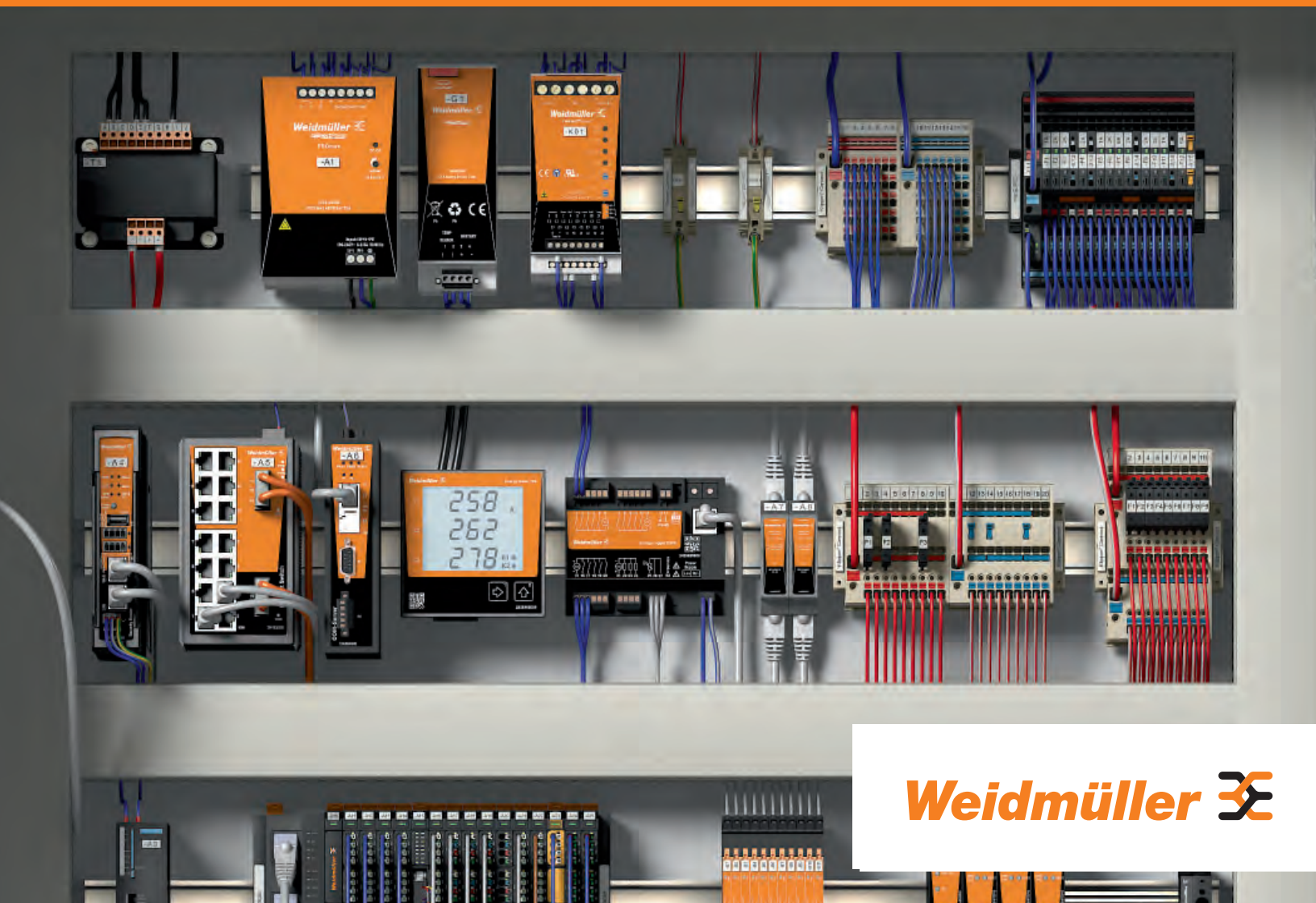
# Smart Industrial Connectivity

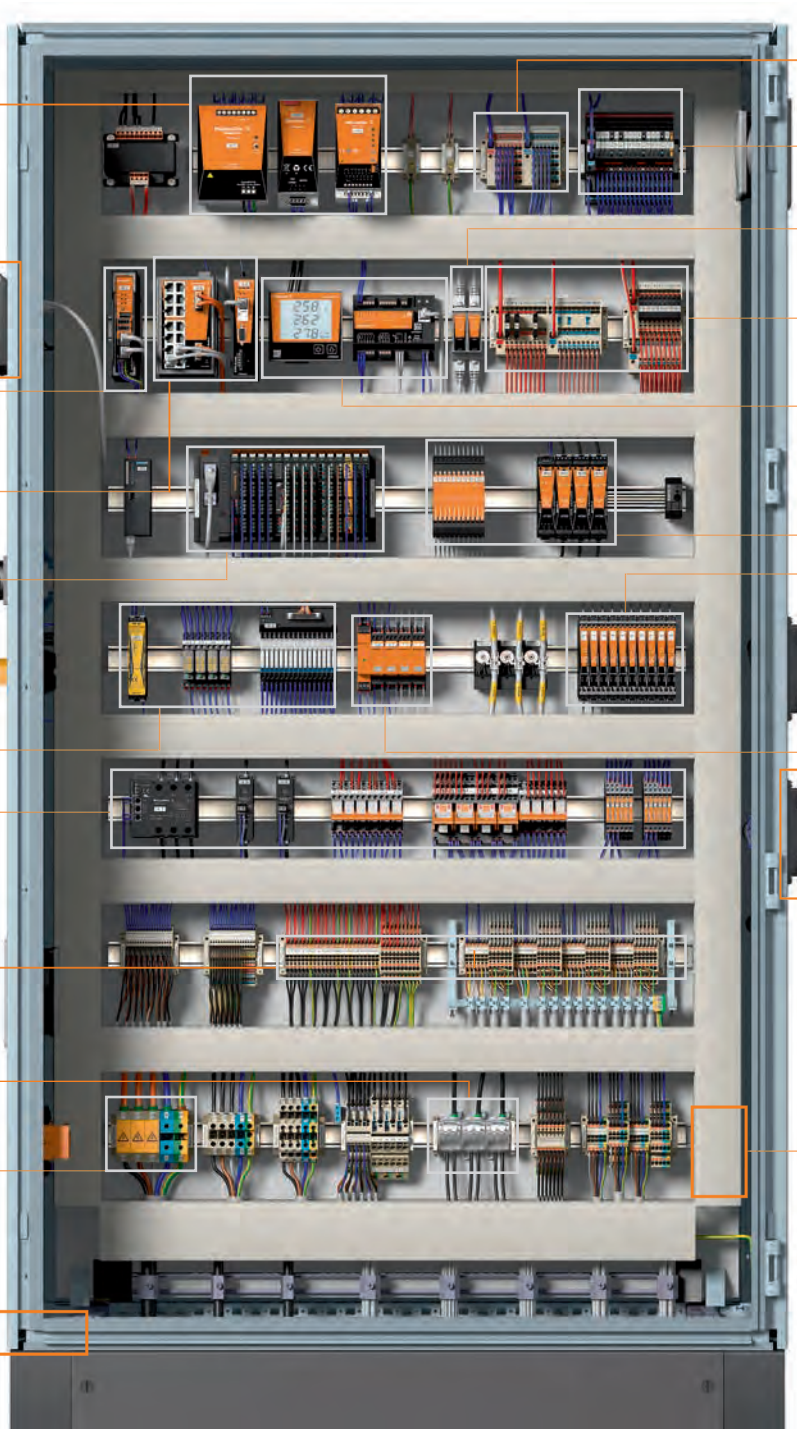
## Short Form Catalog

North America




Weidmüller

# Weidmuller – Your Solutions Partner in Industrial Connectivity




## Configuration Software

### Weidmuller Configurator

- Simplifies configuration and ordering for extra efficiency in panel planning, installation and operation
- Minimization of failures
- User-friendly
- Easy documentation

### Product Configuration/ Selection Software

- Competitive cross-reference database
- Configure custom PCBs, rectangular connectors, Ethernet cabling and connectors, SAI cordsets and connectors

# Smart Industrial Connectivity
# Short Form Catalog
North America Version 2023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# Weidmüller

## Who We Are

As knowledgeable experts, we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data.

Be it automobile manufacturing, electricity production or water management - hardly any of today's industries can do without electronics and electrical connectivity. In this internationalized, technologically changing world, the complexity of requirements is rapidly increasing due to the emergence of new markets. New, more varied challenges have to be overcome, and the solutions to them will not be found in high-tech products alone. Connectivity is the key, whether it involves power, signals and data, demands and solutions or theory and practice. Industrial Connectivity needs connections. And that's precisely what we stand for.

Together we set standards in Industrial Connectivity.

Let's connect.

# Industrial Connectivity Portfolio

## Power

### Power Feed-in & Distribution

- UL 508A SCCR approved
- IEC finger safe
- Single and 3 phase configuration options
- Aluminum and copper conductor acceptance
- TS35 DIN-rail or direct mountable

**Application-specific Terminal Blocks**

### AC Power Monitoring

- For voltage distribution or load monitoring
- Single or 3-phase voltages
- Direct AC current up to 5 Amp
- Isolated analog or relay outputs
- cULus approval

**Energy Monitoring**

## Signal

### Signal Wiring & Marshalling

- Multiple signal configurations
- Extremely compact
- Fast wiring thanks to Push-In technology
- Color-coded pushers ensure safe wiring
- Other termination technologies available

**Application-specific Terminal Blocks**

### Multi-functional Terminals & Fuse Blocks

- Screw, Tension, PUSH IN, SNAP IN, and pluggable terminations
- Fuse, feedthrough, ground, disconnect, electric components, and more

**Fuse Blocks:**

- 5 x 20/25mm, 1¼" x 1/4", automotive, midget fuse and more
- Blown fuse indication
- Low leakage current (< 0.5mA)

**Modular Terminal Blocks**

## Data

### Industrial Ethernet Connectors and Cables

- Cat 6a connectors and cables for all industrial ethernet applications
- PROFINET, SERCOS III, Ethernet IP...
- RJ45, M12 D and X Coded
- LC, SC, SCRJ and ST fiber optic connectors
- Shielded and unshielded assembled cables
- Wide assortment of cut to length bulk cable

**Industrial Ethernet**

### Industrial Ethernet Switches

- Managed and unmanaged
- Gigabit Ethernet and POE
- Support copper (RJ45)
- Fiber optic (SC, ST, LC)
- With relay status contacts
- Metal and plastic housings

**Industrial Ethernet**

## Field

### RockStar® Heavy Duty Connectors

- Reliable power, signal and data transmission
- NEMA 4/4x and IP65 protection
- Complete range of connector inserts and housings
- SNAP IN, PUSH IN, screw, tension clamp and crimp terminations

**RockStar® Heavy Duty Connectors**

### Klippon® Protect Enclosure System

- ATEX; IECEx, cULus, Class 1 Div 2, Zone 1, Zone 2, 21, 22
- IP66 ingress protection (NEMA 4/4X)
- High temp gaskets -50° C to +135° C
- 1 to 4 gland plate configurations
- 304 stainless steel; Fiberglass Reinforced Polyester; Die Cast Aluminum and Polyester families

**Enclosures and Cable Glands**

For hazardous locations, we offer solutions that include the following agency approvals:

Class 1 Div. 2 APPROVED

Class 1 Zone 2 APPROVED

## Control voltage distribution

- Grouped or alternating setup for maximum wiring density
- Potential distribution with fuse protection
- Colored pushers prevent incorrect wiring
- Two cross-connection channels

**Application-specific Terminal Blocks**

## Power Supplies

- Ranges from 0.7A to 40A
- Redundancy options
- AC and DC input voltages
- Single and 3-phase versions
- UPS Control units/ Battery backup units
- DC-to-DC converters

**Power Supplies**

## Circuit Protection

- Branch & Supplementary protection
- Numerous trip curves
- Overcurrent protection
- Electronic protectors
- Thermal and hydraulic solutions
- AC or DC or AC/DC (UC) protection
- UL489 or UL1077 w/ complete accessories

**Circuit and Surge Protection**

## PLC/ DCS System Cabling & Migration Solutions

- Field Wiring termination and control system marshalling for DCS or PLC's
- Universal conversion/ migration platform for updating legacy DCS/PLC to new systems
- Standard and customized pre-assembled cables and Field Termination Assemblies
- Integrated components (fuses, disconnect)
- Compact, space and time-saving

**Interface Units & PLC Solutions**

## Mechanical and Solid-State Relays

- From 6.1mm width
- 1, 2, 4 Pole CO
- Finger-safe connections
- Long life
- Inductive loads
- High frequencies
- Hazardous approval (C1Div2)
- Individual or assembled Kits available
- Optional accessories available

**Relays and Optocouplers**

## Analog Signal Conditioning & Isolation

- 2, 3 and 4 wire models
- 2-channel models and splitters
- Ex isolating barriers (IS)
- HART transparent options
- Configurable input/output
- From 6mm wide per unit
- Intrinsically safe signal conditioners

**Analog Signal Conditioning**

## Remote Access: Maintenance & Cloud Service

- IIoT Applications
- Enhanced security for easy plant or machine access
- Customized system management
- Status monitoring and reporting
- Secure remote maintenance and remote diagnostics

**Remote Maintenance**

## Remote I/O IP67 (SAI)

- Active & Passive interfaces
- Analogue/Digital I/O
- M5, M8, M12 & M23 connections
- Feed through; Profibus; EIP, ProfiNet, EtherCat, IO-Link
- Metal and plastic interfaces and distributors

**Remote I/O**

## Wireless Ethernet

- 5.8GHz
- 2.4GHz (WiFi)
- 900MHz FHSS
- Access Point/Client; Bridge/Router
- 2+ mile range (2.4GHz)
- 20+ mile range (900 FHSS)

**Wireless I/O & Ethernet Connectivity**

## Decentralized Automation & Power Distribution – FieldPower®

Modular IP67 enclosure system to integrate IP20 components in the field:

- Power distribution for conveyors and robots
- Potential distribution with maxGUARD
- Decentralize power supply with PROtop
- Remote I/Os with u-remote

**FieldPower® Power Bus System**

## Cabtite® Through-Wall Cable Entry System

- Modular frames for multiple wire routing configurations
- Maintains IP66 (NEMA 4x & 12)
- Accepts round cable dia. from 0.12"-1.34" and ASI cable
- Integrated strain relief acc. DIN EN 62444
- Accommodates 40 wires in 4.33" of space

**Enclosures and Cable Glands**

## Sensor Actuator Connectors & Cordsets

- M5, M8, M12, M23, 7/8" and valve plug connectors and cordsets
- Wide range of cable types and configurations
- Weld slag resistant and high flex ( >20 million cycles) versions
- Shielded and unshielded
- Plug, panel feed through and board mounted connectors

**Sensor Actuator Interface**

## Over Voltage Protection

- Fully supports North American standards UL 1449 4th Edition
- All Power network grid types and voltages single, two and three phase systems
- Heavy duty, reliable and pluggable arrestor with locking mechanism
- Centralized and wide control window
- Optional remote signaling contact
- Fast DIN-rail mounting by means of special mounting clip

**Surge Protection**

## AC Receptacles

- Simplex and duplex
- GFCI
- UL508 approvals
- Assembly-free
- DIN-rail or panel mountable

**Industrial Connectivity**

## OMNIMATE® Power

Connections for maximum performance and safety requirements. Application-specific scalability of the connections and unrestricted use up to 600 V in accordance with UL standards.

**PCB terminals and connectors**

## maxGUARD

- Load monitoring and DC voltage distribution combined
- Class 2 approved
- Modular system
- Remote reset of loads
- Disconnect and easy cross connect options

**Electronic Load Monitoring**

## Surge Protection

- For analog, status and network signals
- Discharges up to 20kA (8/20µs)
- Pluggable, replaceable SPD versions
- Local and remote status indication
- SPD element testing option
- Single, multi-stage and floating signal protection
- Integrated ground contact in base element

**Surge Protection**

## OMNIMATE® Signal

User-friendly connection technologies from clamping yoke screw connection to PUSH In spring connection plus the innovative, award winning SNAP IN connection.

**PCB terminals and connectors**

## Wireless I/O

- 900MHz FHSS
- Transceiver and unidirectional units
- Full 1W of broadcast power
- Modular I/O design
- 20+ mile range
- Meshing and self healing networks

**Wireless I/O and Ethernet Connectivity**

## Lightning & Surge Protection

- RS422
- RS232
- Coax data networks
- Ethernet (Cat 5 & 6)
- POE

**Surge Protection**

## OMNIMATE® Data

Data connectors and sockets with future-proof transmission properties. Innovative connection system for industry-compatible design and high quality individual components for increasing data rates.

**RJ45, USB & D-Sub Connectors**

## u-mation Automation Solutons

*The easy way to IIOT*

**Control systems | u-control**

Automation with the compact u-control and innovative engineering

- Modular design
- Maximum flexibility for your individual application
- Web- & codesys-based engineering tools u-create

**I/O systems | u-remote**

Automation with the flexible and innovative I/O system u-remote

- Modular & space-saving
- More than 10 fieldbus protocols
- Over 80 I/O-modules
- Integrated web server & diagnostic functions

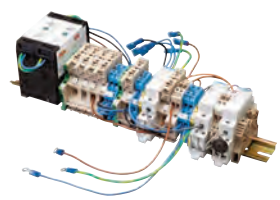
**Visualization systems | u-view**

Easy machine visualization with u-view touch panels, IPCs and the visualization software u-create PROCON-WEB

- Touch Panels & Industrial PCs
- u-create PROCON-WEB
- HTML5-based visualization
- HMI up to SCADA applications

**Automation**

## Assembly Services - Engineered Solutions



### Rail Assemblies

- DIN-rail assemblies
- Customized marking options
- Wired and tested assemblies
- Product kitting and bundling

### Engineered & Populated Enclosures

- ATEX; IECEx; CULus; Class 1 Div 2, Zone 1, Zone 2, 21, 22
- Wireless assemblies
- Custom junction boxes
- Design, assembly and wired solutions
- Application Specific Solutions
  EX: DCS, I/O Marshalling Cabinets
  Combiner boxes for PV systems

**Engineered Solutions**

# Tools

## Cutting

Cut copper and aluminum cables and wire up to 1260 kcmil

**KT 8**
- Cuts wire up to 6 AWG
- Blade shape prevents wire distortion

**KT 45R**
- One-hand operation
- Suitable for non-pinch cutting of copper and aluminium conductors

## Stripping

Quick and accurate stripping with no damage to single conductors

**Stripax® Ultimate**
- Strip hard, halogen-free cable insulation with ease from AWG 26... 10

**AM 25 and AM 35**
- Strips PVC insulated cables, 0.18"...1.0" diameter
- Lengthwise or spiral cuts

## Screwdrivers

- Hardened high-alloy steel tips
- Soft-finish grip handles for comfortable handling
- Insulated for 1,000V safety rating
- Manual torque screwdriver

## Crimping

Precise crimp with minimal force

**Stripax® Family – 3-in-1 Tool**
- Cuts, strips and crimps linked wire ferrules from 20...14 AWG
- For PVC insulated wire

**PZ 6 Roto L**
- Crimps wire-end ferrules from 24...10 AWG
- Wire insertion from side or front

## Automatic Machines

Our automatic machines optimize installation time and streamlines the manufacturing process

- Cutting Machines
- Stripping Machines
- Crimping Machines
- Stripping and Crimping Machines

## Ferrules — insulated and non-insulated & Cable Lugs

Wire end ferrules ensure a secure and reliable connection

- 3 color codes available
- Loose, strips, reels and assortments from 24 AWG – 300 MCM
- UL Listed approval when installed with Weidmuller tools.

Tools

Tools

# Marking Systems

## Printing Systems

**Thermal MultiMark**
- MultiMark is the smart all-in-one solution for the entire cabinet
- Quick & easy thermal printing

**PrintJet Connect**
- Weidmuller's industry-leading marking system
- Built in card stacker (50 cards)
- Print on plastic or metal cards

## Marker Format Types

**Terminal Markers**
- Terminal blank identifiers for Weidmuller terminals and other manufacturers' terminals

**Wire and Cable Markers**
- Heat Shrink
- Self-adhesive Wrap Around
- Stainless steel

**Device Markers**
- Placard and electrical
- Actuator and contactor
- E-stop and push button
- Relays and circuit breakers

Marking Systems

# Weidmuller Services & Promotions

## Weidmuller Configurator

As a software solution, the Weidmuller Configurator not only offers support for individual steps, but for panel building as an entire, seamless process, building a bridge from planning through to operation.

- Compatible with E-Cad Programs
- Fast Delivery Service – Quote in minutes - 10 Day Delivery on Assembled Din Rails
- Minimization of failures
- User-friendliness
- Easy documentation
- Greater flexibility in your project planning

More information: www.weidmuller.com/wmc

## Engineering & Visualization Tools

## The easy way to your IIOT-ready HMI

### u-create studio

- Fully-fledged engineering tool, developed using the proven CODESYS system
- CODESYS-based development environment in accordance with IEC 61131-3
- C/C++ environment for flexible, object-oriented programming of applications
- Open Linux structure simplifies installation of individual software modules, configuration, diagnostics and simulation
- OPC UA server for M2M communication, EtherCAT & CANopen fieldbus master/ slave, and Modbus TCP (Client/Server)
- Compatible with u-control 2000 studio and u-remote hardware

### u-create web

- u-create web allows for flexible engineering in a web-based programming environment
- Uses standardized web technologies such as HTML5 CSS, and JavaScript
- Platform and device-neutral programming, configuration and system parametrization in accordance with IEC 61131-3
- Compatible with the u-control 2000 web and u-remote hardware
- IoT module Node-RED, u-link, OPC UA server and smart visu preinstalled
- Can be extended with additional software modules, for example: OPC UA Client, MQTT and other cloud services (via Node-RED)

### u-create PROCON-WEB (Embedded & SCADA versions)

- Minimal hardware requirements for easy deployment to third party applications based on Linux or container technology
- PROCON-WEB Embedded Systems can be implemented independently of hardware and operating system.
- Web-based visualization, support for mobile devices, and open communication standards increase flexibility.

- PROCON-WEB SCADA simplifies the project planning of modern multi-touch-capable user interfaces for automation. The integrated web server enables the use of all HTML5-capable browsers without special plug-ins. The comprehensive portfolio of communication drivers facilitates connection with all common control systems.
- Predefined control elements, user and rights management, multilingual, data recording, recipe management, alarm and message processing, and many other features offered.
- Features such as the class-instance concept and automation objects with structure support speed up project planning. Scripting and customizable control elements increase flexibility for special requirements.

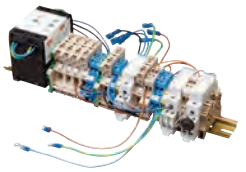
### u-view

- Touch panels with excellent image quality and high-performance processors that are ideal for industrial applications
- The u-view high-performance IPCs and Panel PCs enable the flexible control, operation and monitoring of machines and systems. They are highly reliable and designed for state-of-the-art visualization, control, and IoT applications.

More information: www.weidmuller.com/u-mation

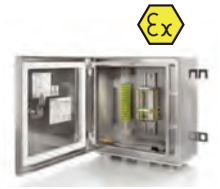
## Engineered Solutions

### Rail Assemblies



- DIN-rail assemblies
- Customized marking options
- Wired and tested assemblies
- Product kitting and bundling

### Assembly Services - Engineered Solutions



- ATEX; IECEx; CULus; Class 1 Div 2, Zone 1, Zone 2
- Wireless assemblies
- Custom junction boxes
- Design, assembly and wired solutions
- Application Specific Solutions
  EX: DCS, I/O Marshalling Cabinets
  Combiner boxes for PV systems

### Custom cable assemblies

- Consisting of either standardized or specific connecting lines - we provide you with the optimal solution for every cabling task
- Various individualization levels to meet your needs in every planning situation
- Demand-oriented cable lengths, plugs, marking, or colors from a batch size of one
- Compatible for use in robots and with recyclable, halogen-free cables
- Create your own variations with the aid of our online configurator

More information: www.weidmuller.com/assemblyservices

## OMNIMATE® Services

- Develop your devices with unique efficiency. Our OMNIMATE® Services considerably reduce your project costs and time-to-market. They support all project stages: specifications preparation, development and design, approva, and series production. Whether you need to obtain know-how or to find the right components for your device, you can rely on our expertise.

### AppGuide

- Based on your application, the AppGuide will show you a representative range of products for the different functions of your device. Select the application and product group, then order and receive the product.

### 72-hour sample service

- Order your design-in samples, quickly and easily in our online product catalog. Use the free 72-hour sample service for OMNIMATE®. We deliver your samples to the desired location within 72 hours.

More information: www.weidmuller.com/omnimate-services

## HDC Speedline® 48hr Quick Ship

### Speedline® Service

- Guarantees the availability of our most popular Heavy Duty Connector (HDC) products, such as Weidmuller's RockStar® Housings, Inserts and Cable Glands, so OEMs can make last-minute connections fast!

More information: www.weidmuller.com/speedline

## Service and Support

More information: www.weidmuller.com/service

# Industry Applications

## Our Industries

Our industrial environment is full of connections that need to be connected, controlled and optimized. We are absolutely committed to always providing the best connection possible.

This is not only demonstrated in our products but also in the human connections we maintain: We develop solutions in close cooperation with our customers which meet the full measure of all requirements of their particular industrial environment.

### Markets & Industries

**Distribution**
- Service excellence for our customers

**Automotive & Robotics**
- Digitization and flexibilization of vehicle production along the value stream

**Food & Beverage + Packaging**
- In food and beverage production and in the packaging industry, there are strict requirements in terms of hygiene standards, degrees of protection and corrosion resistance. Improve your precise performance with our innovative solutions.

**Intralogistics**
- Storage and conveyors combined with sorting and picking tasks are the essential parts of intralogistics. Experience the world of predictive maintenance with Weidmüller industrial analytics.

**Elevator & Escalator**
- Going up and down in a reliable, energy-efficient and data-driven way

**Wind**
- Operate wind turbines more efficiently with our tailored solutions for maximum profitability

**Traditional Power**
- In future energy mixes, traditional power generation will remain an important source of energy. We provide the products and solutions to support efficient and safe power generation.

**Transmission & Distribution**
- We cover a wide range of applications: from connectivity solutions ensuring the best tradeoff between safety and flexibility, to outstanding electronic components and analytics to meet the most demanding requirements.

**Marine**
- Comprehensive connectivity solutions that secure the extensive possibilities of digitalization

**Railway**
- Design the transport of the future with our modular systems

**Oil & Gas**
- Securing operations with networked solutions for the process industry

**Device Manufacturer**
- Optimal connectivity solutions for the building blocks of tomorrow's automated world

**Water & Wastewater Treatment**
- Efficient water treatment: Application-specific solutions for the water and wastewater industry

*"As a reliable and innovative partner, we always strive to guide our customers along their market challenges and provide them with smart, future-proof solutions and products. That's why we get up every morning."*

*Dr.-Ing. Rolf Sohrmann,*
*VP Global Segment Management*

Experience how Weidmüller solutions increase the efficiency, reliability and quality in various industries and applications.

More information: www.weidmuller.com/industry

# Connectivity

**Well conceived connections increase your efficiency. Our products create added value in planning, installing and operating.**

# Heavy Duty Rectangular Connectors

Connectivity: Field Wiring

## Exceptional performance in any environment

RockStar® connectors ensure safe and reliable transmission of power, signals and data in industrial environments - from the control cabinet to the field

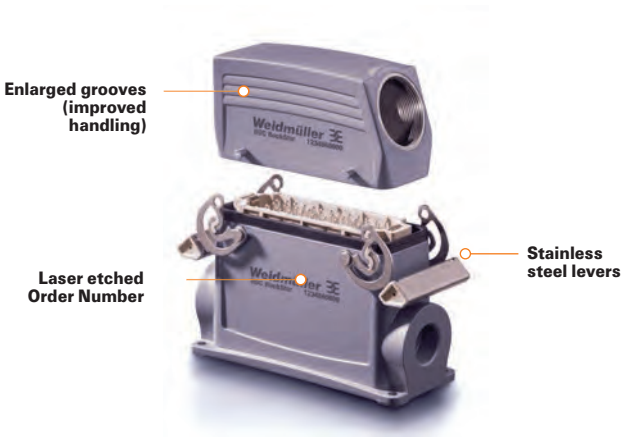
Outside the control cabinet, the world of connectors is rougher. Hard types are in demand here that are just as immune to extreme industrial or climatic influences as they are to electromagnetic interference: Genuine RockStars, who master the complete range of energy, signal and data transmission with absolute performance and power. Welcome to the RockStar® family of heavy-duty connectors.

# Heavy Duty Rectangular Connectors

Weidmuller offers a compact, quick-disconnect heavy-duty industrial rectangular connector series.

**HDC Assembly features:**

- Protection class: IP65 and NEMA 4X
- Scratch resistant, corrosion proof housing plating
- Rust proof stainless steel levers and latching tabs
- Laser etched Order Numbers
- Pre-attached bulkhead gaskets




## HA Series Compatible

### SlimLine Series

### SlimLine HDC Kits

### Kits Include These Components

| Screw-Clamp Order Number | Poles | Description | Inserts (Screw) Female Male | Bulkhead Order Number | Hood Order Number | Gland Order Number |
|---|---|---|---|---|---|---|
| **1712560000** [1] | 3 + Grnd | HA 3 Pin Kit, w/PG11 top entry, metal | F-1498200000 M-1498100000 | **1497600000** | **1652470000** | **1569080000** |
| **1712570000** | 3 + Grnd | HA 3 Pin Kit, w/PG11 top entry, plastic | F-1498200000 M-1498100000 | **1652410000** | **1652380000** | **1568990000** |
| **1712600000** | 4 + Grnd | HA 4 Pin Kit, w/PG11 top entry, plastic | F-1498400000 M-1498300000 | **1652410000** | **1652380000** | **1568990000** |

[1] Bulkhead Housing and Hood are metal; Glands are brass

| Housings | Size | Order Number | Bulk Head | Order Number | Hood | Cable Entry | |
|---|---|---|---|---|---|---|---|
| | 1 | **1497600000** | HDC 04A ALU | **1788820000** | HDC 04A TOLU 1M20G | top | M20 |
| | 1 | **1788830000** | HDC 04A SLU 1M20G | **1652470000** | HDC 04A TOLU 1PG11G | top | PG11 |
| | 2 | **1021450000** | HDC 10A ALU SL | **1967660000** | HDC 10A TSLU 1M20G | Side | M20 |
| | 5 | **1664920000** | HDC 16A ALU | **1041760000** | HDC 16A TSLU 1M20G | Side | M20 |
| **Inserts** | **Size** | **Male** | | **Female** | | **Pole count** | **Connection Type** |
| | 1 | **1498100000** | HDC HA 3 MS | **1498200000** | HDC HA 3 FS | 3 | Screw |
| | 1 | **1498300000** | HDC HA 4 MS | **1498400000** | HDC HA 4 FS | 4 | Screw |
| | 2 | **1650610000** | HDC HA 10 MS | **1650620000** | HDC HA 10 FS | 10 | Screw |
| | 5 | **1650770000** | HDC HA 16 MS | **1650780000** | HDC HA 16 FS | 16 | Screw |
| | 5 | **1896830000** | HDC HA 16 MT | **1896800000** | HDC HA 16 FT | 16 | Tension Clamp |

# HE Series Compatible

## Standard Series

Bulkhead Housing

Female Insert

Male Insert

Hood

Gland

## Standard HDC Kits

## Kits Include These Components

| Screw-Clamp Order Number | PUSH IN Order Number | Poles | Description | Inserts (Screw) Female Male | Inserts (PUSH IN) Female Male | Bulkhead Order Number | Hood Order Number | Gland Order Number |
|---|---|---|---|---|---|---|---|---|
| **1712460000** | | 6 + Grnd | HE 6 Pin Kit, w/PG16 side entry, Alum. | F-1200200000 M-1200000000 | | **1202100000** | **1652520000** | **1569100000** |
| **1712660000** | | 6 + Grnd | HE 6 Pin Kit, w/PG16 top entry, Alum. | F-1200200000 M-1200000000 | | **1202100000** | **1652640000** | **1569100000** |
| **1712510000** | | 10 + Grnd | HE 10 Pin Kit, w/PG16 side entry, Alum. | F-1204100000 M-1203900000 | | **1205000000** | **1654070000** | **1569100000** |
| **1712670000** | | 10 + Grnd | HE 10 Pin Kit, w/PG16 top entry, Alum. | F-1204100000 M-1203900000 | | **1205000000** | **1654220000** | **1569100000** |
| **1712520000** | **1027640000** | 16 + Grnd | HE 16 Pin Kit, w/PG21 side entry, Alum. | F-1207700000 M-1207500000 | F-1873560000 M-1873570000 | **1208600000** | **1656480000** | **1569110000** |
| **1712680000** | **1061750000** | 16 + Grnd | HE 16 Pin Kit, w/PG21 top entry, Alum. | F-1207700000 M-1207500000 | F-1873560000 M-1873570000 | **1208600000** | **1656590000** | **1569110000** |
| **1712530000** | **1061780000** | 24 + Grnd | HE 24 Pin Kit, w/PG21 side entry, Alum. | F-1211300000 M-1211100000 | F-1873580000 M-1873590000 | **1212400000** | **1661230000** | **1569110000** |
| **1712690000** | **1061800000** | 24 + Grnd | HE 24 Pin Kit, w/PG21 top entry, Alum. | F-1211300000 M-1211100000 | F-1873580000 M-1873590000 | **1212400000** | **1661370000** | **1569110000** |

| Housings | Size | Order Number | Bulk Head | Hood | | Cable Entry | |
|---|---|---|---|---|---|---|---|
| | 3 | **1202500000** | HDC 06B ADLU | **1788100000** | HDC 06B TSLU 1M20G | Side | M20 |
| | 3 | **1202100000** | HDC 06B ALU | | | | |
| | 3 | **2488560000** | HDC 06B ALU N | | | | |
| | 3 | **1788170000** | HDC 06B SDLU 2M20G | | | | |
| | 4 | **1205000000** | HDC 10B ABU | **1787550000** | HDC 10B TSBU 1M25G | Side | M25 |
| | 4 | **2488580000** | HDC 10B ABU N | | | | |
| **HE Inserts** | | **Male** | | **Female** | | **Pole count** | **Connection Type** |
| | 3 | **1200000000** | HDC HE 6 MS | **1200200000** | HDC HE 6 FS | 6 | Screw |
| | 3 | **1745820000** | HDC HE 6 MT | **1745760000** | HDC HE 6 FT | 6 | Tension Clamp |
| | 3 | **1873530000** | HDC HE 6 MP | **1873520000** | HDC HE 6 FP | 6 | Push In |
| | 4 | **1203900000** | HDC HE 10 MS | **1204100000** | HDC HE 10 FS | 10 | Screw |
| | 4 | **1745830000** | HDC HE 10 MT | **1745770000** | HDC HE 10 FT | 10 | Tension Clamp |
| | 4 | **1873550000** | HDC HE 10 MP | **1873540000** | HDC HE 10 FP | 10 | Push In |
| | 6 | **1207500000** | HDC HE 16 MS | **1207700000** | HDC HE 16 FS | 16 | Screw |
| | 6 | **1745840000** | HDC HE 16 MT | **1745780000** | HDC HE 16 FT | 16 | Tension Clamp |
| | 6 | **1873570000** | HDC HE 16 MP | **1873560000** | HDC HE 16 FP | 16 | Push In |
| | 8 | **1211100000** | HDC HE 24 MS | **1211300000** | HDC HE 24 FS | 24 | Screw |
| | 8 | **1745850000** | HDC HE 24 MT | **1745790000** | HDC HE 24 FT | 24 | Tension Clamp |
| | 8 | **1873590000** | HDC HE 24 MP | **1873580000** | HDC HE 24 FP | 24 | Push In |
| **HEE Inserts** | | | | | | | |
| | 6 | **1826790000** | HDC HEE 32 MC | **1826800000** | HDC HEE 32 FC | 32 | Crimp |
| | 8 | **1826770000** | HDC HEE 46 MC | **1826780000** | HDC HEE 46 FC | 46 | Crimp |
| **HD Inserts** | | | | | | | |
| | 6 | **1601710000** | HDC HD 40 MC | **1601730000** | HDC HD 40 FC | 40 | Crimp |
| **HDD Inserts** | | | | | | | |
| | 4 | **1651170000** | HDC HDD 42 MC | **1651180000** | HDC HDD 42 FC | 42 | Crimp |

## HDC KITS - continued

| Specifications | |
|---|---|
| UL/CSA Electrical Ratings: | 600V/20A/20-14AWG |
| Material: | |
| Inserts: | Glass Fiber Reinforced Polycarbonate |
| Housings: | HA – Polyamide Plastic (IP65)<br>HE – Diecast Aluminum Alloy (IP65) |
| Levers: | Stainless Steel |
| Temperature Range: | -40°C...125°C |

## HQ Series

| Housings | | Bulkhead | | Hood | Description | | |
|---|---|---|---|---|---|---|---|
| | HQ Series | **1003040000** | HDC HQP ALU | **1003070000** | HDC HQP TOLU 1PG16 | | |
| **Inserts** | | **Male** | | **Female** | | **Pole count** | **Connection Type** |
| | HQ Size | **1912440000** | HDC HQ 5 MC | **1912460000** | HDC HQ 5 FC | 5 | Crimp |
| | HQ Size | **1919970000** | HDC HQ 8 MC | **1919980000** | HDC HQ 8 FC | 8 | Crimp |
| | HQ Size | **1003170000** | HDC HQ 4/2 MC | **1003160000** | HDC HQ 4/2 FC | 4/2 | Crimp |
| | HQ Size | **1003210000** | HDC HQ 17 MC | **1003200000** | HDC HQ 17 FC | 17 | Crimp |

## HSB Series - 35A per contact, Size 6 only

| Inserts | | Bulkhead | Description | Hood | Description | Pole count | Connection Type |
|---|---|---|---|---|---|---|---|
| | HSB Series | **1498700000** | HDC HSB 6 MS | **1498900000** | HDC HSB 6 FS | 6 | Screw |

## ModuPlug

The modular system RockStar® ModuPlug integrates more functions with less weight and space requirements in the connector.

### ModuPlug Frames

| | Mating side one | | Mating side two | |
|---|---|---|---|---|
| **Size** | **Description** | **Order Number** | **Description** | **Order Number** |
| 2 | HDC MF 6B AB | **1428920000** | HDC MF 6B BA | **1428940000** |
| 3 | HDC MF 10B AC | **1428960000** | HDC MF 10B CA | **1428980000** |
| 6 | HDC MF 16B AD | **1429010000** | HDC MF 16B DA | **1429030000** |
| 8 | HDC MF 24B AF | **1429050000** | HDC MF 24B FA | **1429070000** |

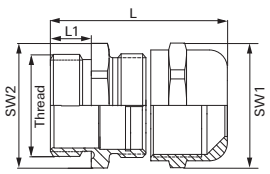
### Modules

| Blank | Female Side | | Male Side | |
|---|---|---|---|---|
| **Order Number** | **Description** | **Order Number** | **Description** | **Order Number** |
| **1429040000** | HDC MHD 12 FC | **1428850000** | HDC MHD 12 MC | **1428840000** |
| | HDC MHD 36 FC | **1428870000** | HDC MHD 36 MC | **1428860000** |
| | HDC MBUS 2 FC | **1429020000** | HDC MBUS 2 MC | **1428990000** |
| | HDC MHE 5 FQT | **2636190000** | HDC MHE 5 MQT | **2636180000** |
| | HDC MHE 6 FC | **1429370000** | HDC MHE 6 MC | **1429360000** |
| | HDC MHE 6P FC | **1505660000** | HDC MHE 6P MC | **1505650000** |
| | HDC MHE 8 FC | **1428890000** | HDC MHE 8 MC | **1428880000** |
| | HDC MHE 20 FC | **1428930000** | HDC MHE 20 MC | **1428910000** |
| | HDC MHX 3 FC | **1429350000** | HDC MHX 3 MC | **1429340000** |
| | HDC MHX 4P FC | **1428970000** | HDC MHX 4P MC | **1428950000** |
| | HDC MHP 100 FC | **1429080000** | HDC MHP 100 MC | **1429060000** |
| | HDC MHP 200 FC | **2549260000** | HDC MHP 200 MC | **2548900000** |

# Accessories

| Crimp Contacts | Compatible with | Size | Male | Description | Female | Description |
|---|---|---|---|---|---|---|
| | HD,HDD,HQ | 0.35 | **1651520000** | HDC-C-HD-SM0.14-0.37AG | **1651570000** | HDC-C-HD-BM0.14-0.37AG |
| | HD,HDD,HQ | 0.5 | **1651530000** | HDC-C-HD-SM0.5AG | **1651580000** | HDC-C-HD-BM0.5AG |
| | HD,HDD,HQ | 1 | **1601750000** | HDC-C-HD-SM0.75-1.00AG | **1601760000** | HDC-C-HD-BM0.75-1.00AG |
| | HD,HDD,HQ | 1.5 | **1651550000** | HDC-C-HD-SM1.5AG | **1651600000** | HDC-C-HD-BM1.5AG |
| | HE, HEE, HQ | 1.5 | **1200700000** | HDC-C-HE-SM1.5AG | **1201300000** | HDC-C-HE-BM1.5AG |
| | HE, HEE, HQ | 2.5 | **1200800000** | HDC-C-HE-SM2.5AG | **1201400000** | HDC-C-HE-BM2.5AG |
| **Coding Pin** | | | | | | |
| | | 1 | **1471500000** | DSTV COBU5 | | |

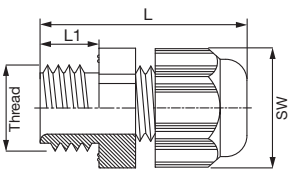
# Cable Glands and Adapters




## Cable Glands, Metal - IP68

| Type metric | Thread-size | Wire Range-dia (mm) | L/L1 (mm) | SW1/SW2 (mm) | Order Number |
|---|---|---|---|---|---|
| VG 11-MS68 | PG 11 | 5 - 10 | 28.5 / 6 | 20 | **1569080000** |
| VG 13.5-MS68 | PG 13.5 | 6 - 12 | 29.5 / 6.5 | 22 | **1569090000** |
| VG 16-MS68 | PG 16 | 10 - 14 | 29.5 / 6.5 | 24 | **1569100000** |
| VG 21-MS68 | PG 21 | 13 - 18 | 33.5 / 7 | 30 | **1569110000** |
| VG 29-MS68 | PG 29 | 18 - 25 | 37.5 / 8 | 40 | **1569120000** |

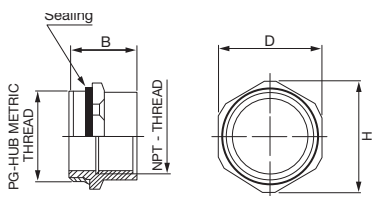
| Specifications | |
|---|---|
| Material: | Brass, nickel-plated |
| Temperature Range: | -20°C...60°C |
| Protection: | IP68 |




## Cable Glands, Plastic - IP68

| Type metric | Thread-size | Wire Range-dia (mm) | L/L1 (mm) | SW (mm) | Order Number |
|---|---|---|---|---|---|
| VG 11-K68 | PG 11 | 5 - 10 | 37 / 8 | 22 | **1568990000** |
| VG 13.5-K68 | PG 13.5 | 6 - 12 | 39 / 9 | 24 | **1569000000** |
| VG 16-K68 | PG 16 | 10 - 14 | 42.5 / 10 | 27 | **1569010000** |
| VG 21-K68 | PG 21 | 13 - 18 | 48 / 11 | 33 | **1569020000** |
| VG 29-K68 | PG 29 | 18 - 25 | 53 / 11 | 42 | **1569030000** |

| Specifications | |
|---|---|
| Material/Color: | Polyamide 6/White |
| Temperature Range: | -30°C...80°C |
| Protection: | IP68 |



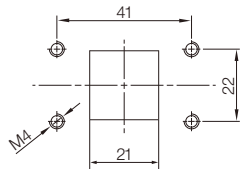

## Cable Adapters - PG to NPT

| Type | Thread-size | NPT | B (mm) | H (mm) | D (mm) | Order Number |
|---|---|---|---|---|---|---|
| PG 16/NPT 1/2" | PG 16 | 1/2" | 22.8 | 29.2 | 27 | **1712360000** |
| PG 21/NPT 3/4" | PG 21 | 3/4" | 25 | 35.2 | 32 | **1712370000** |
| PG 29/NPT 1" | PG 29 | 1" | 30 | 43.5 | 40 | **1712390000** |
| PG 36/NPT 1 1/4" | PG 36 | 1 1/4" | 32 | 55 | 50 | **1712380000** |

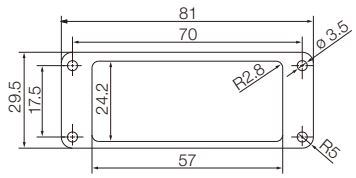
| Specifications | |
|---|---|
| Material: | Brass, nickel-plated |
| Temperature Range: | -40°C...100°C |
| Protection: | IP68 |

## HDC Panel Cut-out Dimensions

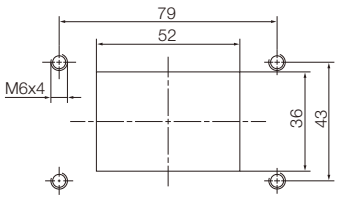
**Size 1**



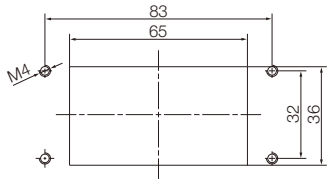

**Size 2**



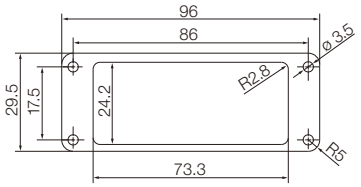

**Size 3**



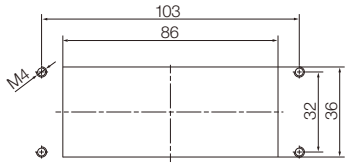

**Size 4**



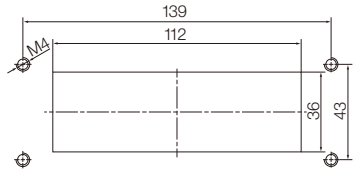

**Size 5**




**Size 6**




**Size 8**




* Additional configurations available.

Heavy duty connector application.

# Service Interfaces

Quick and safe access to the control elements and functional electronics in the cabinet at any time – without the need to open the door!

### Features

- 100 % compatible to market standard
- RJ45 inserts according to latest Cat. 6A standard
- Clear identification thanks to large labelling surfaces
- Optional shielding via frame's earthing screw for data and signal inputs
- Different security levels using various closing mechanisms, e.g. with knob. cabinet key or genuine security lock
- Space-saving and flexible modular design

FrontCom® Vario

● indicates inclusion in the kit

## FrontCom® Vario

| | | | Kit Order Number | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Order Number | Item Type | Description | 7940111823 | 7940111824 | 7940111825 | 7940111826 | 7940111827 | 7940111828 | 7940111829 | 7940111830 | 7940111831 | 7940111832 | 7940111833 |
| 1450530000 | IE-FC-SFM-KNOB | Single Frame | ● | | | | | ● | | | | | |
| 2003170000 | IE-FC-DFM-KNOB | Double Frame | | ● | ● | ● | | | | ● | | ● | |
| 2669630000 | IE-FC-SFM-KNOB-4X | Single Frame NEMA 4x | | | | | | | ● | | | | |
| 2669640000 | IE-FC-DFM-KNOB-4X | Double Frame NEMA 4X | | | | | ● | | | | ● | | ● |
| 1450620000 | IE-FC-SP-PWU/2ST | Insert Plate, shielded, 1x Power, 2x Data | ● | | | | | | | | | | |
| 1543710000 | IE-FC-IP-PWU/1ST/CB | Insert Plate, unshielded, 1x Power, 1x Data, 1x fuse | | | | | | ● | ● | | | | |
| 1450800000 | IE-FCI-PWS-US | Shielded Single U.S. Power outlet | ● | | | | | ● | ● | | | | |
| 2004810000 | IE-FC-DSP-CI/3A/2ST/1D9 | Shielded GFCI double power outlet | | ● | ● | | | | | ● | ● | ● | ● |
| 2003370000 | IE-FC-DIP-CI/3A/2ST/1D9 | Unshielded GFCI double power outlet | | | | ● | ● | | | | | | |
| 1962840000 | IE-BI-RJ45-C | RJ45 coupler | ● | ● | ● | ● | ● | | | ● | ● | ● | ● |
| 1963830000 | IE-BI-RJ45-FJ-P | Insert socket, RJ45 PROFINET | | | | | | ● | ● | | | | |
| 1487920000 | IE-BI-USB-3.0-A | USB | | ● | | ● | ● | | | | | | |
| 1543690000 | IE-FCI-PWCB-3A | 3 amp fuse | | ● | | | | ● | ● | ● | ● | | |
| 7940111821 | CIR BRKR THRM 5A | 5 amp fuse | | | ● | | | | | | | | |
| 1450820000 | IE-FC-PWPC | Touch-safe Plate | ● | | | | | ● | ● | | | | |

## Front Panel Interface FrontCom®

| Type | Description | Order Number |
|---|---|---|
| IE-FCM-RJ45-C | RJ45 Coupling | 1018790000 |
| IE-FCM-RJ45-FJ-A | TIA-A Module | 1018810000 |
| IE-FCM-RJ45-FJ-B | TIA-B Module | 1018820000 |
| IE-FCM-RJ45-FJ-P | Profinet Ethernet Module | 1018830000 |
| IE-FCM-USB-A | USB Coupling | 1018840000 |
| IE-FCM-USB-AB | USB Coupling | 1222550000 |

### Accessories

| | Type | Qty | Order Number |
|---|---|---|---|
| **Spare key** | | | |
| | IE-FC-KEY | 1 | 1465930000 |
| **Markers** | | | |
| Silver | SM 27/18 K MC NE SI | 80 | 1713760000 |
| Light grey | SM 27/18 K MC NE GR | 80 | 1073340000 |
| White | SM 27/18 K MC NE WS | 80 | 1707270000 |
| For touch-safe protection and insert plates | ESG 7/20 SIRIUS MC NE WS | 200 | 1736181044 |
| **Touch-safe protection** | | | |
| Touch-safe protection | IE-FC-PWPC | 1 | 1450820000 |

# Industrial and Hazardous Certified Enclosures

Enclosure systems and components

## Always reliable protection

Our Klippon® Protect enclosure system covers all approvals required for use in industrial and hazardous areas. In addition, it can be optimally adapted to your requirements. We complete our offer with individual services in order to provide you with optimal process support.

At Weidmuller, we have the resources and capabilities to design and build both industrial and ATEX, IECEx, cULus Class1 Div 2, Zone1, Zone 2, 21, 22 certified enclosures.

## We handle every aspect of the process:

- Terminal wiring
- Initial design specifications
- Assembly and installation of box elements
- Specifying, ordering and integrating third-party products
- Adding elements such as mounting plates and holes or knockouts for cable glands
- Providing full ATEX, IECEx, Class1 Div 2 certification and documentation

## Klippon® KTB & STB stainless steel enclosures

Klippon® sheet steel enclosures provide outstanding high-performance features to satisfy the toughest demands within the harshest environments.

- NEW: Klippon® EBi
- NEW: Klippon® EBx

## Klippon® K aluminum enclosures

The fully featured Klippon® K aluminium enclosures are designed for use in a wide variety of electrical installations - from industrial applications to harsh environmental conditions.

## POK Glass-fiber reinforced polyester enclosures

Klippon® POK enclosures are made from high-quality glass-fibre reinforced polyester. They are suited for applications and environments where corrosion and impact resistance, as well as a high IP protection, are required. The range is also designed and certified for use in hazardous areas.

## Klippon® FPC, MPC & TBF Polycarbonate and Polyester enclosures

The enclosures in the TBF range are made from sturdy glass-fibre reinforced polyester. They offer a universal solution for protection of components such as controllers, measuring instruments, valves and other devices. The TBF enclosures are available with either transparent or grey lids.

# Klippon® TB MH

## Robust universal enclosures for harsh environments

### Benefits

- Various locking systems for your individual requirements to guarantee safe locking of your enclosures
- Flat silicone gaskets safely withstand harsh environments and are designed to conform to the contour of the enclosure
- Optimal vibration protection due to self-securing earth stud made of brass or stainless steel
- Vibration and shock resistant pre-fitted welded mounting lugs - designed to be secure in operation
- Our utility types for internal threaded sockets are designed to ensure the safe and tight fastening of gland plates

The Klippon® TB range of enclosures delivers an outstanding performance in the severest conditions and meets the needs of the increasingly stringent requirements of hazardous area applications that can be found in particular in the process and energy industries. The Klippon® TB MH range offers further enhancements to an already successful and market leading product range.

### Klippon® TB Multi-Hinge (KTB MH)

Note: * Placeholder for the number of gland plates (0, 1, 2, 3, 4). The Klippon® TB enclosures with 2 and 4 gland plates are subject to minimum order quantities. The articles below are 316 Stainless steel. For 304 stainless steel, please contact your local agent.

| | Description | Dimensions H x W x D (in) | Dimensions H x W x D (mm) | 0 Gland Plates | 1 Gland Plate (below) | 2 Gland Plates (above + below) | 3 Gland plates (below + sides) | 4 Gland plates (all sides) |
|---|---|---|---|---|---|---|---|---|
| | KTB MH 221513 S4E_* | 9 x 6 x 5 | 229 x 152 x 133 | 1194550000 | 1194560000 | 1194570000 | 1194580000 | 1194590000 |
| | KTB MH 262615 S4E_* | 10 x 10 x 6 | 260 x 260 x 150 | 1194600000 | 1194610000 | 1194620000 | 1194630000 | 1194640000 |
| | KTB MH 262620 S4E_* | 10 x 10 x 8 | 260 x 260 x 200 | 1194650000 | 1194660000 | 1194670000 | 1194680000 | 1194690000 |
| New | KTB MH 302015 S4E_* | 12 x 8 x 6 | 306 x 203 x 150 | 8000108831 | 8000108832 | | 8000108833 | |
| | KTB MH 303015 S4E_* | 12 x 12 x 6 | 306 x 306 x 150 | 1194700000 | 1194710000 | 1194720000 | 1194730000 | 1194740000 |
| | KTB MH 303020 S4E_* | 12 x 12 x 8 | 306 x 306 x 200 | 1194750000 | 1194760000 | 1194770000 | 1194780000 | 1194790000 |
| | KTB MH 352615 S4E_* | 14 x 10 x 6 | 350 x 260 x 150 | 1194800000 | 1194810000 | 1194820000 | 1194830000 | 1194840000 |
| | KTB MH 352620 S4E_* | 14 x 10 x 8 | 350 x 260 x 200 | 1194850000 | 1194860000 | 1194870000 | 1194880000 | 1194890000 |
| New | KTB MH 353515 S4E_* | 14 x 14 x 6 | 350 x 350 x 150 | 8000108834 | 8000108835 | | 8000108836 | |
| New | KTB MH 353520 S4E_* | 14 x 14 x 8 | 350 x 350 x 200 | 8000108837 | 8000108838 | | 8000108839 | |
| | KTB MH 403015 S4E_* | 16 x 12 x 6 | 400 x 300 x 150 | 1194900000 | 1194910000 | 1194920000 | 1194930000 | 1194940000 |
| | KTB MH 403020 S4E_* | 16 x 12 x 8 | 400 x 300 x 200 | 1194950000 | 1194960000 | 1194970000 | 1194980000 | 1194990000 |
| New | KTB MH 404015 S4E_* | 16 x 16 x 6 | 406 x 406 x 150 | 8000108840 | 8000108841 | | 8000108842 | |
| New | KTB MH 404020 S4E_* | 16 x 16 x 8 | 406 x 406 x 200 | 8000108843 | 8000108844 | | 8000108845 | |
| | KTB MH 453815 S4E_* | 18 x 15 x 6 | 458 x 382 x 150 | 1195000000 | 1195010000 | 1195020000 | 1195030000 | 1195040000 |
| | KTB MH 453820 S4E_* | 18 x 15 x 8 | 458 x 382 x 200 | 1195050000 | 1195060000 | 1195070000 | 1195080000 | 1195090000 |
| | KTB MH 484815 S4E_* | 19 x 19 x 6 | 480 x 480 x 150 | 1195100000 | 1195110000 | 1195120000 | 1195130000 | 1195140000 |
| | KTB MH 484820 S4E_* | 19 x 19 x 8 | 480 x 480 x 200 | 1195150000 | 1195160000 | 1195170000 | 1195180000 | 1195190000 |
| New | KTB MH 504015 S4E_* | 20 x 16 x 6 | 508 x 406 x 150 | 8000108846 | 8000108847 | | 8000108848 | |
| New | KTB MH 504020 S4E_* | 20 x 16 x 8 | 508 x 406 x 200 | 8000108849 | 8000108850 | | 8000108851 | |
| | KTB MH 553515 S4E_* | 21 x 14 x 6 | 550 x 350 x 150 | 1195200000 | 1195210000 | 1195220000 | 1195230000 | 1195240000 |
| | KTB MH 553520 S4E_* | 21 x 14 x 8 | 550 x 350 x 200 | 1195250000 | 1195260000 | 1195270000 | 1195280000 | 1195290000 |
| | KTB MH 355520 S4E_* | 14 x 21 x 8 | 350 x 550 x 200 | 2698040000 | 2698050000 | | | |
| New | KTB MH 624020 S4E_* | 24 x 16 x 8 | 620 x 406 x 200 | 8000108852 | 8000108853 | | 8000108854 | |
| | KTB MH 624515 S4E_* | 24 x 18 x 6 | 620 x 450 x 150 | 1195300000 | 1195310000 | 1195320000 | 1195330000 | 1195340000 |
| | KTB MH 624520 S4E_* | 24 x 18 x 8 | 620 x 450 x 200 | 1195350000 | 1195360000 | 1195370000 | 1195380000 | 1195390000 |
| | KTB MH 456220 S4E_* | 18 x 24 x 8 | 450 x 620 x 200 | 2698060000 | 2698070000 | | | |
| New | KTB MH 625015 S4E_* | 24 x 20 x 6 | 620 x 508 x 150 | 8000108855 | 8000108856 | | 8000108857 | |
| New | KTB MH 625020 S4E_* | 24 x 20 x 8 | 620 x 508 x 200 | 8000108858 | 8000108859 | | 8000108860 | |
| New | KTB MH 626215 S4E_* | 24 x 24 x 6 | 620 x 620 x 150 | 8000108861 | 8000108862 | | | 8000108863 |
| New | KTB MH 626220 S4E_* | 24 x 24 x 8 | 620 x 620 x 200 | 8000108864 | 8000108865 | | | 8000108866 |
| | KTB MH 765015 S4E_* | 30 x 20 x 6 | 762 x 508 x 150 | 1195400000 | 1195410000 | 1195420000 | 1195430000 | 1195440000 |
| | KTB MH 765020 S4E_* | 30 x 20 x 8 | 762 x 508 x 200 | 1195450000 | 1195460000 | 1195470000 | 1195480000 | 1195490000 |
| | KTB MH 507620 S4E_* | 20 x 30 x 8 | 508 x 762 x 200 | 2698080000 | 2698090000 | | | |
| New | KTB MH 766215 S4E_* | 30 x 24 x 6 | 762 x 620 x 150 | 8000108867 | 8000108868 | | 8000108869 | |
| New | KTB MH 766220 S4E_* | 30 x 24 x 8 | 762 x 620 x 200 | 8000108870 | 8000108872 | | 8000108873 | |
| | KTB MH 916115 S4E_* | 36 x 24 x 6 | 914 x 610 x 150 | 1195500000 | 1195510000 | 1195520000 | 1195530000 | 1195540000 |
| | KTB MH 916120 S4E_* | 36 x 24 x 8 | 914 x 610 x 200 | 1195550000 | 1195560000 | 1195570000 | 1195580000 | 1195590000 |
| New** | KTB MH 917620 S4E_* | 36 x 30 x 8 | 914 x 762 x 200 | 8000108875 | 8000108877 | | 8000108879 | |
| New** | KTB MH 919120 S4E_* | 36 x 36 x 8 | 914 x 914 x 200 | 8000108880 | 8000108882 | | 8000108884 | |
| | KTB MH 987420 S4E_* | 40 x 30 x 8 | 980 x 740 x 200 | 1195600000 | 1195610000 | 1195620000 | 1195630000 | 1195640000 |

**UL pending

# Klippon® TB QL

## Stainless steel enclosures for use within harsh environments

The Klippon® TB QL range of enclosures offers the following advantages:

- Available as standard material in 316 stainless steel; contact factory 304 stainless steel
- Equipped with up to 4 gland plates
- The high temperature silicon gasket is protected against compression
- Quick-locking lid, comes with a slot as standard
- Improved temperature performance
- IP66 protection class
- Welded mounting feet
- Earth studs in enclosure cover and bottom section

Our assembly service can supply these enclosures preassembled with terminals and cable glands according to customer requirements.

The Klippon® TB range of enclosures delivers an outstanding performance in the severest conditions and meets the needs of the increasingly stringent requirements of hazardous area applications that can be found in particular in the process and energy industries. The Klippon® TB QL range offers further enhancements to an already successful and market leading product range.

### Klippon® TB Quarter Lock (KTB QL)

Note: * KTB Large enclosures are offered in 1 GP version only as standard item. Custom design is available. The Klippon® TB QL enclosures are subject to minimum order quantities. The articles below are 316 Stainless steel. For 304 stainless steel, please contact your local agent.

| | Description | Dimensions H x W x D (in) | Dimensions H x W x D (mm) | 0 Gland Plates | 1 Gland Plate (below) | 2 Gland Plates (above + below) | 3 Gland plates (below + sides) | 4 Gland plates (all sides) |
|---|---|---|---|---|---|---|---|---|
| | KTB QL 221513 S4E_* | 9 x 6 x 5 | 229 x 152 x 133 | 1199850000 | 1199860000 | 1199870000 | 1199880000 | 1199890000 |
| | KTB QL 262615 S4E_* | 10 x 10 x 6 | 260 x 260 x 150 | 1199900000 | 1199910000 | 1199920000 | 1199930000 | 1199940000 |
| | KTB QL 262620 S4E_* | 10 x 10 x 8 | 260 x 260 x 200 | 1199950000 | 1199960000 | 1199970000 | 1199980000 | 1199990000 |
| New | KTB QL 302015 S4E_* | 12 x 8 x 6 | 306 x 203 x 150 | 8000109883 | 8000109885 | | 8000109886 | |
| | KTB QL 303015 S4E_* | 12 x 12 x 6 | 306 x 306 x 150 | 1200010000 | 1200020000 | 1200030000 | 1200040000 | 1200050000 |
| | KTB QL 303020 S4E_* | 12 x 12 x 8 | 306 x 306 x 200 | 1200060000 | 1200070000 | 1200080000 | 1200090000 | 1200100000 |
| | KTB QL 352615 S4E_* | 14 x 10 x 6 | 350 x 260 x 150 | 1200110000 | 1200120000 | 1200130000 | 1200140000 | 1200150000 |
| | KTB QL 352620 S4E_* | 14 x 10 x 8 | 350 x 260 x 200 | 1200160000 | 1200170000 | 1200180000 | 1200190000 | 1200210000 |
| New | KTB QL 353515 S4E_* | 14 x 14 x 6 | 350 x 350 x 150 | 8000109887 | 8000109888 | | 8000109889 | |
| New | KTB QL 353520 S4E_* | 14 x 14 x 8 | 350 x 350 x 200 | 8000109890 | 8000109891 | | 8000109892 | |
| | KTB QL 403015 S4E_* | 16 x 12 x 6 | 400 x 300 x 150 | 1200220000 | 1200230000 | 1200240000 | 1200250000 | 1200260000 |
| | KTB QL 403020 S4E_* | 16 x 12 x 8 | 400 x 300 x 200 | 1200270000 | 1200280000 | 1200290000 | 1200310000 | 1200320000 |
| New | KTB QL 404015 S4E_* | 16 x 16 x 6 | 400 x 400 x 150 | 8000109893 | 8000109894 | | 8000109895 | |
| New | KTB QL 404020 S4E_* | 16 x 16 x 8 | 400 x 400 x 200 | 8000109896 | 8000109897 | | 8000109898 | |
| | KTB QL 453815 S4E_* | 18 x 15 x 6 | 458 x 382 x 150 | 1200330000 | 1200340000 | 1200350000 | 1200360000 | 1200370000 |
| | KTB QL 453820 S4E_* | 18 x 15 x 8 | 458 x 382 x 200 | 1200380000 | 1200390000 | 1200410000 | 1200420000 | 1200430000 |
| | KTB QL 484815 S4E_* | 19 x 19 x 6 | 480 x 480 x 150 | 1200440000 | 1200450000 | 1200460000 | 1200470000 | 1200480000 |
| | KTB QL 484820 S4E_* | 19 x 19 x 8 | 480 x 480 x 200 | 1200490000 | 1200510000 | 1200520000 | 1200530000 | 1200540000 |
| New | KTB QL 504015 S4E3 | 20 x 16 x 6 | 508 x 406 x 150 | 8000109899 | 8000109900 | | 8000109901 | |
| New | KTB QL 504020 S4E0 | 20 x 16 x 8 | 508 x 406 x 200 | 8000109902 | 8000109903 | | 8000109904 | |
| | KTB QL 553515 S4E_* | 21 x 14 x 6 | 550 x 350 x 150 | 1200550000 | 1200560000 | 1200570000 | 1200580000 | 1200590000 |
| | KTB QL 553520 S4E_* | 21 x 14 x 8 | 550 x 350 x 200 | 1200610000 | 1200620000 | 1200630000 | 1200640000 | 1200650000 |
| New | KTB QL 624020 S4E_* | 24 x 16 x 8 | 620 x 406 x 200 | 8000109905 | 8000109906 | | 8000109907 | |
| | KTB QL 624515 S4E_* | 24 x 18 x 6 | 620 x 450 x 150 | 1200660000 | 1200670000 | 1200680000 | 1200690000 | 1200710000 |
| | KTB QL 624520 S4E_* | 24 x 18 x 8 | 620 x 450 x 200 | 1200720000 | 1200730000 | 1200740000 | 1200750000 | 1200760000 |
| New | KTB QL 625015 S4E_* | 24 x 20 x 6 | 620 x 508 x 150 | 8000109908 | 8000109909 | | 8000109910 | |
| New | KTB QL 625020 S4E_* | 24 x 20 x 8 | 620 x 508 x 200 | 8000109911 | 8000109912 | | 8000109913 | |
| New | KTB QL 626215 S4E_* | 24 x 24 x 6 | 620 x 620 x 150 | 8000109914 | 8000109915 | | 8000109916 | |
| New | KTB QL 626220 S4E_* | 24 x 24 x 8 | 620 x 620 x 200 | 8000109917 | 8000109918 | | 8000109919 | |
| | KTB QL 765015 S4E_* | 30 x 20 x 6 | 762 x 508 x 150 | 1200770000 | 1200780000 | 1200790000 | 1200810000 | 1200820000 |
| | KTB QL 765020 S4E_* | 30 x 20 x 8 | 762 x 508 x 200 | 1200830000 | 1200840000 | 1200850000 | 1200860000 | 1200870000 |
| New | KTB QL 766215 S4E_* | 30 x 24 x 6 | 762 x 620 x 150 | 8000109920 | 8000109921 | | 8000109922 | |
| New | KTB QL 766220 S4E_* | 30 x 24 x 8 | 762 x 620 x 200 | 8000109923 | 8000109924 | | 8000109925 | |
| | KTB QL 916115 S4E_* | 36 x 24 x 6 | 914 x 610 x 150 | 1200940000 | 1200890000 | 1200910000 | 1200920000 | 1200930000 |
| | KTB QL 916120 S4E_* | 36 x 24 x 8 | 914 x 610 x 200 | 1200880000 | 1200950000 | 1200960000 | 1200970000 | 1200980000 |
| New** | KTB QL 917620 S4E_* | 36 x 30 x 8 | 914 x 762 x 200 | 8000109926 | 8000109927 | | 8000109928 | |
| New** | KTB QL 919120 S4E_* | 36 x 36 x 8 | 914 x 914 x 200 | 8000109929 | 8000109930 | | 8000109931 | |
| | KTB QL 987420 S4E_* | 40 x 30 x 8 | 980 x 740 x 200 | 1200990000 | 1201010000 | 1201020000 | 1201030000 | 1201040000 |
| **KTB Large QL 316SS Quarter Turn Lock** | | | | | | | | |
| | KTBLQL1005030S4B1 LL1 | 40 x 20 x 12 | 1000 x 500 x 300 | | 2698400000 | | | |
| | KTBLQL1258040S4B1 LL1 | 50 x 31 x 16 | 1250 x 800 x 400 | | 2698420000 | | | |
| | KTBLQL15010050S4B1 LL1 | 60 x 40 x 20 | 1500 x 1000 x 500 | | 2698430000 | | | |

**UL pending

# Klippon® EBi

## Rugged enclosures for demanding industrial environments

### Benefits

- Material: natural 304 stainless steel
- Various locking systems for your individual requirements to guarantee safe locking of your enclosures
- Securely fitted PUR foamed gaskets for industrial applications - designed to suit the contour of the enclosure
- Flexible, easy and comfortable installation of mounting rails and mounting plates due to mounting angle inside the enclosure
- Flexible mounting: direct wallmounting or mounting lugs as accessories offer a flexible attachment
- M6 earth rivet provides for a secure earth protection functionality
- Klippon® EBi enclosure is not UL or CSA listed

The Klippon® EBi industrial enclosure series protects your components reliably if they are used in moderate environmental conditions and is designed for everyday applications. Our standard product is the Klippon® EBi QL – with hinged door and double-bit key lock. With the ever-increasing need for individual application solutions, the Klippon® EBi with its high degree of protection and impact resistance is ideally suited to your needs.

### Klippon® EBi

| Description | Dimensions H x W x D (in) | Gland Plates | Order Number |
|---|---|---|---|
| KEBI QL302015 S2B0 | 12x8x6 | 0 | **2470690000** |
| KEBI QL303015 S2B0 | 12x12x6 | 0 | **2470700000** |
| KEBI QL303022 S2B0 | 12x12x9 | 0 | **2470710000** |
| KEBI QL403015 S2B0 | 16x12x6 | 0 | **2470720000** |
| KEBI QL403022 S2B0 | 16x12x9 | 0 | **2470730000** |
| KEBI QL404022 S2B0 | 16x16x9 | 0 | **2470740000** |
| KEBI QL504022 S2B0 | 20x16x9 | 0 | **2470750000** |
| KEBI QL505022 S2B0 | 20x20x9 | 0 | **2470760000** |
| KEBI QL604022 S2B0 | 24x16x9 | 0 | **2470770000** |
| KEBI QL606022 S2B0 | 24x24x9 | 0 | **2470780000** |
| KEBI QL806022 S2B0 | 31.5x24x9 | 0 | **2470790000** |
| KEBI QL302015 S2B1 | 12x8x6 | 1 | **2470800000** |
| KEBI QL303015 S2B1 | 12x12x6 | 1 | **2470810000** |
| KEBI QL303022 S2B1 | 12x12x9 | 1 | **2470820000** |
| KEBI QL402015 S2B1 | 16x12x6 | 1 | **2470830000** |
| KEBI QL402022 S2B1 | 16x12x9 | 1 | **2470840000** |
| KEBI QL404022 S2B1 | 16x16x9 | 1 | **2470850000** |
| KEBI QL504022 S2B1 | 20x16x9 | 1 | **2470860000** |
| KEBI QL505022 S2B1 | 20x20x9 | 1 | **2470870000** |
| KEBI QL604022 S2B1 | 24x16x9 | 1 | **2470880000** |
| KEBI QL606022 S2B1 | 24x24x9 | 1 | **2470890000** |
| KEBI QL806022 S2B1 | 31.5x24x9 | 1 | **2470900000** |

# Cabtite & New Cabtite FrontTight

## Fast and easy tooless assembly from the outside

NEW

Cabtite offers maximum flexibility and time-saving in the cable management of control cabinets, enclosures and machines. To manage pre-assembled cables is challenging for many plant manufacturers, especially when the cables run through cabinet or enclosure walls. A flexible cable entry system speeds up installation, facilitates service and minimizes downtime. With the Cabtite cable entry system, assembled and unassembled cables in control cabinets, enclosures and machines are securely sealed and protected against tensile stress.

### Benefits

- High IP66 protection class
- Integrated strain relief
- Installation safety through simple handling with acoustic feedback
- Preservation of the manufacturer's guarantee for pre-assembled cables
- Fast adaptation of cable management in the event of system changes, service and maintenance cases
- All cabtite components are approved in accordance with UL 508A, UL50, UL50E, and CSA C22.2 regulations, Type 4x and 12, File E223801
- Reduce installation space by more than 50% with our cable entry system solution

### Rectangular Frame - Cabtite Kits

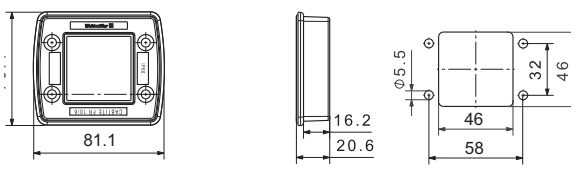
The one-piece frame is quick and easy to assemble and consists of dimensionally stable made from glass fiber reinforced plastic and is available in 4 different sizes. The captive foamed seal guarantees IP66 in accordance with DIN EN 60529 and also Nema 4x and 12 rating, even on painted and rough surfaces. The frames sets contain the click inlays for an individual configuration of small and large sealing elements. The sealing elements are not included in the frame set and must be ordered seperately to the cable diameter which is chosen.

### Technical Data

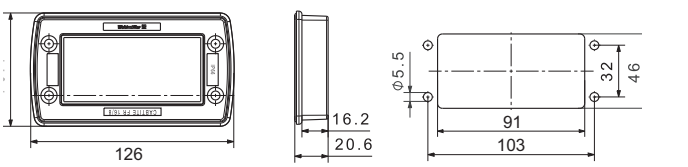
| Type | Material | Color | Flammability | Temperature range | Degree of protection | Tightening torque of the Frame |
|---|---|---|---|---|---|---|
| Cable Entry Frame | Polyamide PA 6.6, glass-fiber reinforced, TPE, Halogen-free / silicone-free | Black RAL 9005 | UL 94 V-0 | –40 °C to +120 °C | IP66 | 3 Nm |

### Dimensions

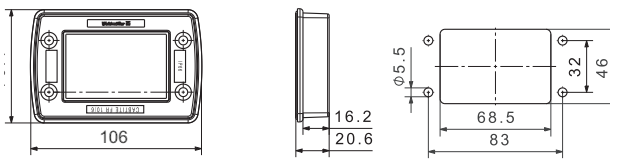
CABTITE FR 4-1 BK SET



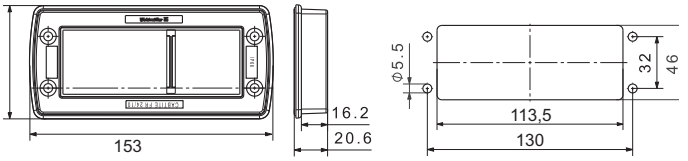

CABTITE FR 16/8 BK SET




CABTITE FR 10/6 BK SET

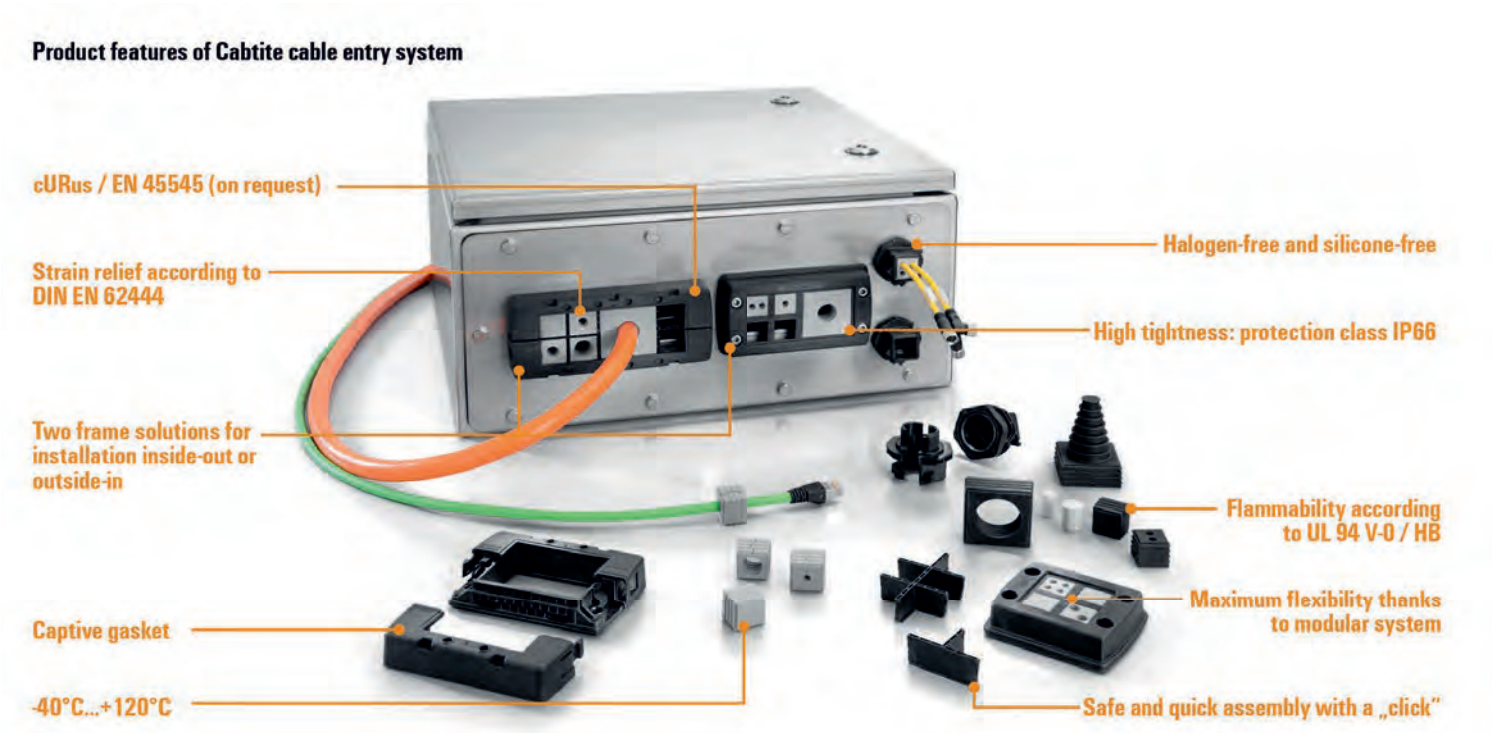



CABTITE FR 24/10 BK SET




**Option:** To have a natural barrier to lock the sealing elements in place, without using a locking frame, it is also possible to prepare the rectangular cut-out roughly 1/16" smaller.

# Cabtite FrontTight FRFT Frames & Accessories Sets




| Pos. | Description Short | Short description | Sealing combination | Order Number |
|---|---|---|---|---|
| 1 | CABTITE FRFT 4-1 | Single Frame (empty w/o Inlay) | 1 large sealing element or 4 small sealing elements | **2891450000** |
| 2 | CABTITE FRFT 4-1 SET | Frame Set (X-Inlay inculded) | 1 large sealing element or 4 small sealing elements | **2891470000** |
| 3 | CABTITE FRFT 10/6 | Single Frame (empty w/o Inlay) | 6 small sealing elements or 1 large sealing element and 2 small sealing elements | **2891480000** |
| 4 | CABTITE FRFT 10/6 SET | Frame Set (T- and H-Inlays inculded) | 6 small sealing elements or 1 large sealing element and 2 small sealing elements | **2891500000** |
| 5 | CABTITE FRFT 16/8 | Single Frame (empty w/o Inlay) | 2 large sealing elements or 4 small sealing elements or 1 large sealing element and 4 small sealing elements or 8 small sealing elements | **2891510000** |
| 6 | CABTITE FRFT 16/8 SET | Frame Set (X-Inlays inculded) | 2 large sealing elements or 4 small sealing elements or 1 large sealing element and 4 small sealing elements or 8 small sealing elements | **2891530000** |
| 7 | CABTITE FRFT 24/10 | Single Frame (empty w/o Inlay) | 2 large sealing elements and 4 small sealing elements or 1 large sealing element and 6 small sealing elements or 10 small sealing elements | **2891540000** |
| 8 | CABTITE FRFT 24/10 SET | Frame Set (T-,X- and H-Inlays inculded) | 2 large sealing elements and 4 small sealing elements or 1 large sealing element and 6 small sealing elements or 10 small sealing elements | **2891560000** |
| Note | All frames are compatible with the existing sealing elements (Cabtite SE) and inlays (Cabtite GI). Availabe clamping range 1.5mm up to 35mm. | | | |

# Standard Cabtite FR Frames & Accessories

## Ordering data

| Type | Set consists of | Qty. | Order Number |
|---|---|---|---|
| CABTITE FR 4-1 BK SET | 1x CABTITE FR 4-1 BK,<br>1x CABTITE GI X BK | 1 | 2583780000 |

**Possible combinations**

| Set | + Sealing elements | | |
|---|---|---|---|
| | + 1x | = | |
| | + 4x | = | |

## Ordering data

| Type | Set consists of | Qty. | Order Number |
|---|---|---|---|
| CABTITE FR 10/6 BK SET | 1x CABTITE FR 10/6 BK,<br>1x CABTITE GI H BK,<br>1x CABTITE GI T BK | 1 | 2583760000 |

**Possible combinations**

| Set | + Sealing elements | | |
|---|---|---|---|
| | + 6x | = | |
| | + 1x | | |
| | + 2x | = | |

## Ordering data

| Type | Set consists of | Qty. | Order Number |
|---|---|---|---|
| CABTITE FR 16/8 BK SET | 1x CABTITE FR 16/8 BK,<br>1x CABTITE GI I BK,<br>2x CABTITE GI X BK | 1 | 2583740000 |

**Possible combinations**

| Set | + Sealing elements | | |
|---|---|---|---|
| | + 2x | = | |
| | + 1x | | |
| | + 4x | = | |
| | + 8x | = | |

## Ordering data

| Type | Set consists of | Qty. | Order Number |
|---|---|---|---|
| CABTITE FR 24/10 BK SET | 1x CABTITE FR 24/10 BK,<br>1x CABTITE GI T BK,<br>1x CABTITE GI X BK,<br>1x CABTITE GI H BK | 1 | 2583720000 |

**Possible combinations**

| Set | + Sealing elements | | |
|---|---|---|---|
| | + 2x | | |
| | + 2x | = | |
| | + 1x | | |
| | + 6x | = | |
| | + 10x | = | |

## Separable cable glands - Cabtite CGS

The two-sheath cable gland (for round metric cut-outs from M20 to M63) is quick and easy to install and consists of dimensionally stable, glass-fiber reinforced plastic. The system can be used for 1,5 to 35 mm pre-assembled cables to inserted quickly and safely in panels or enclosures. Reliable sealing of IP66 in accordance with DIN EN 60529 and an secure fitting (strain relief based on DIN EN 62444) is ensured by placing slotted sealing elements with a wave cut around the cable before being inserted into one of the two halves of the cable gland. After inserting the sealing element, the two halves of the cable gland are simply snapped together. A locknut, which is also separable, on the inside of the panel ensures a reliable and secure hold. The snap-in inlay GI X can be used to divide the cable gland for small sealing elements; the lock nut is included in the delivery.

### Technical Data

| | |
|---|---|
| Material | Polyamide PA 6.6, glass-fibre reinforced \| TPE Halogen-free / silicone-free, UV stabilised |
| Color | black RAL 9005 |
| Flammability | UL 94 HB |
| Temperature range | –40 °C to + 120 °C (static) |
| Degree of protection | IP66 |

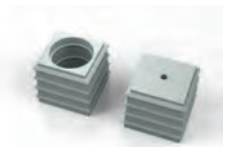
### Ordering data

| Type | Design information | Qty | Order Number |
|---|---|---|---|
| CABTITE CGS M20 BK | Suitable for 1 small sealing element | 10 | **2584200000** |
| CABTITE CGS M25 BK | Suitable for 1 small sealing element | 10 | **2584180000** |
| CABTITE CGS M32 BK | Suitable for 1 small sealing element | 10 | **2584160000** |
| CABTITE CGS M40 BK* | Suitable for 1 large or 4 small sealing elements | 5 | **2584150000** |
| CABTITE CGS M50 BK* | Suitable for 1 large or 4 small sealing elements | 5 | **2584130000** |
| CABTITE CGS M63 BK* | Suitable for 1 large or 4 small sealing elements | 5 | **2584120000** |

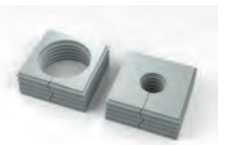
* Can accommodate 4 small sealing elements with the CABTITE GI X BK – 2584290000 inlays.

## Cable Sealing Elements / Grommets - Cabtite SE

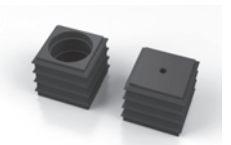
- Conical shape of the sealing elements - easy installation, reliable sealing
- UL94 V0 or HB
- Suitable for the preassembled cable
- IP66 protection
- Sealing elements are available with different cable, diameter and geometories
- All sealing elements are compatible with Cabtite FR, FRFT, CGS



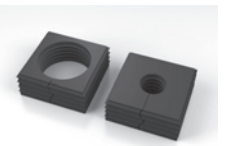
Small sealing elements – Clamping range 1.5–16 mm gray version



Large sealing elements – Clamping range 14–35 mm gray version



Small sealing elements – Clamping range 1.5–16 mm black version



Large sealing elements – Clamping range 14–35 mm black version

### Technical Data

| Type | Material | Color | Flammability | Temperature range | Degree of protection |
|---|---|---|---|---|---|
| Sealing element / Cable grommets | TPE, Halogen-free / silicone-free | Gray RAL 7035 | UL 94 V-0 | –40 °C to + 90 °C (static) | IP66 |
| Sealing element / Cable grommets | TPE, Halogen-free / silicone-free, UV stabilized | Black RAL 9005 | UL94 HB | –40 °C to + 120 °C (static) | IP66 |

### Ordering data

| Type | Clamping range, mm | Design information | Qty | Order Number |
|---|---|---|---|---|
| CABTITE BSE SML GY | Blanking Plug | small | 10 | **2583350000** |
| CABTITE SE 1.5-2 SML GY | 1,5-2 | small | 10 | **2583360000** |
| CABTITE SE 1.5 SML GY | 1,25-1,75 | small | 10 | **2583370000** |
| CABTITE SE 2-3 SML GY | 2-3 | small | 10 | **2583380000** |
| CABTITE SE 2 SML GY | 1,75-2,25 | small | 10 | **2583390000** |
| CABTITE SE 3-4 SML GY | 3-4 | small | 10 | **2583400000** |
| CABTITE SE 3 SML GY | 2,75-3,25 | small | 10 | **2583410000** |
| CABTITE SE 4-5 SML GY | 4-5 | small | 10 | **2583440000** |
| CABTITE SE 5-6 SML GY | 5-6 | small | 10 | **2583450000** |
| CABTITE SE 6-7 SML GY | 6-7 | small | 10 | **2583460000** |
| CABTITE SE 10-11 SML GY | 10-11 | small | 10 | **2584610000** |
| CABTITE BSE LRG GY | Blanking Plug | large | 10 | **2584520000** |
| CABTITE SE 14-15 LRG GY | 14-15 | large | 10 | **2584510000** |
| CABTITE SE 15-16 LRG GY | 15-16 | large | 10 | **2584500000** |
| CABTITE SE 16-17 LRG GY | 16-17 | large | 10 | **2584490000** |
| CABTITE SE 17-18 LRG GY | 17-18 | large | 10 | **2584480000** |
| CABTITE SE 18-19 LRG GY | 18-19 | large | 10 | **2584470000** |
| CABTITE SE 19-20 LRG GY | 19-20 | large | 10 | **2584460000** |
| CABTITE SE 34-35 LRG GY | 34-35 | large | 10 | **2595530000** |
| **Sealing elements with multiple holes, grey, in small** | | | | |
| CABTITE SE 2/4-5 SML GY | 4-5 | small | 10 | **2584900000** |
| CABTITE SE 2/5-6 SML GY | 5-6 | small | 10 | **2584890000** |
| CABTITE SE 2/6.5 SML GY | 6,5 | small | 10 | **2584880000** |
| CABTITE SE 4/2-3 SML GY | 2-3 | small | 10 | **2584870000** |
| CABTITE SE 4/3-4 SML GY | 3-4 | small | 10 | **2584860000** |
| CABTITE SE 4/4-5 SML GY | 4-5 | small | 10 | **2584840000** |
| CABTITE SE 2/7 SML GY | 6.75 - 7.25 | small | 10 | **2584830000** |
| CABTITE SE 2/8 SML GY | 7.75 - 8.25 | small | 10 | **2584820000** |

**Note:** Type (example): Cabtite SE 2/4-5 SML GY
2 = 2 entries / 4 - 5 = ea. entry sealing range of 4 mm - 5 mm

| Type | Clamping range, mm | Design information | Qty | Order Number |
|---|---|---|---|---|
| CABTITE BSE SML BK | Blanking Plug | small | 10 | **2584790000** |
| CABTITE SE 1.5-2 SML BK | 1,5-2 | small | 10 | **2584780000** |
| CABTITE SE 1.5 SML BK | 1,25-1,75 | small | 10 | **2584770000** |
| CABTITE SE 2-3 SML BK | 2-3 | small | 10 | **2584760000** |
| CABTITE SE 2 SML BK | 1,75-2,25 | small | 10 | **2584750000** |
| CABTITE SE 3-4 SML BK | 3-4 | small | 10 | **2584730000** |
| CABTITE SE 3 SML BK | 2,75-3,25 | small | 10 | **2584720000** |
| CABTITE SE 4-5 SML BK | 4-5 | small | 10 | **2584680000** |
| CABTITE SE 5-6 SML BK | 5-6 | small | 10 | **2584710000** |
| CABTITE SE 6-7 SML BK | 6-7 | small | 10 | **2584690000** |
| CABTITE SE 7-8 SML BK | 7-8 | small | 10 | **2584670000** |
| CABTITE SE 9-10 SML BK | 9-10 | small | 10 | **2584080000** |
| CABTITE BSE LRG BK | Blanking Plug | large | 10 | **2583900000** |
| CABTITE SE 14-15 LRG BK | 14-15 | large | 10 | **2583880000** |
| CABTITE SE 15-16 LRG BK | 15-16 | large | 10 | **2583860000** |
| CABTITE SE 16-17 LRG BK | 16-17 | large | 10 | **2583850000** |
| CABTITE SE 17-18 LRG BK | 17-18 | large | 10 | **2583840000** |
| CABTITE SE 18-19 LRG BK | 18-19 | large | 10 | **2583830000** |
| CABTITE SE 19-20 LRG BK | 19-20 | large | 10 | **2583810000** |
| **Sealing elements with multiple holes, black, in small** | | | | |
| CABTITE SE 2/4-5 SML BK | 4-5 | small | 10 | **2583620000** |
| CABTITE SE 2/5-6 SML BK | 5-6 | small | 10 | **2583610000** |
| CABTITE SE 2/6.5 SML BK | 6,5 | small | 10 | **2583600000** |
| CABTITE SE 4/2-3 SML BK | 2-3 | small | 10 | **2583590000** |
| CABTITE SE 4/3-4 SML BK | 3-4 | small | 10 | **2583580000** |
| CABTITE SE 4/4-5 SML BK | 4-5 | small | 10 | **2583560000** |
| CABTITE SE 2/7 SML BK | 6,75 - 7,25 | small | 10 | **2583550000** |
| CABTITE SE 2/8 SML BK | 7,75 - 8,25 | small | 10 | **2583540000** |

**Note:** Type (example): Cabtite SE 2/4-5 SML BK
2 = 2 entries / 4 - 5 = ea. entry sealing range of 4 mm - 5 mm

# Cabtite - Accessories

## Locking Frame separable - Cabtite FRL/FRFT

With the optional locking frame, the sealing elements secured against tool-free or accidental pushing out. The application is thus protected against manipulation from the outside.

### Technical Data

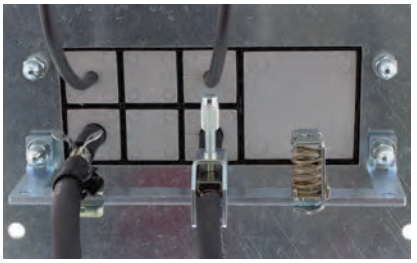
| | |
|---|---|
| Material | Polyamide PA 6.6, glass-fibre reinforced |
| Color | black RAL 9005 |
| Flammability | UL 94 V-0 |
| Temperature range | -40 °C to + 120 °C |

### Ordering data

| Type | Design information | Qty | Order Number |
|---|---|---|---|
| **CABTITE FR** | | | |
| CABTITE FRL 4-1 BK | for CABTITE FR 4-1 BK | 10 | **2584260000** |
| CABTITE FRL 10/6 BK | for CABTITE FR 10/6 BK | 10 | **2584240000** |
| CABTITE FRL 16/8 BK | for CABTITE FR 16/8 BK | 10 | **2584220000** |
| CABTITE FRL 24/10 BK | for CABTITE FR 24/10 BK | 10 | **2584210000** |
| **CABTITE FRFT** | | | |
| CABTITE OFRL BK | Cover locking outside, required for UL/ UR approval | 20 | **2907560000** |
| CABTITE FRFT 4-1 | Cover - Spare part | 1 | **2891450000** |
| CABTITE FRFT-AD 10/6 | Cover - Spare part | 1 | **2891490000** |
| CABTITE FRFT-AD 16/8 | Cover - Spare part | 1 | **2891520000** |
| CABTITE FRFT-AD 24/10 | Cover - Spare part | 1 | **2891560000** |

## Shielding Rail - Cabtite CR

The shield connection rails, in combination with a large number of different shield connection clamps (KLBÜ), allow a practice-oriented, uncomplicated and fast shielding of the cables.



### Technical Data

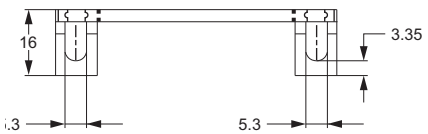
| | |
|---|---|
| Material | Steel, zinc plated |

### Ordering data

| Type | Qty | Order Number |
|---|---|---|
| CABTITE CR 4-1 EMV | 10 | **2583950000** |
| CABTITE CR 10/6 EMV | 10 | **2583930000** |
| CABTITE CR 16/8 EMV | 10 | **2583910000** |
| CABTITE CR 24/10 EMV | 10 | **2583890000** |

### Dimensions width x height

CABTITE CR 4-1 EMV for CABTITE FR 4-1 BK



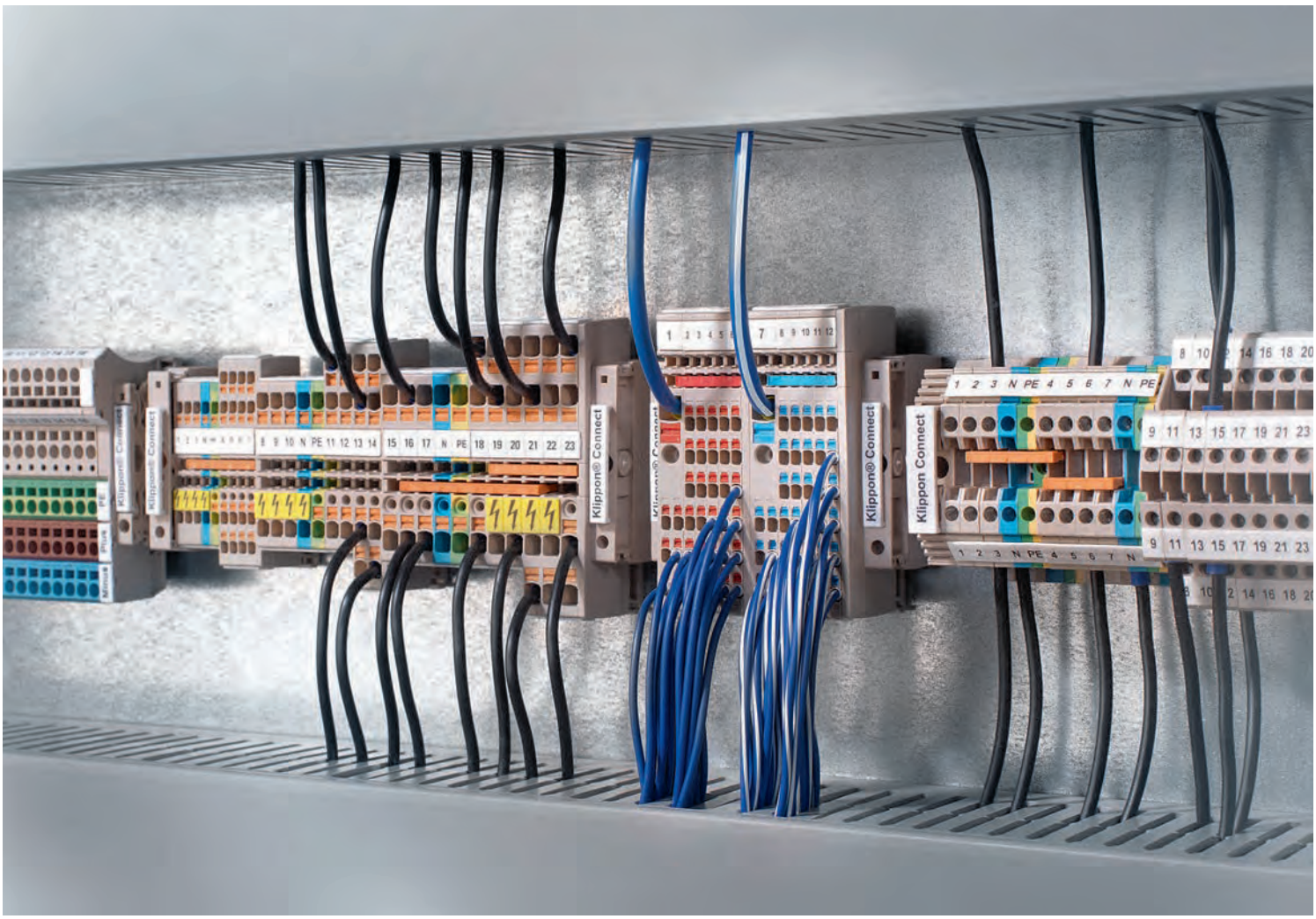

CABTITE CR 16/8 EMV for CABTITE FR 16/8 BK

CABTITE CR 10/6 EMV for CABTITE FR 10/6 BK

CABTITE CR 24/10 EMV for CABTITE FR 24/10 BK

# Klippon® Connect Terminal Blocks

Connectivity




## Klippon® Connect: the pioneering connectivity solutions

Increasingly complex production processes and technological leaps consistent with Industry 4.0 call for new solutions for more efficient panel building.
With Klippon® Connect, you will successfully master all demands of today and tomorrow: tailored application products, universal terminal blocks and process-supporting services offer the right solution for every concept.

# Klippon® Connect Terminal Blocks

## Frequently Asked Questions

### Why use terminal blocks to connect instrumentation devices to the control unit?

Instrumentation is used throughout a process plant. Long distances and high signal volume make it impractical to connect signal channels directly to control units or I/O modules. Using terminal blocks, signals can be collected and bundled in junction boxes and marshalling cabinets throughout the plant, then wired to the DCS in the control room.

### What connection functions are needed?

The most common function is feed-through: signals are connected from one wire to another. Fast-blow fuses or other current limiting devices can be integrated into the terminal block to protect the control system I/O modules from field wiring faults. Disconnect terminal blocks with integral test plugs are used for test and measurement purposes during commissioning and ongoing maintenance.

### Why provide fusing with terminal blocks?

Fusing protects the control unit and instrumentation from damage caused by short circuits or wiring faults in the field. Signal channels on control I/O modules have fuse protection as a standard feature. Fused terminal blocks provide additional protection and are preferred because access and handling for maintenance and fuse changing is more convenient and limits unnecessary contact with the control unit.

### Why is a disconnect function included on a terminal block?

The disconnect function is often required to open individual signal circuits for digital I/Os. For analog signals, disconnect terminal blocks are used for test and measurement during field commissioning and maintenance.

### What typical connection configurations are used?

Connection configuration is dependent on the type of signal and the field instrumentation. The positive (+) signal is wired to a fuse or disconnect block and the neutral wire is connected to a feed-through terminal block. There is one terminal block per wire, resulting in two terminal blocks per signal loop. Three terminal blocks may be needed if the shield wire is also connected to a separate PE ground block. Other configurations use two or more circuits in one multi-level terminal block and provide options that include a pluggable interface to the I/O modules.

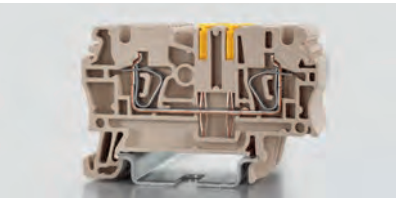
NEW

**Spring connection with SNAP IN technology**

Simple and tool-free connection of flexible and fine-stranded conductors even without a ferrule

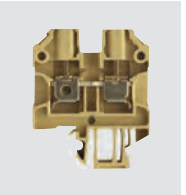
**Spring connection with PUSH IN technology**

Increase efficiency in installation without compromising on safety



**Spring connection with Tension Clamp technology**

Universal contact system for all common conductor connection types



**Screw connection with Clamping Yoke technology**

Patented clamping yoke technology ensures the ultimate in contact safety

**Screw connection with Stud technology**

Established, robust connection alternative for particularly harsh environments

# W Series Screw Clamp

- One of the broadest Screw Clamp termination configurations available
- Pluggable Jumpers can reduce install time by as much as 50-60% compared to screw jumpers
- Screw clamps create an innovative gas-tight connection to prevent intermittant signal loss and unwanted voltage drops
- Meets all industry approvals including, hazardous (e.g. ATEX, C1Z1) and UL508A SCCR requirements (100kA interrupt rating)
- "Self-locking" clamp guarantees a positive connection that is 100% vibration proof

## Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1040800000 | WDU 2.5N | Single-Level | 5mm | 300/20/30-12 | 300/20/26-12 | 1060000000 / - |
| 1020000000 | WDU 2.5 | Single-Level | 5mm | 600/25/30-12 | 600/20/26-12 | 1050000000 / 1050100000 |
| 1020100000 | WDU 4 | Single-Level | 6mm | 600/35/22-10 | 600/35/26-10 | 1050000000 / 1050100000 |
| 1020200000 | WDU 6 | Single-Level | 8mm | 600/50/22-8 | 600/50/22-8 | 1050000000 / 1050100000 |
| 1020300000 | WDU 10 | Single-Level | 10mm | 600/65/18-6 | 600/65/18-6 | 1050000000 / 1050100000 |
| 1020400000 | WDU 16 | Single-Level | 12mm | 600/85/18-4 | 600/85/18-6 | 1050100000 / 1058800000 |
| 1020500000 | WDU 35 | Single-Level | 16mm | 1000/150/12-1 | 600/120/12-2 | 1050100000 / 1058800000 |

## Feed Through Terminal Blocks - Multi-Level

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1031400000 | WDU 1.5/ZZ | Branch - 4 clamps | 5mm | 300/10/26-12 | 300/10/26-12 | 1050000000 / 1050100000 |
| 1024700000 | WDU 2.5/ZR | Branch - 3 clamps | 5mm | 300/20/30-12 | 300/20/26-12 | 1050000000 / 1050100000 |
| 1021500000 | WDK 2.5 | Dual-level (length - 65mm) | 5mm | 300/20/30-12 | 300/25/26-12 | 1059100000 / 1058800000* |
| 1041600000 | WDK 2.5N | Dual-level (length - 60mm) | 5mm | 600/20/30-12 | 300/20/26-12 | 1084000000 / 1058800000 |
| 1041610000 | WDK 2.5NV* | Branch Dual-level | 5mm | 600/20/30-12 | 300/20/26-12 | 1084000000 / 1058800000 |
| 1041100000 | WDK 2.5 ZQV | Dual-level | 5.1 mm | 300/20/22-12 | 300/25/26-12 | 1059100000 / 1058800000 |
| 2732600000 | WDK 2.5V ZQV OR* | Dual-level | 5.1 mm | 300/20/22-12 | 300/25/26-12 | 1059100000 / 1058800000 |
| 1041900000 | WDK 4N | Dual-level | 6mm | 600/35/26-10 | 300/30/26-10 | 1084000000 / 1058800000 |
| 1041910000 | WDK 4NV* | Branch Dual-level | 6mm | 600/35/26-10 | 300/30/26-10 | 1084000000 / 1058800000 |
| 1041650000 | WDK 2.5N DU-PE | Dual-level w/ground | 5mm | 600/20/30-12 | 300/20/26-12 | 1084000000 / 1058800000 |
| 1041950000 | WDK 4N DU-PE | Dual-level w/ground | 6mm | 600/35/26-10 | 300/30/26-10 | 1084000000 / 1058800000 |
| 1186740000 | WDK 10 | Dual-level | 10mm | 600/64/18-6 | 600/64/18-6 | 1186720000 / - |
| 1186770000 | WDK 10V | Dual-level | 10mm | 600/64/18-6 | 600/64/18-6 | 1186720000 / - |

* V denotes: Upper and lower tier linked

## Disconnect Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1855610000 | WTR 2.5 | Single-Level | 5mm | 600/20/30-12 | 300/10/26-12 | 1050000000 / 1050100000 |
| 1855620000 | WTR 2.5, Stb2.3 | Single-Level, w/Test Socket | 5mm | 600/20/30-12 | 300/10/26-12 | 1050000000 / 1050100000 |
| 1039900000 | WTR 2.5/ZZ | Branch - 4 clamps | 6mm | 300/10/26-12 | 300/10/26-12 | 1074600000 / - |
| 7910180000 | WTR 4 | Single-Level | 6mm | 600/22/22-10 | 300/10/22-10 | 1050000000 / 1050100000 |
| 7910210000 | WTR 4, Stb2.3 | Single-Level, w/Test Socket | 5mm | 600/22/22-10 | 300/10/22-10 | 1050000000 / 1050100000 |
| 1905090000 | WTR 4/ZZ | Branch, 4 clamp | 5mm | 600/30/30-10 | 600/25/30-10 | 1074600000 / - |
| 1247290000 | WDK 2.5/TR-DU | Dual-level | 5mm | 300/20/24-12 | 300/20/30-12 | 1839850000 / - |
| 1247420000 | WDK 2.5/TR-DU-PE | Dual-level, w/ground | 5mm | 300/20/24-12 | 300/20/30-12 | 1839850000 / - |
| 9528070000 | WDTR 2.5 | Double Dual-Level | 6mm | 300/10/22-12 | 300/17/26-12 | Not Required |

## Fuse Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1011000000 | WSI 6 | 5x20mm fuse | 8mm | 600/10/22-8 | 600/10/20-8 | 1050000000 / 1050100000 |
| 1011300000 | WSI 6/LD-24V† | 5x20mm fuse, 10-36VAC/DC | 8mm | 600/10/22-8 | 36/10/20-8 | 1050000000 / 1050100000 |
| 1119840000 | WSI 6/LD-24V LLC** | 5x20mm fuse, 10-36VAC/DC LLC (.5ma) | 8mm | 600/10/22-8 | 36/10/22-8 | 1050000000 / 1050100000 |
| 1012200000 | WSI 6/LD 48V† | 5x20mm fuse, 30-70VAC/DC | 8mm | 600/10/22-8 | 70/10/22-8 | 1050000000 / 1050100000 |
| 1119830000 | WSI 6/LD-48V LLC** | 5x20mm fuse, 30-70VAC/DC LLC(.5ma) | 8mm | 600/10/22-8 | 70/10/22-8 | 1050000000 / 1050100000 |
| 1012300000 | WSI 6/LD-110V† | 5x20mm fuse, 60-150VAC/DC | 8mm | 600/10/22-8 | 150/10/22-8 | 1050000000 / 1050100000 |
| 1119850000 | WSI 6/LD-110V LLC** | 5x20mm fuse, 60-150VAC/DC LLC(.5ma) | 8mm | 600/10/22-8 | 150/10/22-8 | 1050000000 / 1050100000 |
| 1014000000 | WSI 6/2 | 11/4"x1/4" fuse | 12mm | 600/20/22-8 | 600/16/20-6 | 1050000000 / 1050100000 |
| 1014100000 | WSI 6/2 LD-24V† | 11/4"x1/4" fuse, 10-36VAC/DC | 12mm | 600/10/22-8 | 36/16/22-8 | 1050000000 / 1050100000 |
| 1119800000 | WSI 6/2 LD-24V LLC** | 11/4"x1/4" fuse, 10-36VAC/DC LLC(.5ma) | 12mm | 600/10/22-8 | 36/16/20-6 | 1050000000 / 1050100000 |
| 1014200000 | WSI 6/2 LD-48V† | 11/4"x1/4" fuse, 30-70VAC/DC | 12mm | 600/10/22-8 | 70/16/20-6 | 1050000000 / 1050100000 |
| 1119810000 | WSI 6/2 LD-48V LLC** | 11/4"x1/4" fuse, 30-70VAC/DC LLC(.5ma) | 12mm | 600/10/22-8 | 70/16/20-6 | 1050000000 / 1050100000 |
| 1014300000 | WSI 6/2 LD-110V† | 11/4"x1/4" fuse, 60-150VAC/DC | 12mm | 600/10/22-8 | 150/16/20-6 | 1050000000 / 1050100000 |
| 1119820000 | WSI 6/2 LD-110V LLC** | 11/4"x1/4" fuse, 60-150VAC/DC LLC(.5ma) | 12mm | 600/10/22-8 | 150/16/20-6 | 1050000000 / 1050100000 |
| 2561900000 | WFS 4 | 5x20mm fuse | 6.1 mm | 300/10/22-10 | 300/10/22-10 | 1050000000 / 1050100000 |

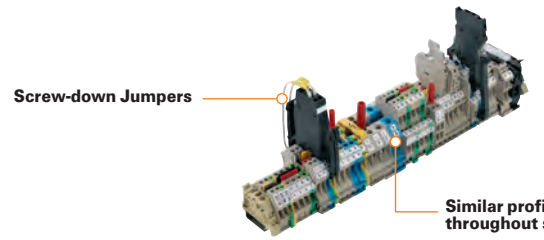
**Leakage Current Ratings: LLC-.5ma/Standard 2.5ma

†For Canada LLC option, change last digit to 1 - Example: 1011300001

## Ground Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1016200000 | WPE 2.5N | Single-Level | 5mm | - / - / 30 - 12 | - / - / 26 - 12 | 1060000000 |
| 1010000000 | WPE 2.5 | Single-Level | 5mm | - / - / 30 - 12 | - / - / 26 - 12 | 1050000000 |
| 1041620000 | WDK 2.5N/PE | Dual-Level | 5mm | - / - / 30 - 12 | - / - / 26 - 12 | 1084000000 |
| 1010100000 | WPE 4 | Single-Level | 6mm | - / - / 22 - 10 | - / - / 26 - 10 | Not Required |
| 1041920000 | WDK 4N/PE | Dual-Level | 6mm | - / - / 26 - 10 | - / - / 26 - 10 | 1084000000 |
| 1010200000 | WPE 6 | Single-Level | 8mm | - / - / 22 - 8 | - / - / 20 - 8 | Not Required |
| 1010300000 | WPE 10 | Single-Level | 10mm | - / - / 16 - 6 | - / - / 16 - 6 | Not Required |
| 1010400000 | WPE 16 | Single-Level | 12mm | - / - / 14 - 4 | - / - / 14 - 6 | Not Required |
| 1010500000 | WPE 35 | Single-Level | 16mm | - / - / 12 - 1 | - / - / 12 - 2 | Not Required |

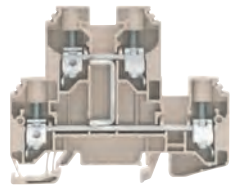
**Weidmüller Configurator (WMC)**
Create your configuration here:
www.weidmuller.com/wmc




| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527540000 * | 1527690000 * | 0383560000 | 2749330000 * | 1609801044 / 1609860000 |
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1609860000 |
| 1527930000 * | 1528090000 * | 1061200000 * | 2749340000 * | 1609820000 / 1609900000 |
| 1052360000 | 1052260000 | 1061200000 | 2749360000 * | 1856740000 / 1906000000 |
| 1052560000 | 1052460000 | 1061200000 | 2749380000 * | 1609840000 / 1609920000 |
| 1053260000 | 1053360000 | 1061200000 | 2749380000 * | 1609840000 / 1609920000 |
| 1053060000 | 1053160000 | 1061200000 | 2749390000 * | 1609840000 / 1609920000 |

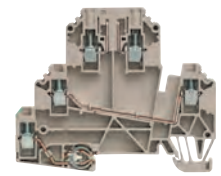
**WDU 2.5**
Improve panel real estate - Small (5mm) width = 60 pts. per foot

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1609860000 |
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1609860000 |
| 1527540000 * | 1527690000 * | 1061200000 * | 2749330000 * | 1609801044 / 1640740000 |
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| 1527540000 * | 1527690000 | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| 1527540000 * | 1527690000 | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| 1527930000 * | 1528090000 * | 1061200000 | 2749330000 * | 1609820000 / 1951880000 |
| 1527930000 * | 1528090000 * | 1061200000 | 2749330000 * | 1609820000 / 1951880000 |
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| 1527930000 * | 1528090000 * | 1061200000 | 2749330000 * | 1609820000 / 1951880000 |
| 1052560000 | 1052460000 | 1061200000 | 2749380000 * | 1609820000 / 1951880000 |
| 1052560000 | 1052460000 | 1061200000 | 2749380000 * | 1609820000 / 1951880000 |



**WDK10V**
Compact hi-current approval - Dual-level rated at 65A/6AWG

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1609860000 |
| 1527540000 * | 1527690000 * | 1061200000 | 2749330000 * | 1609801044 / 1609860000 |
| 1608860000 | 1608940000 | 1061200000 | 2749330000 * | 1609801044 / 1609860000 |
| 1527930000 * | 1528090000 * | 1061200000 | 2749330000 * | 1609820000 / 1609900000 |
| 1527930000 * | 1528090000 * | 1061200000 | 2749330000 * | 1609820000 / 1609900000 |
| 1527930000 * | 1528090000 * | 1061200000 | 2749330000 * | 1609820000 / 1609900000 |
| 1053660000 | 1054460000 | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| 1053660000 | 1054460000 | 1061200000 | 2749330000 * | 1609801044 / 1640740000 |
| - | - | 1061200000 | 2749330000 * | 1609820000 / 1951880000 |



**WDK 2.5 TR/DU/PE**
Reduce space requirement - 3-wire analog loop to one terminal

| 24A Jumpers: 58-pole Straight/Angled | 24A Jumpers: 75-pole[3] Straight/Angled | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |
| 0545400000 / 0545300000 [1] | 0535200000 / 0526400000 [2] | 1061200000 | 2749360000* | 1609840000 / 1609920000 |

**WSI 6**
Wide selection - blown fuse or non-indication options

[1] Insulation profile Black: 0546000000 Blue: 0546080000 Red: 0546040000
[2] Insulation profile Black: 0526700000 Blue: 0526780000 Red: 0526760000

[3] For WSI 6/2 cross-connect QB 75 is 6mm pitch. Every other pole will need to be removed to create 12mm pitch to fit WSI 6/2 block.

| Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|
| 2749330000* | 1609801044 / 1609860000 |
| 2749330000* | 1609801044 / 1609860000 |
| 2749330000* | 1609801044 / 1640740000 |
| 2749330000* | 1609820000 / 1609900000 |
| 2749340000* | 1609820000 / 1951880000 |
| 2749360000* | 1856740000 / 1906000000 |
| 2749380000* | 1609840000 / 1609920000 |
| 2749380000* | 1609840000 / 1609920000 |
| 2749390000* | 1609920000 / 1609920000 |

**WFS 4**
Fuse terminal, Screw connection

**WPE 2.5**
Best grounding - grounding clips make contact to both sides of rail

Pluggable Screw-down Uninsulated

* indicates new order number

# W Series Screw Clamp

## Color Feed Through Terminal Blocks

- Multiple colors provide clear circuit identification
- Terminals can be mounted to TS 35 DIN-rail in either direction
- Visual indication to identify open-sided adjacent terminals

SCCR 508A 100kA

Color Feed Through

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition | Jumpers: 2-pole | Jumpers: 10-pole | Marking Tags- Blank (MultiCard/MultiMark)) |
|---|---|---|---|---|---|---|---|---|---|
| **1020000000** | WDU 2.5 | Beige | 5mm | 600/25/26-12 | 600/25/26-12 | 1050000000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1020080000** | WDU 2.5 BL | Blue | 5mm | 600/25/26-12 | 600/25/26-12 | 1050080000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1020060000** | WDU 2.5 OR | Orange | 5mm | 600/25/26-12 | 600/25/26-12 | 1050060000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1020040000** | WDU 2.5 RD | Red | 5mm | 600/25/26-12 | 600/25/26-12 | 1050040000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1020020000** | WDU 2.5 YL | Yellow | 5mm | 600/25/26-12 | 600/25/26-12 | 1050020000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1020090000** | WDU 2.5 GN | Green | 5mm | 600/25/26-12 | 600/25/26-12 | 1072200000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1037700000** | WDU 2.5 VI | Violet | 5mm | 600/25/26-12 | 600/25/26-12 | 1072210000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1037710000** | WDU 2.5 BR | Brown | 5mm | 600/25/26-12 | 600/25/26-12 | 1050070000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1036800000** | WDU 2.5 WH | White | 5mm | 600/25/26-12 | 600/25/26-12 | 1050090000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |
| **1020010000** | WDU 2.5 BK | Black | 5mm | 600/25/26-12 | 600/25/26-12 | 1050010000/1050100000 | 1527540000* | 1527690000* | 1609801044/1609860000 |

Single-level  Pluggable

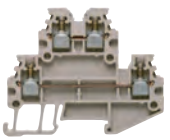
| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition | Jumpers: 2-pole | Jumpers: 10-pole | Marking Tags- Blank (MultiCard/MultiMark) |
|---|---|---|---|---|---|---|---|---|---|
| **1020100000** | WDU 4 | Beige | 6mm | 600/35/22-10 | 600/35/26-10 | 1050000000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1020180000** | WDU 4 BL | Blue | 6mm | 600/35/22-10 | 600/35/26-10 | 1050080000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1036760000** | WDU 4 OR | Orange | 6mm | 600/35/22-10 | 600/35/26-10 | 1050060000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1020140000** | WDU 4 RD | Red | 6mm | 600/35/22-10 | 600/35/26-10 | 1050040000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1020120000** | WDU 4 YL | Yellow | 6mm | 600/35/22-10 | 600/35/26-10 | 1050020000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1020160000** | WDU 4 GN | Green | 6mm | 600/35/22-10 | 600/35/26-10 | 1072200000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1037820000** | WDU 4 VI | Violet | 6mm | 600/35/22-10 | 600/35/26-10 | 1072210000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1037810000** | WDU 4 BR | Brown | 6mm | 600/35/22-10 | 600/35/26-10 | 1050070000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1036700000** | WDU 4 WH | White | 6mm | 600/35/22-10 | 600/35/26-10 | 1050090000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |
| **1020110000** | WDU 4 BK | Black | 6mm | 600/35/22-10 | 600/35/26-10 | 1050010000/1050100000 | 1527930000* | 1528090000* | 1609820000/1609900000 |

Single-level  Pluggable

## Micro Series: Single and Dual Level Feed Through - TS15 DIN-Rail

- Compact size accommodates 87 points per 12" of DIN-rail

WDU 1.5/R3.5



WDK 1.5/R3.5

WPE 1.5/R3.5

### Feed Through

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition | Jumpers: 2-pole | Jumpers: 10-pole | Marking Tags- Blank (MultiCard/MultiMark) |
|---|---|---|---|---|---|---|---|---|---|
| **1753280000** | WDU 1.5/R3.5 | Terminal | 3.5mm | 300/10/26-14 | 300/10/26-14 | 1754190000 /- | 1754210000 | 1754290000 | 1755270000 |
| **1753290000** | WDK 1.5/R3.5 | Dual-Level Terminal | 3.5mm | 300/10/26-14 | 300/10/26-14 | 1754200000 /- | 1754210000 | 1754290000 | 1755270000 |

Pluggable

### Ground Single-Level Feed Through

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition | Jumpers: 2-pole | Jumpers: 10-pole | Marking Tags |
|---|---|---|---|---|---|---|---|---|---|
| **1798460000** | WPE 1.5/R3.5 | Ground Terminal | 3.5mm | -/-/26-18 | -/-/26-18 | 1754190000/- | | | 1755270000 |

## Thermocouple Terminal Blocks

- Terminal current bars made of metals to match potential thermocouple types
- Eliminates cold-junction points caused by unmatched metals
- For use in control circuits where thermocouple wire is used
- Marking according to ANSI standards

Thermocouple

| Order Number | Type | Description | Width | V/A/AWG - UL/CSA | End Plate/Partition | Marking Tag |
|---|---|---|---|---|---|---|
| **1024100000** | WDU 2.5/TC - K | 2-terminals, Type - K | 10mm | 600/20/26-12 | 1050000000/1050100000 | Comes pre-labeled |
| **1024200000** | WDU 2.5/TC - T | 2-terminals, Type - T | 10mm | 600/20/26-12 | 1050000000/1050100000 | Comes pre-labeled |
| **1024300000** | WDU 2.5/TC - J | 2-terminals, Type - J | 10mm | 600/20/26-12 | 1050000000/1050100000 | Comes pre-labeled |
| **1024400000** | WDU 2.5/TC - S | 2-terminals, Type - S | 10mm | 600/20/26-12 | 1050000000/1050100000 | Comes pre-labeled |
| **1033300000** | WDU 2.5/TC - E | 2-terminals, Type - E | 10mm | 600/20/26-12 | 1050000000/1050100000 | Comes pre-labeled |

Note: ID number stamped into current bar

*** indicates new order number**

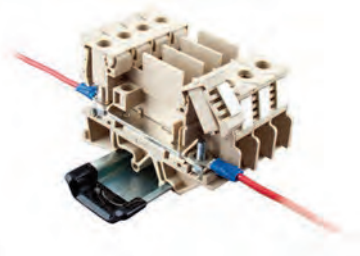
## Ring Lug Feed Through and Disconnect Terminals

- Wire termination with ring lugs
- Hinged shroud
- Screw down jumpers

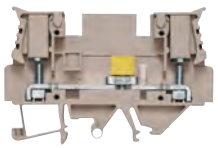
| Order Number | Type | Description | V | A | AWG | End Plate |
|---|---|---|---|---|---|---|
| **1887210000** | WTL 6/4FF* | CT Circuit, Disconnect | 600 | 30 | 20...10 | 1887240000 |
| **1887220000** | WTD 6/4FF* | CT Circuit, Feed through | 600 | 30 | 20...10 | 1887240000 |
| **7940098769*** | ST 5N/EN | Single Level-Stud, Feed through | 600 | 35 | 22...8 | 7940099149* |
| **7940098877*** | ST 6/EN | Single Level-Stud, Feed through | 600 | 40 | 26...10 | 7940099140* |
| **7940099083*** | ST 25/EN | Single Level-Stud, Feed through | 600 | 100 | 20...3 | 7940099074* |
| **7940098707*** | ST 5/EN | Single Level-Screw, Feed through | 600 | 35 | 20...10 | 7940098856* |
| **7940125384*** | ST 5P/EN | Single Level-Screw, Feed through | 600 | 35 | 20...10 | 7940098856* |

*2-pole jumper accessory: 1739680000

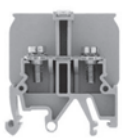
* indicates new order number



WTL/WTD 6/4 ASSY



WTL 6/4 FF

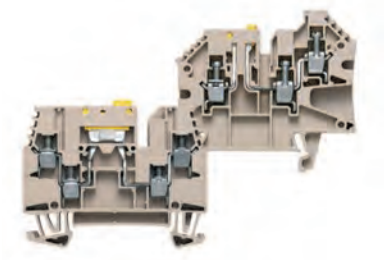


ST5P/EN

## Disconnect Terminals

- Features built-in cross-connection
- Quickly converts to fuse terminal using SIHA fuse holder

| Order Number | Type | Description | V | A | AWG | End Plate |
|---|---|---|---|---|---|---|
| **1039900000** | WTR 2.5/ZZ | Branch Disconnect, 4-clamps, 5mm width | 300 | 10 | 26...12 | 1074600000 |
| **1905090000** | WTR 4/ZZ | Branch Disconnect, 4-clamps, 6mm width | 600 | 30 | 30...10 | 1905070000 |
| **1905080000** | WTR 4/ZR | Branch Disconnect, 3-clamps, 6mm width | 600 | 30 | 30...10 | 1905070000 |

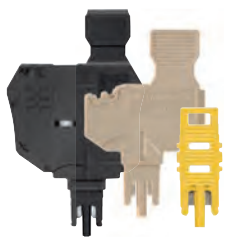


WTR 2.5/ZZ and WTR 4/ZR

## Accessories

| Order Number | Type | Description |
|---|---|---|
| **1833090000** | TNST | Disconnect Pull Pin |
| **1833100000** | BEST | Component Plug |
| **7921560000** | SIHA 3* | Fuse Plug |

*LED version of SIHA 3 also available. Call Weidmuller for details.

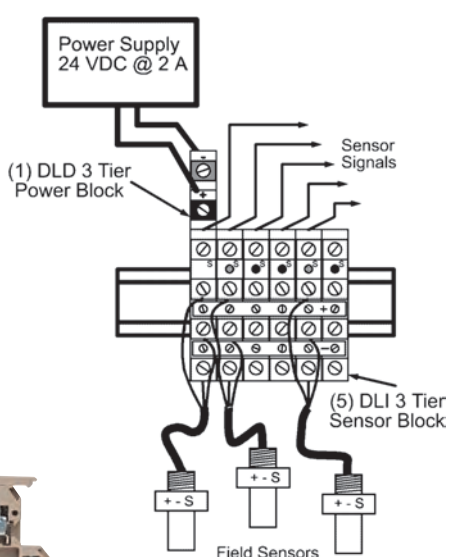


SIHA, BEST and TNST

## Multi-Tier Sensor Actuator Terminals

The following products are now made of Wemid molding material. Wemid withstands a continuous operating temperature of 120°C/248°F and has earned the highest possible flammability rating in its class: UL 94 V-0 (non-burning).

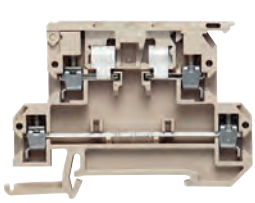
| Order Number | Type | Description | V | A | AWG | End Plate |
|---|---|---|---|---|---|---|
| **1783790000** | DLD 2.5 | Multiple-level sensor terminal blocks | 250 | 10 | 26...10 | 1783550000 |
| **1783820000** | DLI 2.5 | Multiple-level sensor terminal blocks | 300 | 10 | 22...12 | 1783550000 |
| **7917030000** | MAK 2.5 | Triple-level terminal block with ground | 300 | 10 | 22...12 | 7917000000 |
| **9532440000** | KDKS 1 | Fuse with feed-through terminal block | 250 | 10 | 26...12 | 9532470000 |
| **9532450000** | KDKS 1 PE | Fuse with feed-through terminal block/gnd. | 250 | 10 | 26...12 | 9532470000 |



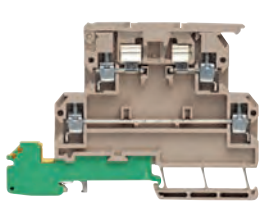

Example: Three Sensor Hook-up Diagram

DLI 2.5

DLD 2.5



KDKS 1/35



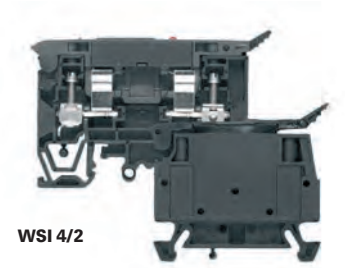
KDKS 1 PE

## Fuse Terminals

- Combi-foot for mounting on TS 32 or TS 35 DIN-rail
- Interlocking of levers for multiple phase disconnection
- Rated at 300 V, 15 A, 30...10 AWG

| Order Number | Type | Description | End Plate |
|---|---|---|---|
| 1880430000 | WSI 4/2 - 1 1/4" x 1/4" | Fuse | 1880450000 |
| 1880410000 | WSI 4/2/LD (10-36 V) - 1 1/4" x 1/4" | Fuse | 1880450000 |
| 1886580000* | WSI 4 - 5 x 20 mm | Fuse | — |
| 1886590000* | WSI 4/LD (10-36 V) - 5 x 20 mm | Fuse | — |

*TS 35 DIN-rail Mountable Only



WSI 4/2

| Order Number | Type | Description | V | A | AWG | End Plate |
|---|---|---|---|---|---|---|
| 1763940000 | WTR 2.5/SI | Pluggable Fuse, 5mm width | 300 | 6.3 | 30...12 | 1050000000 |
| 7910240000 | WTR 4/SI | Pluggable Fuse, 6mm width | 300 | 6.3 | 22...10 | 1050000000 |

WFS 4

WTR 2.5/SI

| Order Number | Type | Description | V | Dimensions |
|---|---|---|---|---|
| 2561900000 | WFS 4 | Fuse Terminal | 10-36V AC/DC | 5x20mm |
| 2562070000 | WFS 4/LED | Fuse Terminal | 10-36V AC/DC | 5x20mm |
| 2561990000 | WFS 4/LED | Fuse Terminal | 30-70V AC/DC | 5x20mm |
| 2561960000 | WFS 4/LED | Fuse Terminal | 100-250V AC/DC | 5x20mm |

## WSI 25 Midget Fuse Terminals

- 1, 2 and 3 pole versions; 35 mm DIN-rail mountable
- Only 17.8 mm wide per pole
- Lever mechanism for quick and safe fuse replacement
- Vented housing to reduce internal heating and extend fuse life (3W Max.)
- UL512 branch circuit protection rating

SCCR 508A 200kA

| Order Number | Order Number 1000 V | Type* | Description | V | A | AWG |
|---|---|---|---|---|---|---|
| 1966020000 | 1137790000 | WSI 25/1 | 1 pole, 10x38mm fuse | 600 | 30 | 18...4 |
| 1966090000 | | WSI 25/2 | 2 pole, 10x38mm fuse | 600 | 30 | 18...4 |
| 1966080000 | | WSI 25/3 | 3 pole, 10x38mm fuse | 600 | 30 | 18...4 |
| 1966060000 | 1137780000 | WSI 25/1 LED | 1 pole, 10x38mm fuse, w/indication | 600 | 30 | 18...4 |
| 7940029427 | | WSI 25/2 LED | 2 pole, 10x38mm fuse, w/indication | 600 | 30 | 18...4 |
| 7940029428 | | WSI 25/3 LED | 3 pole, 10x38mm fuse, w/indication | 600 | 30 | 18...4 |
| 1966050000 | | WSI 25/1 CC | 1 pole, Class CC fuse | 600 | 30 | 18...4 |
| 1966040000 | | WSI 25/2 CC | 2 pole, Class CC fuse | 600 | 30 | 18...4 |
| 1966030000 | | WSI 25/3 CC | 3 pole, Class CC fuse | 600 | 30 | 18...4 |
| 1966070000 | | WSI 25/1 CC/LED | 1 pole, Class CC fuse w/indication | 600 | 30 | 18...4 |
| 1444210000 | | WSI 25/2 CC/LED | 2 pole, Class CC fuse w/indication | 600 | 30 | 18...4 |
| 1444220000 | | WSI 25/3 CC/LED | 3 pole, Class CC fuse w/indication | 600 | 30 | 18...4 |

*CC denotes CC fuseholder

### Accessories

* indicates new order number

| Order Number | Description |
|---|---|
| 7940125469* | SET 2 POLE WSI 25 Ganging kit |
| 7940125470* | SET 3 POLE WSI 25 Ganging kit |
| 7940125371* | Single Pole Busbar for WSI 25/1 (1 meter) |

## Pluggable Circuit Breaker Terminals

Our thermal circuit breaker type 1180 reduces stoppages and downtime. In combination with a modular style terminal block the circuit breaker offers individual protection for every circuit.

Circuit Breaker

Terminal Block Bases

### Circuit Breakers

- All amperage available from 0.1A to 10.0A
- Push button resettable circuit breaker
- Terminal block sized breaker base only 9mm wide

| Order Number | Type |
|---|---|
| 1278860000 | ETA 1180 01 0.25A |
| 1278910000 | ETA 1180 01 0.50A |
| 1278950000 | ETA 1180 01 1.00A |
| 1278970000 | ETA 1180 01 2.00A |

## Terminal Block Bases

- Screw type or tension (spring) type terminal options
- Circuit breaker status indication available with LEDs
- Only 6mm wide
- 12 V and 24 V LED versions
- cRUus, CE, RoHS approvals

| Order Number | Type | Description |
|---|---|---|
| 7940108385* | 10plus-ST-201 | Black Terminal Block Screw Clamp terminal with spacer 3mm |
| 7940112375* | 10plus-ST-202 | Black Terminal Block LED 24VDC Screw Clamp with spacer 3mm |
| 7940109767* | 10plus-ST-203 | Black Terminal Block LED 12VDC Screw Clamp with spacer 3mm |
| 7940112376* | 10plus-XT-201 | Black Terminal Block Tension Clamp terminal with spacer 3mm |
| 7940112377* | 10plus-XT-202 | Black Terminal Block LED 24VDC Tension Clamp terminal with spacer 3mm |
| 7940112378* | 10plus-XT-203 | Black Terminal Block LED 12VDC Tension Clamp terminal with spacer 3mm |
| 7940108406* | X22223202 | 12 pole insulated jumper |

* indicates new order number

## WPD 104 - 113 Color Coded Power Distribution Terminal Series

- Colors correspond to power coded circuit wiring, offered in Red, Black, Clear and Blue
- UL & CSA approved – up to 1000V, 30 - 310A, AWG 14 - 350 MCM
- Compact design can be mounted on DIN rail or direct mounted
- Multiple pole bussing is possible with insulated bus bars (2 and 3 pole)
- Power Blocks meet UL 508-A 200kA rating when used with fuses

| | | | | | | |
|---|---|---|---|---|---|---|
| **Order Number Clear** | **1562000000** | **1562150000** | **1562160000** | **1562170000** | **1562180000** | **1562190000** |
| **Order Number *Red** | **2725260000** | **2725290000** | **2725300000** | **2725310000** | **2725320000** | **2725330000** |
| **Order Number *Blue** | **2518250000** | **2518330000** | **2518340000** | **2518540000** | **2516470000** | **2521770000** |
| **Order Number *Black** | **2725360000** | **2725390000** | **2725400000** | **2725410000** | **2725420000** | **2725430000** |
| Type Type | WPD 104 - Single Pole | WPD 204 - Single Pole* | WPD 304 - Single Pole* | WPD 105 - Single Pole | WPD 205 - Single Pole* | WPD 305 - Single Pole* |
| V/A / AWG (UL/CSA) | 600/85/16 - 6 | 600/85/16 - 6 | 600/85/16 - 6 | 600/115/16 - 4 | 600/115/16 - 4 | 600/115/16 - 4 |
| Dimensions - inches (W x L x H) | 1.31" x 1.93" x 2.68" | 2.54" x 1.93" x 2.68" | 3.78" x 1.93" x 2.68" | 1.46" x 2.12" x 2.76" | 2.86" x 2.12" x 2.76" | 4.35" x 2.12" x 2.76" |
| **Line Input Wire Range** | | | | | | |
| Number of Connections (By Position) | 1 - Mid/Left<br>1 - Mid/Right | 2 - Mid/Left<br>2 - Mid/Right | 3 - Mid/Left<br>3 - Mid/Right | 1 - Mid/Left<br>1 - Mid/Right | 2 - Mid/Left<br>2 - Mid/Right | 3 - Mid/Left<br>3 - Mid/Right |
| Mid/Left | 14 - 4 AWG | 14 - 4 AWG | 14 - 4 AWG | 12 - 2 AWG | 12 - 2 AWG | 12 - 2 AWG |
| Mid/Right | 16 - 6 AWG | 16 - 6 AWG | 16 - 6 AWG | 14 - 4 AWG | 14 - 4 AWG | 14 - 4 AWG |
| **Load Output Wire Range** | | | | | | |
| Number of Connections | 3 - Top<br>2 - Bottom | 6 - Top<br>4 - Bottom | 9 - Top<br>6 - Bottom | 3 - Top<br>2 - Bottom | 6 - Top<br>4 - Bottom | 9 - Top<br>6 - Bottom |
| Top | 16 - 8 AWG | 16 - 8 AWG | 16 - 8 AWG | 16 - 6 AWG | 16 - 6 AWG | 16 - 6 AWG |
| Bottom | 16 - 6 AWG | 16 - 6 AWG | 16 - 6 AWG | 14 - 4 AWG | 14 - 4 AWG | 14 - 4 AWG |
| | | | | | | |
| Marker ESG 9/17 K | 1674760000 | 1674760000 | 1674760000 | 1674760000 | 1674760000 | 1674760000 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Order Number Clear** | **1562210000** | **1562220000** | **1562100000** | **1562090000** | **2603790000** | **2603740000** |
| **Order Number *Red** | **2725340000** | **2725350000** | **2725280000** | **2725270000** | **2730310000** | **2730350000** |
| **Order Number *Blue** | **2518570000** | **2521730000** | **2519480000** | **2519490000** | **2603800000** | **2603750000** |
| **Order Number *Black** | **2725440000** | **2725450000** | **2725380000** | **2725370000** | **2730320000** | **2730360000** |
| Type Type | WPD 106 - Single Pole | WPD 107 - Single Pole | WPD 108 - Single Pole | WPD 109 - Single Pole | WPD 111 - Single Pole | WPD 113 - Single Pole |
| V/A / AWG (UL/CSA) | 600/150/16 - 4 | 600/200/16 - 4 | 600/250/4 - 250 | 600/310/3/0 - 350 | 1000/230/14 - 4/0 | 1000/310/14 - 350 |
| Dimensions - inches (W x L x H) | 1.62" x 2" x 2.94" | 2.07" x 2.13" x 2.88" | 2.07" x 2.64" x 3.70" | 2.08" x 2.64" x 3.70" | 1.44" x 2.73" x 4.13" | 2.46" x 3.16" x 4.97" |
| **Line Input Wire Range** | | | | | | |
| Number of Connections (By Position) | 1 - Mid/Mid | 1 - Mid/Left<br>1 Mid/Mid 1 - Mid/Right | 1 - Mid/Mid | 1 - Mid/Mid | 1 - Mid/Mid | 1 - Mid/Left<br>1 - Mid/Right |
| Mid/Left | | 22 - 0 AWG | | | | 1/0 AWG - 300 MCM |
| Mid/Mid | 18 - 000 | 18 - 250MCM | 2 - 250MCM | 3/0 - 350MCM | 6 - 4/0 AWG | |
| Mid/Right | | 22 - 0 AWG | | | | 2/0 AWG - 300 MCM |
| **Load Output Wire Range** | | | | | | |
| Number of Connections | 3 - Top<br>2 - Bottom | 4 - Top<br>4 - Bottom | 3 - Top<br>4 - Mid 2 - Bottom | 3 - Top<br>4 - Mid 2 - Bottom | 2 - Top<br>2 - Bottom | 4 - Top<br>4 - Bottom |
| Top | 16 - 6 AWG | 14 - 4 AWG | 14 - 4 AWG | 14 - 4 AWG | 14 - 2 AWG | 14 - 2 AWG |
| Middle | | | 14 - 4 AWG | 14 - 4 AWG | - | |
| Bottom | 14 - 4 AWG | 14 - 4 AWG | 12 - 2 AWG | 12 - 2 AWG | 14 - 2 AWG | 14 - 2 AWG |

* Pre-assembled with Bridge

## Power Distribution Blocks
## WPDP 70, 185 Terminal Series

- Power blocks meet UL 508-A 100 kA rating when used with fuses
- IEC finger-safe design for use with aluminum and copper conductors

| Order Number | Type* | Description | V | A | AWG |
|---|---|---|---|---|---|
| **1879460000** | WPDB 70 1-1 AL | 1 input to 1 load outputs, 25.4mm width | 600 | 175 | 2/0...14 |
| **1879480000** | WPDB 70/35 1-4 AL | 1 input to 4 load outputs, 28.4mm width | 600 | 175 | 2/0...14 |
| **1879400000** | WPDB 185 1-1 AL | 1 input to 1 load outputs, 39mm width | 600 | 250 | 400...6 |
| **1879420000** | WPDB 185/35 1-8 AL | 1 input to 8 load outputs, 47mm width | 600 | 310 | 350...6 |

*AL denotes Aluminum

## Z Series Tension Clamp

- Series offers the broadest selection of Tension Clamp termination configurations
- One of the fastest termination technologies available
- Offers gas-tight connection to prevent unwanted voltage drops
- Meets all industry approvals including UL508A SCCR requirements (100kA interrupt rating)
- Tension Clamp design guarantees a positive connection that is 100% vibration proof

### Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1775480000 | ZDU 1.5 | Single-Level | 3.5mm | 300/15/30-14 | 300/20/26-14 | 1776030000/- |
| 1608510000 | ZDU 2.5 | Single-Level | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000/- |
| 1632050000 | ZDU 4 | Single-Level | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000/- |
| 1608620000 | ZDU 6 | Single-Level | 8mm | 600/50/22-8 | 600/50/20-8 | 1608830000/- |
| 1746750000 | ZDU 10 | Single-Level | 10mm | 600/60/16-6 | 600/55/16-6 | 1748660000/- |
| 1745230000 | ZDU 16 | Single-Level | 12mm | 600/65/14-4 | 600/65/14-4 | 1745150000/- |
| 1739620000 | ZDU 35 | Single-Level | 16mm | 600/120/12-2 | 600/120/12-2 | Not Required/- |

### Feed Through Terminal Blocks - Multi-Level

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1674300000 | ZDK 2.5 | Dual-Level | 5mm | 300/15/26-12 | 300/25/26-12 | 1674730000/- |
| 1689990000 | ZDK 2.5 Vertical | Branch Dual-Level | 5mm | 300/15/26-12 | 300/25/26-12 | 1674730000/- |
| 1782300000 | ZDLD 2.5-2N | 3-Level | 5mm | 300/25/26-12 | 300/15/26-12 | 1782340000/- |
| 1768000000 | ZMAK 2.5 | 3-Level, w/ground | 5mm | 300/25/26-12 | 300/25/26-12 | 1768010000/- |
| 1775530000 | ZDU 1.5/3AN | Branch- 3 clamps | 3.5mm | 300/15/30-14 | 300/20/26-12 | 1776060000/- |
| 1775580000 | ZDU 1.5/4AN | Branch- 4 clamps | 3.5mm | 300/15/30-14 | 300/20/26-12 | 1776090000/- |
| 1608540000 | ZDU 2.5/3AN | Branch- 3 clamps | 5mm | 600/25/30-12 | 600/27/26-12 | 1608770000/- |
| 1608570000 | ZDU 2.5/4AN | Branch- 4 clamps | 5mm | 600/25/30-12 | 600/27/26-12 | 1608800000/- |
| 7904180000 | ZDU 4/3AN | Branch- 3 clamps | 6mm | 600/33/26-10 | 600/35/26-10 | 7904100000/- |
| 7904290000 | ZDU 4/4AN | Branch- 4 clamps | 6mm | 600/33/26-10 | 600/35/26-10 | 7904210000/- |
| 7907410000 | ZDU 6/3AN | Branch- 3 clamps | 8mm | 600/50/22-8 | 600/50/20-8 | 7907370000/- |
| 1767690000 | ZDU 10/3AN | Branch- 3 clamps | 10mm | 600/60/16-6 | 600/55/16-6 | 1749580000/- |
| 1768320000 | ZDU 16/3AN | Branch- 3 clamps | 12mm | 600/65/14-4 | 600/65/14-4 | 1749580000/- |

* V denotes: Upper and lower tier linked

### Disconnect Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1831280000 | ZTR 2.5 | Single-Level | 5mm | 600/20/30-12 | 300/10/26-12 | 1608740000/- |
| 8731720000 | ZTR 2.5/3AN | Branch - 3 clamps | 5mm | 600/20/30-12 | 300/15/26-12 | 1608800000/- |
| 7920900000 | ZTR 2.5/4AN | Branch - 4 clamps | 5mm | 300/10/30-12 | 300/10/26-12 | 1608800000/- |
| 1745400000 | ZDTR 2.5 | 2 Dual-Levels - 4 clamps | 5mm | 600/22/22-10 | 300/10/26-12 | 1745420000/- |

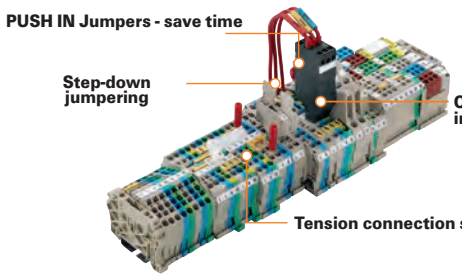
### Fuse Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1616400000 | ZSI 2.5 | 5x20mm fuse | 8mm | 600/10/26-12 | 600/15/26-12 | 1608800000/- |
| 1616440000 | ZSI 2.5 LD-24V | 5x20mm fuse, 10-36VAC/DC | 8mm | 600/10/26-12 | 600/15/26-12 | 1608800000/- |
| 1616430000 | ZSI 2.5 LD-48V | 5x20mm fuse, 30-70VAC/DC | 8mm | 600/10/26-12 | 600/15/26-12 | 1608800000/- |
| 1616420000 | ZSI 2.5 LD-120V | 5x20mm fuse, 60-150VAC/DC | 8mm | 600/10/26-12 | 600/15/26-12 | 1608800000/- |
| 1616410000 | ZSI 2.5 LD-250V | 5x20mm fuse, 140-250VAC/DC | 8mm | 600/10/26-12 | 600/15/26-12 | 1608800000/- |
| 1616460000 | ZSI 2.5/2 | 11/4"x1/4" fuse | 12mm | 600/16/26-12 | 600/15/26-12 | 1608800000/- |
| 1616470000 | ZSI 2.5/2 LD-24V | 11/4"x1/4" fuse, 10-36VAC/DC | 12mm | 600/16/26-12 | 600/15/26-12 | 1749580000/- |
| 1616480000 | ZSI 2.5/2 LD-48V | 11/4"x1/4" fuse, 30-70VAC/DC | 12mm | 600/16/26-12 | 600/15/26-12 | 1749580000/- |
| 1616490000 | ZSI 2.5/2 LD-110V | 11/4"x1/4" fuse, 60-150VAC/DC | 12mm | 600/16/26-12 | 600/15/26-12 | 1749580000/- |
| 1616500000 | ZSI 2.5/2 LD-250V | 11/4"x1/4", 140-250VAC/DC | 12mm | 600/16/26-12 | 600/15/26-12 | 1749580000/- |

### Ground Terminal Blocks

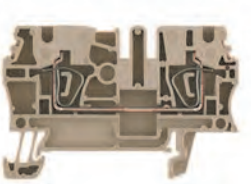
| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1775510000 | ZPE 1.5 | Single-Level | 3.5mm | -/-/30-14 | -/-/26-14 | 1776030000/- |
| 1608640000 | ZPE 2.5 | Single-Level | 5mm | -/-/30-12 | -/-/26-12 | 1608740000/- |
| 1608650000 | ZPE 2.5/3AN | Branch - 3 clamps | 5mm | -/-/30-12 | -/-/26-12 | 1608770000/- |
| 1608660000 | ZPE 2.5/4AN | Branch - 4 clamps | 5mm | -/-/30-12 | -/-/26-12 | 1608800000/- |
| 1632080000 | ZPE 4 | Single-Level | 6mm | -/-/26-10 | -/-/26-10 | 1632090000/- |
| 7904170000 | ZPE 4/3AN | Branch - 3 clamps | 6mm | -/-/26-10 | -/-/26-10 | 7904210000/- |
| 7904280000 | ZPE 4/4AN | Branch - 4 clamps | 6mm | -/-/26-10 | -/-/26-10 | 7904210000/- |
| 1608670000 | ZPE 6 | Single-Level | 8mm | -/-/22-8 | -/-/20-8 | 1608830000/- |
| 7907400000 | ZPE 6/3AN | Branch - 3 clamps | 8mm | -/-/22-8 | -/-/20-8 | 7907370000/- |
| 1746770000 | ZPE 10 | Single-Level | 10mm | -/-/16-6 | -/-/16-6 | 1748660000/- |
| 1767670000 | ZPE 10/3AN | Branch - 3 clamps | 10mm | -/-/16-6 | -/-/16-6 | 1749580000/- |
| 1745250000 | ZPE 16 | Single-Level | 12mm | -/-/14-4 | -/-/14-4 | 1745150000/- |
| 1768310000 | ZPE 16/3AN | Branch - 3 clamps | 12mm | -/-/14-4 | -/-/14-4 | 1749580000/- |
| 1739650000 | ZPE 35 | Single-Level | 16mm | -/-/12-2 | -/-/12-2 | Not Required |

**Weidmüller Configurator (WMC)**
Design software to select/build assemblies to your specifications.
www.weidmuller.com/wmc




| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1776120000 | 1776200000 | 9540000000 | 2749260000* | 1755270000 / 1778270000 |
| 1608860000 | 1608940000 | 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 1608950000 | 1609030000 | 9540000000 | 2749340000* | 1609820000 / 1828450000 |
| 1627850000 | - | 9540000000 | 2749380000* | 1856740000 / 1906000000 |
| 1739680000 | - | 9540000000 | 2749380000* | 1856740000 / 1906000000 |
| 1739690000 | - | 9540000000 | 2749380000* | 1856740000 / 1906000000 |
| 1739700000 | - | 9540000000 | 2749380000* | 1856740000 / 1906000000 |

Pluggable  Uninsulated



**ZDU 2.5**
**Single-level feed through**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1608860000 | 1608940000 | 9540000000 | 2749340000* | 1609801044 / 1640740000 |
| 1608860000 | 1608940000 | 9540000000 | 2749340000* | 1609801044 / 1640740000 |
| 1608860000 | 1608940000 | 9540000000 | 2749340000* | 1609801044 / 1640740000 |
| - | - | 9540000000 | 2749340000* | 1609801044 / 1640740000 |
| 1776120000 | 1776200000 | 9540000000 | 2749260000* | 1755270000 / 1778270000 |
| 1776120000 | 1776200000 | 9540000000 | 2749260000* | 1755270000 / 1778270000 |
| 1608860000 | 1608940000 | 9540000000 | 2749340000* | 1609801044 / 1640740000 |
| 1608860000 | 1608940000 | 9540000000 | 2749340000* | 1609801044 / 1640740000 |
| 1608950000 | 1609030000 | 9540000000 | 2749340000* | 1609820000 / 1951880000 |
| 1608950000 | 1609030000 | 9540000000 | 2749340000* | 1609820000 / 1951880000 |
| 1627850000 | - | 9540000000 | 2749380000* | 1856740000 / 1906000000 |
| 1796800000 | - | 8630740000 | 2749380000* | 1856740000 / 1906000000 |
| - | - | 8630740000 | 2749380000* | 1856740000 / 1906000000 |

Pluggable  Uninsulated

**ZDU 2.5/3AN**
**Branch feed through**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1608860000 | 1608890000 | 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 1608860000 | 1608890000 | 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 1608860000 | 1608890000 | 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 1527540000* | 1527690000* | 9540000000 | 2749340000* | 1609801044 / 1635000000 |

Pluggable  Uninsulated

**ZTR 2.5**
**Single-level disconnect**

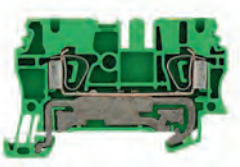
| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1627850000 | 1627870000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1627850000 | 1627870000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1627850000 | 1627870000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1627850000 | 1627870000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1627850000 | 1627870000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1633200000 | 1633220000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1633200000 | 1633220000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1633200000 | 1633220000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1633200000 | 1633220000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |
| 1633200000 | 1633220000 | 9540000000 | 2749340000* | 1856740000 / 1906000000 |

Pluggable  Uninsulated

**ZSI 2.5**
**Single-level fuse**

| End Brackets | Screwdriver | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|
| 9540000000 | 2749260000* | 1755270000 / 1778270000 |
| 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 9540000000 | 2749340000* | 1609801044 / 1635000000 |
| 9540000000 | 2749340000* | 1609820000 / 1828450000 |
| 9540000000 | 2749340000* | 1609820000 / 1828450000 |
| 9540000000 | 2749340000* | 1609820000 / 1828450000 |
| 9540000000 | 2749380000* | 1856740000 / 1906000000 |
| 9540000000 | 2749380000* | 1856740000 / 1906000000 |
| 8630740000 | 2749380000* | 1856740000 / 1906000000 |
| 8630740000 | 2749380000* | 1856740000 / 1906000000 |
| 8630740000 | 2749380000* | 1856740000 / 1906000000 |
| 8630740000 | 2749380000* | 1856740000 / 1906000000 |
| 8630740000 | 2749380000* | 1856740000 / 1906000000 |

Uninsulated  * indicates new order number

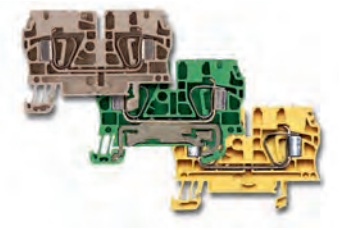


**ZPE 2.5**
**Single-level ground**

## Z Series Tension Clamp

### Color Feed Through Terminal Blocks

- Multiple colors provide clear circuit identification
- Terminals can be mounted to TS 35 DIN Rail in either direction



| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/ Partition | Jumpers: 2-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|---|---|---|---|---|
| **1608510000** | ZDU 2.5 | Beige | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1608520000** | ZDU 2.5 BL | Blue | 5mm | 600/25/30-12 | 600/27/26-12 | 1608750000/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1636780000** | ZDU 2.5 OR | Orange | 5mm | 600/25/30-12 | 600/27/26-12 | 1608760000/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683260000** | ZDU 2.5 RT | Red | 5mm | 600/25/30-12 | 600/27/26-12 | 1683660000/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683270000** | ZDU 2.5 GE | Yellow | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000(Beige)/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683280000** | ZDU 2.5 GN | Green | 5mm | 600/25/30-12 | 600/27/26-12 | 1683680000/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683290000** | ZDU 2.5 VI | Violet | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000(Beige)/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683300000** | ZDU 2.5 BR | Brown | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000(Beige)/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683320000** | ZDU 2.5 WS | White | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000(Beige)/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |
| **1683330000** | ZDU 2.5 BK | Black | 5mm | 600/25/30-12 | 600/27/26-12 | 1608740000(Beige)/- | 1608860000 | 1608940000 | 1609801044 / 1635000000 |

Single-level  Pluggable

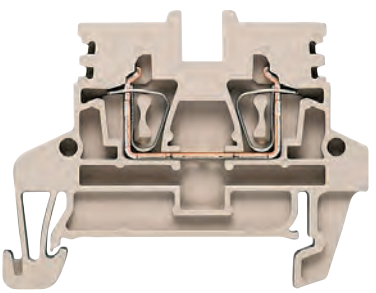
| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition | Jumpers: 2-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|---|---|---|---|---|
| **1632050000** | ZDU 4 | Beige | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1632060000** | ZDU 4 BL | Blue | 6mm | 600/33/26-10 | 600/35/26-10 | 1632100000/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1636830000** | ZDU 4 OR | Orange | 6mm | 600/33/26-10 | 600/35/26-10 | 1632110000/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1683580000** | ZDU 4 RT | Red | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000(Beige)/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1683590000** | ZDU 4 GE | Yellow | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000(Beige)/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1683620000** | ZDU 4 BR | Brown | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000(Beige)/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1683640000** | ZDU 4 WS | White | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000(Beige)/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |
| **1683650000** | ZDU 4 BK | Black | 6mm | 600/33/26-10 | 600/35/26-10 | 1632090000(Beige)/- | 1608950000 | 1609030000 | 1609820000 / 1828450000 |

Single-level  Pluggable

### Feed Through Terminal Blocks – Z Compact

- Only 1.4" in (35.6 mm) length – takes up less space on TS 35 DIN-rail (ZDU 2.5N)
- 60 Termination points per foot of rail
- 1 jumpering channel per terminal

| Order Number | Type | Description | V | A | AWG |
|---|---|---|---|---|---|
| **1933700000** | ZDU 2.5N | Single-Level, 5mm width | 300 | 20 | 30...12 |
| **1933720000** | ZDU 2.5N/3AN | Branch - 3 clamps, 5mm width | 300 | 20 | 30...12 |
| **1933740000** | ZDU 2.5N/4AN | Branch - 4 clamps, 5mm width | 300 | 20 | 30...12 |
| **1775510000** | ZPE 1.5 | Single-Level, Ground, 3.5mm width | - | - | 24...14 |
| **1933760000** | ZPE 2.5N | Single-Level, Ground, 5mm width | - | - | 30...12 |
| **1933770000** | ZPE 2.5N/3AN | Branch - Ground, 3 clamps, 5mm width | - | - | 30...12 |
| **1933780000** | ZPE 2.5N/4AN | Branch - Ground, 4 clamps, 5mm width | - | - | 30...12 |

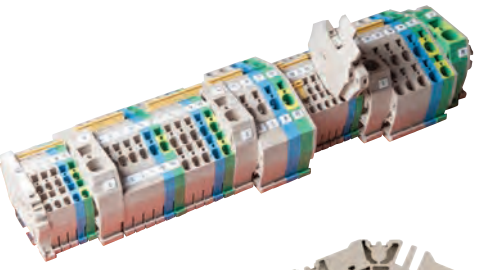


**ZDU 2.5N**

## Feed Through Terminal Blocks – Z-Roof

- Reduce space (width) requirements by 30%
- Accepts pluggable jumpers

| Order Number | Type | Description | V | A | AWG | End Plate |
|---|---|---|---|---|---|---|
| **1772060000** | ZDU 2.5-2 | Single-Level, 5mm width | 600 | 25 | 26...12 | 1706110000 |
| **1770370000** | ZDU 4-2 | Single-Level, 6mm width | 600 | 33 | 26...10 | 1770400000 |
| **1706090000** | ZPE 2.5-2 | Single-Level, Ground, 5mm width | - | - | 26...12 | 1706110000 |
| **1770380000** | ZPE 4-2 | Single-Level, Ground, 6mm width | - | - | 26...10 | 1770400000 |



**ZDU 2.5-2**

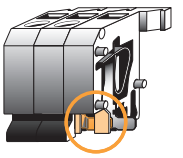
## Sensor Terminal Blocks

- Terminal block with pluggable mini-terminal
- Used to distribute power or provide a ground connection
- Quickly connect 3- or 4-wire sensors and actuator devices
- Base provides a feed-through connection for control signals
- Pluggable terminals have built-in bussing system for reduced installation time
- Rated at 300 V, 10 A, 26...14 AWG

| Order Number | Type | Description | End Plate |
|---|---|---|---|
| **1651980000** | ZIA 1.5/3L-1S | 3-wire sensor base | 1649540000 |
| **1652010000** | ZIA 1.5/4L-1S | 4-wire sensor base | 1649550000 |
| **1652000000** | ZIA 1.5/3L-PE | 3-wire sensor w/ ground base | 1649540000 |
| **1652030000** | ZIA 1.5/4L-PE | 4-wire sensor w/ ground | 1649550000 |
| **1650370000** | ZVL 1.5 BR | Pluggable mini-terminal, Brown | — |
| **1650360000** | ZVL 1.5 BL | Pluggable mini-terminal, Blue | — |

**ZVL 1.5**

**ZIA 1.5/4L**



**Internal Bussing Link**

## Direct Mount Terminal Blocks

- Tension clamp feed-through terminals (modular)
- Compact size designed for limited-space control panel applications
- Durable material for harsh environment
- Available as individual blocks or pre-assembled units of 2-12 poles

| Order Number | Type | Description | V | A | AWG |
|---|---|---|---|---|---|
| **1704350000** | ZDUB 2.5-2/2AN/DM | Single-Level, 5mm width | 600 | 20 | 26...12 |
| **1704500000** | ZDUB 2.5-2/2AN/DB | Single-Level, 5mm width, w/mounting Tab | 600 | 20 | 26...12 |
| **1704740000** | ZBB/ZDUB | End Mounting bracket (open side) | - | - | - |

Order 1 terminal with tab and 1 end mounting bracket per assembly

**ZDUB 2.5 Assembly**

**ZDUB 2.5-2/2AN/DM**

## Micro Series – TS 15 DIN-Rail Mountable

- 60 points per foot of rail
- Pluggable ZQV jumpers

| Order Number | Type | Description | V | A | AWG | End Plate |
|---|---|---|---|---|---|---|
| **1720920000** | ZDUA 2.5-2 | Single-Level, 5mm width | 300 | 20 | 26...12 | 1720960000 |
| **1712810000** | ZPEB 2.5-2 | Single-Level, Ground, 5mm width | - | - | 26...12 | 1704750000 |
| **1808200000** | ZDUA 2.5-2N | Single-Level, 5mm width | 600 | 20 | 26...12 | 1808170000 |

**ZDUA 2.5-2/15 Assembly**

**ZDUA 2.5-2**

# A-Series PUSH IN Clamp

- Functions as Tension or PUSH IN clamping system
- One of the fastest termination technologies available (reduces install time by 50%+)
- Offers gas-tight connection to prevent unwanted voltage drops
- Meets all industry approvals including UL508A SCCR requirements (100kA interrupt rating)
- PUSH IN clamp design guarantees a positive connection that is 100% vibration proof

## Single-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1552790000 | A2C 1.5 | Terminal | 3.5mm | 300V/13A/26-14AWG | 300V/13A/26-14AWG | 1552600000/- |
| 1521850000 | A2C 2.5 | Terminal | 5mm | 600V/20A/28-12AWG | 600V/20A/28-12AWG | 1514400000/- |
| 2051180000 | A2C 4 | Terminal | 6mm | 600V/30A/28-10AWG | 600V/30A/28-10AWG | 2051680000/- |
| 1992110000 | A2C 6 | Terminal | 8mm | 600V/38A/22-8AWG | 600V/38A/22-8AWG | 1991970000/- |
| 1991780000 | ALO 6 | Branch Step-Down Terminal | 9mm | 600V/38A/22-8AWG | 600V/38A/22-8AWG | - |
| 2490360000 | A2C 10 | Terminal | 10mm | 600V/55A/20-6AWG | 600V/55A/20-6AWG | 2490530000/- |
| 2494000000 | A2C 16 | Terminal | 12mm | 600V/62A/18-8AWG | 600V/62A/18-8AWG | 2490530000/- |
| 2502280000 | ALO 16 | Branch Step-Down Terminal | 12mm | 600V/62A/18-8AWG | 600V/62A/18-8AWG | - |
| 2551510000 | A2C 35 | Terminal | 16mm | 600V/113A/12-2AWG | 600V/113A/12-2AWG | - |
| 2663250000 | A2C 50/70 | Terminal | 20mm | 1000V/175A/8-2/0AWG | 1000V/175A/8-2/0AWG | - |
| 2694060000 | A2C 95/120 | Terminal | 25mm | 600V/255A/4-3/0AWG | 600V/255A/4-3/0AWG | - |

## Branch/Dual-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1552740000 | A3C 1.5 | Branch Terminal, 3 clamps | 3.5mm | 300V/13A/26-14AWG | 300V/13A/26-14AWG | 1552620000/- |
| 1521740000 | A3C 2.5 | Branch Terminal, 3 clamps | 5mm | 600V/20A/28-12AWG | 600V/20A/28-12AWG | 1521510000/- |
| 2051240000 | A3C 4 | Branch Terminal, 3 clamps | 6mm | 600V/30A/28-10AWG | 600V/30A/28-10AWG | 2051720000/- |
| 1991820000 | A3C 6 | Branch Terminal, 3 clamps | 8mm | 600V/44A/16-8AWG | 600V/44A/16-8AWG | 1991940000/- |
| 2490520000 | A3C 10 | Branch Terminal, 3 clamps | 10mm | 600V/30A/26-10AWG | 600V/30A/26-10AWG | 1919720000/- |
| 2494090000 | A3C 16 | Branch Terminal, 3 clamps | 12mm | 600V/30A/26-10AWG | 600V/30A/26-10AWG | 1919720000/- |
| 1552690000 | A4C 1.5 | Branch Terminal, 4 clamps | 3.5mm | 300V/13A/26-14AWG | 300V/13A/26-14AWG | 1552640000/- |
| 1521690000 | A4C 2.5 | Branch Terminal, 4 clamps | 5mm | 600V/20A/28-12AWG | 600V/20A/28-12AWG | 1521530000/- |
| 2051500000 | A4C 4 | Branch Terminal, 4 clamps | 6mm | 600V/30A/28-10AWG | 600V/30A/28-10AWG | 2051900000/- |
| 2469370000 | A2T 1.5 | Dual-Level Terminal, 4 clamps | 3.5mm | 300V/13A/26-14AWG | 300V/13A/26-14AWG | 2469420000/- |
| 1547610000 | A2T 2.5 | Dual-Level Terminal, 4 clamps | 5mm | 600V/20A/28-12AWG | 600V/20A/28-12AWG | 1547690000/- |
| 1547650000 | A2T 2.5VL | Bussed Dual-Level Terminal, 4 clamps | 5mm | 600V/20A/28-12AWG | 600V/20A/28-12AWG | 1547690000/- |
| 2428510000 | A3T 2.5 | Triple-Level Terminal, 6 clamps | 5mm | 300V/20A/28-12AWG | 300V/20A/28-12AWG | 2428560000/- |

* V denotes: Upper and lower tier linked

## Disconnect Single/Branch/Dual-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1989800000 | ADT 2.5 2C | Single-Level Terminal | 5mm | 300V/20A/28-12AWG | 300V/20A/28-12AWG | 1521530000/- |
| 1989830000 | ADT 2.5 3C | Branch Terminal | 5mm | 300V/20A/28-12AWG | 300V/20A/28-12AWG | 1989970000/- |
| 1989860000 | ADT 2.5 4C | Branch Terminal | 5mm | 300V/20A/28-12AWG | 300V/20A/28-12AWG | 1989980000/- |
| 2429850000 | ADT 4 2C | Branch Terminal | 6mm | 600V/20A/26-10AWG | 600V/20A/26-10AWG | 2051900000/- |

## Fuse Single-Level Pluggable Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 2429860000 | AFS 4 2C | Single-Level Terminal | 6mm | 150V/10A/26-10AWG | 150V/10A/26-10AWG | 2486640000/- |
| 2548140000 | AFS 4 2C, 10-36V LD | Branch Terminal | 6mm | 150V/10A/26-10AWG | 150V/10A/26-10AWG | 2486640000/- |
| 2434350000 | AFS 4 2C, 30-70V LD | Branch Terminal | 6mm | 150V/10A/26-10AWG | 150V/10A/26-10AWG | 2486640000/- |
| 2434390000 | AFS 4 2C, 60-150V LD | Dual-Level Terminal | 6mm | 150V/10A/26-10AWG | 150V/10A/26-10AWG | 2486640000/- |

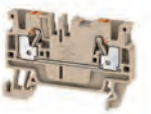
## Ground Single/Branch/Dual-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1552680000 | A2C 1.5 PE | Single-Level Terminal | 3.5mm | - / - / 26 - 14AWG | - / - / 26 - 14AWG | 1552600000/- |
| 1552670000 | A3C 1.5 PE | Branch Terminal, 3 clamps | 3.5mm | - / - / 26 - 14AWG | - / - / 26 - 14AWG | 1552620000/- |
| 1521680000 | A2C 2.5 PE | Single-Level Terminal | 5mm | - / - / 26 - 12AWG | - / - / 26 - 12AWG | 1514400000/- |
| 1521670000 | A3C 2.5 PE | Branch Terminal, 3 clamps | 5mm | - / - / 26 - 12AWG | - / - / 26 - 12AWG | 1521510000/- |
| 1521540000 | A4C 2.5 PE | Branch Terminal, 4 clamps | 5mm | - / - / 26 - 12AWG | - / - / 26 - 12AWG | 1521530000/- |
| 2051360000 | A2C 4 PE | Single-Level Terminal | 6mm | - / - / 26 - 10AWG | - / - / 26 - 10AWG | 2051360000/- |
| 2051410000 | A3C 4 PE | Branch Terminal, 3 clamps | 6mm | - / - / 26 - 10AWG | - / - / 26 - 10AWG | 2051410000/- |
| 2051560000 | A4C 4 PE | Branch Terminal, 4 clamps | 6mm | - / - / 26 - 10AWG | - / - / 26 - 10AWG | 2051560000/- |
| 1991810000 | A2C 6 PE | Single-Level Terminal | 8mm | - / - / 22 - 8AWG | - / - / 22 - 8AWG | 1991970000/- |
| 1991850000 | A3C 6 PE | Branch Terminal, 3 clamps | 8mm | - / - / 22 - 8AWG | - / - / 22 - 8AWG | 1991940000/- |
| 2490440000 | A2C 10 PE | Single-Level Terminal | 10mm | - / - / 20 - 6AWG | - / - / 20 - 6AWG | 2490380000/- |
| 2490590000 | A3C 10 PE | Branch Terminal, 3 clamps | 10mm | - / - / 20 - 6AWG | - / - / 20 - 6AWG | 2490530000/- |
| 2494010000 | A2C 16 PE | Single-Level Terminal | 12mm | - / - / 18 - 6AWG | - / - / 18 - 6AWG | 2490380000/- |
| 2494020000 | A3C 16 PE | Branch Terminal, 3 clamps | 12mm | - / - / 18 - 6AWG | - / - / 18 - 6AWG | 2490530000/- |
| 2469410000 | A2T 1.5 PE | Dual-Level Terminal | 3.5mm | - / - / 26-14AWG | - / - / 26-14AWG | 2469420000/- |
| 1547680000 | A2T 2.5 PE | Dual-Level Terminal | 5mm | - / - / 28 - 12AWG | - / - / 28 - 12AWG | 1547690000/- |
| 2428550000 | A3T 2.5 PE | Triple-Level Terminal | 5mm | - / - / 28 - 12AWG | - / - / 28 - 12AWG | 2428560000/- |

**Weidmüller Configurator (WMC)**
Design software to select/build assemblies to your specifications.
www.weidmuller.com/wmc

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985410000 | 1985480000 | 1985490000 | 1985580000 | 1755270000/ 2007140000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044/ 2007150000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1609820000/ 2007160000 |
| 1985740000 | 1985760000 | 1985780000 | - | 1856740000/ 2619890000 |
| 1985410000 | - | - | 1527690000 | 1609840000/ 1208970000 |
| 2497250000 | - | - | - | 1208970000 |
| 2497290000 | - | - | - | 1208970000 |
| 1985410000 | - | - | 1985580000 | 1208970000 |
| 2634950000 | - | - | - | 1046350000/ 2619910000 |
| 2663400000 | - | - | - | 1046350000/ 2619910000 |
| 2694250000 | - | - | - | 1046350000/ 2619910000 |

Pluggable



**A2C 2.5**

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985410000 | 1985480000 | 1985490000 | 1985580000 | 1755270000 / 2007140000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1609820000 / 2007160000 |
| 1985740000 | 1985760000 | 1985780000 | - | 1856740000 / 2619890000 |
| 2497250000 | - | - | - | 1208970000 |
| 2497290000 | - | - | - | 1208970000 |
| 1985410000 | 1985480000 | 1985490000 | 1985580000 | 1755270000 / 2007140000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1609820000 / 2007160000 |
| 1985410000 | 1985480000 | 1985490000 | 1985580000 | 1755270000 / 2007140000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |

Pluggable

**A4C 4**

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1854490000 / 2007150000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1854490000 / 2007150000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1854490000 / 2007150000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 2003780000 / 2007160000 |

Pluggable

**ADT 4 2C**

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1011320000 / 2007160000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1011320000 / 2007160000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1011320000 / 2007160000 |
| 1527930000 | 1527940000 | 1527970000 | 1528090000 | 1011320000 / 2007160000 |

Pluggable

**AFS 4 2C**

| Marking Tags - Blank (MultiCard/MultiMark) |
|---|
| 2003750000 / 2007140000 |
| 2003750000 / 2007140000* |
| 1854490000/ 2007110000 |
| 1854490000/ 2007110000* |
| 1854490000/ 2007110000* |
| 1011320000 / 2003780000 |
| 1011320000 / 2003780000* |
| 1011320000 / 2003780000* |
| 1046350000 / 2448930000 |
| 1046350000 / 2448930000* |
| 1208970000 |
| 1208970000 |
| 1208970000 |
| 1208970000 |
| 2003750000 / 2007140000 |
| 1854490000/ 2007110000 |
| 1854490000/ 2007110000 |

**A2C 4 PE**

* indicates new order number

# S-Series SNAP IN Clamp

- Simple and tool-free wiring of flexible and fine-stranded conductors even without a ferrule
- Safe connection confirmed by a clear “click” sound and an elevated pusher
- Ready-to-robot: With the innovative SNAP IN connection, fully automated wiring processes become reality
- Complete terminal assemblies can be planned digitally and ordered via the Weidmüller Configurator - including accessories
- Compatible with our PUSH IN terminal portfolio – same accessories can be used on both series

## Single-Level Feed Through Terminal Blocks

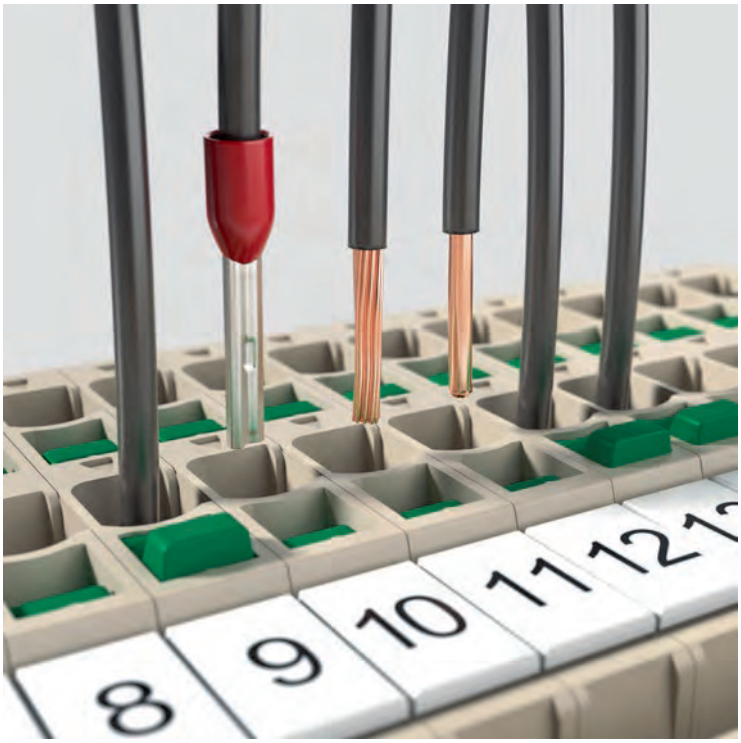
| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/ Partition |
|---|---|---|---|---|---|---|
| **2674530000** | S2C 2.5 | Terminal | 5mm | 600V/15A/20 -14AWG | 600V/15A/20 -14AWG | 2751080000 |

## Branch Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| **2674540000** | S3C 2.5 | Branch Terminal, 3 clamps | 5mm | 600V/15A/20 -14AWG | 600V/15A/20 -14AWG | 2751090000 |
| **2674550000** | S4C 2.5 | Branch Terminal, 4 clamps | 5mm | 600V/15A/20 -14AWG | 600V/15A/20 -14AWG | 2751100000 |

## Ground Single/Branch Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| **2674560000** | S2C 2.5 PE | | 5mm | - / - /20 -14AWG | - / - /20 -14AWG | 2751080000 |
| **2674570000** | S3C 2.5 PE | | 5mm | - / - /20 -14AWG | - / - /20 -14AWG | 2751090000 |
| **2674580000** | S4C 2.5 PE | | 5mm | - / - /20 -14AWG | - / - /20 -14AWG | 2751100000 |



### INSERT

Simply insert the stripped conductor into the open contact point, with no need for any preparation.

### CONNECT

The connection spring snaps closed with a noticeable “click”, and the conductor is connected.

### RELEASE

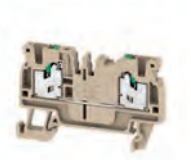
The conductor can be quickly and easily disconnected at any time by pressing the plunger.

## German Innovation Award 2022

Our patented new connection technology SNAP IN makes your wiring processes much faster and easier. For our innovative new connection technology we just received the German Innovation Award 2022. Have a look at our portfolio with SNAP IN technology below.

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |

Pluggable



S2C 2.5

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |
| 1527540000 | 1527570000 | 1527590000 | 1527690000 | 1609801044 / 2007150000 |

Pluggable

S4C 2.5 PE

| Marking Tags - Blank (MultiCard/MultiMark) |
|---|
| 1854490000/ 2007110000 |
| 1854490000/ 2007110000 |
| 1854490000/ 2007110000 |

The world is becoming more and more dynamic - and so are our products. With SNAP IN, we have developed the fastest connection technology on the market. Our products - be it terminal blocks, PCB connectors or heavy-duty connectors - arrive wire-ready and can be wired immediately without any tools, or with automation. From pioneers for pioneers!

# A-Series Application Specific Solutions

## Power Feed-in & Power Distribution Terminal Blocks

Safe power supply to equipment such as motors is decisive for the availability of plants and machines. The use of increasingly large wire cross-sections and restricted space in the panel is increasing the demands on modular terminal blocks and distribution blocks - and posing new challenges for panel planners

### A2C High Current Terminal Blocks

In today's control cabinet construction, space and wiring time must continually be reduced to remain competitive. With our Klippon® Connect High Current Terminal Blocks, we offer a comprehensive product range for power feed-in and distribution that ensures excellent flexibility, even in the planning stages

**Features**

- Innovative PUSH IN-Power connection
- Simple and fast wiring of larger conductors
- Pre-assembled blocks
- Efficient distribution via cross-connections
- Additional power taps available
- Standardized accessories

#### DIN-rail mount

#### Single-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA |
|---|---|---|---|---|---|
| **2551510000** | A2C 35 | Terminal, 1-pole | 16 mm | 1000/113/AWG 12...2 | 1000/101/AWG 12...2 |
| **2552100000** | A2C 35 3FT | Terminal, 3-pole | 48 mm | 1000/113/AWG 12...2 | 1000/101/AWG 12...2 |
| **2663250000** | A2C 50/70 | Terminal, 1-pole | 20 mm | 1000/175/AWG 8...2/0 | 1000/150/AWG 12...1/0 |
| **2663320000** | A2C 50/70 3FT | Terminal, 3-pole | 60 mm | 1000/175/AWG 8...2/0 | 1000/150/AWG 12...1/0 |
| **2694060000** | A2C 95/120 | Terminal, 1-pole | 25 mm | 600(C)/255/AWG 4...250 | 1000(C)/255/AWG 4...250 |
| **2694140000** | A2C 95/120 3FT | Terminal, 3-pole | 75 mm | 600 (C)/255/AWG 4...250 | 1000(C)/255/AWG 4...250 |

#### Ground Single-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA |
|---|---|---|---|---|---|
| * **2551520000** | A2C 35 PE | Terminal, 1-pole | 16 mm | - / - /AWG 12...2 | - / - /AWG 12...2 |
| * **2552120000** | A2C 35 3FT-PE | Terminal, 3-pole plus Ground | 64 mm | - / - /AWG 12...2 | - / - /AWG 12...2 |
| * **2663280000** | A2C 50/70 PE | Terminal, 1-pole | 20 mm | - / - /AWG 8...2/0 | - / - /AWG 8...1/0 |
| * **2694090000** | A2C 95/120 PE | Terminal, 1-pole | 25 mm | - / - /AWG 4...250 | - / - /AWG 4...250 |

*Functional Earth (FE) versions available

#### Direct mount

#### Single-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA |
|---|---|---|---|---|---|
| * **2551550000** | A2C 35 DM | Terminal, 1-pole | 16 mm | 1000/113/AWG 12...2 | 1000/101/AWG 12...2 |
| * **2552170000** | A2C 35 3FT DM | Terminal, 3-pole | 64 mm | 1000/113/AWG 12...2 | 1000/101/AWG 12...2 |
| * **2663330000** | A2C 50/70-DM | Terminal, 1-pole | 20 mm | 1000/175/AWG 8...2/0 | 1000/150/AWG 8...1/0 |
| * **2663390000** | A2C 50/70 3FT-DM | Terminal, 3-pole | 60 mm | 1000/175/AWG 8...2/0 | 1000/150/AWG 8...1/0 |
| * **2694150000** | A2C 95/120-DM | Terminal, 1-pole | 25 mm | 600(C)/255/AWG 4...250 | 1000(C)/255/AWG 4...250 |
| * **2694230000** | A2C 95/120 3FT-DM | Terminal, 3-pole | 75 mm | 600(C)/255/AWG 4...250 | 1000(C)/255 /AWG 4...250 |

*Functional Earth (FE) versions available

### AWPD Terminal Blocks

Our AWPD terminal blocks for power distribution combine the advantages of clamping yoke and PUSH IN technology in one product. Power is supplied from the side of the terminal block using a reliable and proven screw connection with clamping yoke technology. The potential is distributed via space-saving PUSH IN connections on the top of the terminal block. This ensures fast, simple and tool-free wiring even in confined spaces.

**Features**

- Combination of clamping yoke and PUSH IN technology
- Compact and robust design
- Compatible with standard Klippon® Connect A-series terminal blocks
- Standardized testing point

#### Single-Level Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL (Line) | V/A/AWG - UL (Load 1) |
|---|---|---|---|---|---|
| **2728620000** | AWPD 35 4X6/6X2.5 | Terminal, 1-pole, 11 clamps | 16.2 mm | 600/105/14...2AWG | 600/40/20...8AWG |
| **2728630000** | AWPD 35 4X10 | Terminal, 1-pole, 5 clamps | 16.2 mm | 600/105/14...2AWG | 600/50/14...2AWG |

### Pre-assembled blocks

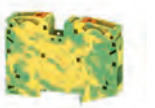
Pre-assembled feed-in blocks for each network system reduce the number of variants and storage costs. This supports installation on the standard DIN rail or direct fixation on the mounting plate using an integrated foot bracket.

| Additional power tap | Jumpers: 2-pole | Test Adapter | Warning Labels | Marking Tags |
|---|---|---|---|---|
| 2583090000 ** | 2634950000 | 1991890000 | 2635600000 | 2619910000 |
| 2583090000 ** | 2634950000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2663400000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2663400000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2694250000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2694250000 | 1991890000 | 2635600000 | 2619910000 |

**Step-down jumpers available

A2C 35

| Additional power tap | Jumpers: 2-pole | Test Adapter | Warning Labels | Marking Tags |
|---|---|---|---|---|
| 2583180000 | - | 1991890000 | 2635600000 | 2619910000 |
| 2583090000 | - | 1991890000 | 2635600000 | 2619910000 |
| 2663440000 | - | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | - | 1991890000 | 2635600000 | 2619910000 |



A2C 35 PE

| Additional power tap | Jumpers: 2-pole | Test Adapter | Warning Labels | Marking Tags |
|---|---|---|---|---|
| 2583090000 ** | 2634950000 | 1991890000 | 2635600000 | 2619910000 |
| 2583090000 ** | 2634950000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2663400000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2663400000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2694250000 | 1991890000 | 2635600000 | 2619910000 |
| 2663420000 | 2694250000 | 1991890000 | 2635600000 | 2619910000 |

**Step-down jumpers available

A2C 35 DM

AWPD modular terminal blocks are compatible with the feed-through modular terminal blocks of the Klippon® Connect A-Series in the cross sections 1.5 - 6 mm². This ensures maximum flexibility within an application.

| V/A/AWG - UL (Load 2) | Jumpers: 2-pole to 2.5mm² | Jumpers: 2-pole to 4mm² | Test Adapter | Marking Tags - Blank (MultiMark/MultiCard) |
|---|---|---|---|---|
| 600/20/22...12AWG | 1527540000[1] | 1527930000[1] | 1991890000 | 2619910000/1854490000 |
| - | 1527540000[1] | 1527930000[1] | 1991890000 | 2619910000/1854490000 |

[1] other sizes and pole-counts available

Pluggable

# A-Series Application Specific Solutions

## Control Voltage Distribution Terminal Blocks

Our tailored AAP potential distribution terminal blocks and the maxGUARD modular system with built-in electronic load monitoring offer ideal solutions for surge current protection and clear, structured power distribution within control voltage circuits. The considerable space saving and reduced wiring means you can guarantee supply to your panel equipment simply and effectively.

### Features

- Up to 50 percent more compact control voltage distribution thanks to the optional six conductor connections per terminal block
- Maximum time saving on wiring thanks to PUSH IN technology
- Guarantees vibration-resistant and gas-tight connections
- Simple to modify and expand
- Easy to rewire without special tools thanks to PUSH IN technology
- Universal use – for direct and alternating current from 0 to 250 V

### AAP 11

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1989780000 | AAP11 6 LO RD | Potential Distribution Terminal | 8.1 mm | 300/36/AWG 22...8 | 300/36/AWG 22...8 | 1988320000 /- |
| 1988130000 | AAP11 6 LO BL | Potential Distribution Terminal | 8.1 mm | 300/36/AWG 22...8 | 300/36/AWG 22...8 | 1988320000 /- |
| 2503650000 | AAP11 6 LO OR | Potential Distribution Terminal | 8.1 mm | 300/36/AWG 22...8 | 300/36/AWG 22...8 | 1988320000 /- |
| 1988160000 | AAP11 1.5 LI RD | Potential Distribution Terminal | 3.5 mm | 300/13/AWG 26...14 | 300/13/AWG 26...14 | 1988320000 /- |
| 1988170000 | AAP11 1.5 LI BL | Potential Distribution Terminal | 3.5 mm | 300/13/AWG 26...14 | 300/13/AWG 26...14 | 1988320000 /- |
| 2503910000 | AAP11 1.5 LI OR | Potential Distribution Terminal | 3.5 mm | 300/13/AWG 26...14 | 300/13/AWG 26...14 | 1988320000 /- |

### AAP 12

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1988190000 | AAP12 10 LO RD | Potential Distribution Terminal | 10 mm | 600/51/AWG 20...6 | 600/51/AWG 20...6 | 1988300000 /- |
| 1988180000 | AAP12 10 LO BL | Potential Distribution Terminal | 10 mm | 600/51/AWG 20...6 | 600/51/AWG 20...6 | 1988300000 /- |
| 2503900000 | AAP12 10 LO OR | Potential Distribution Terminal | 10 mm | 600/51/AWG 20...6 | 600/51/AWG 20...6 | 1988300000 /- |
| 1988290000 | AAP12 2.5 LI RD | Potential Distribution Terminal | 5.1 mm | 600/20/AWG 28...12 | 600/20/AWG 28...12 | 1988300000 /- |
| 1988100000 | AAP12 2.5 LI BL | Potential Distribution Terminal | 5.1 mm | 600/20/AWG 28...12 | 600/20/AWG 28...12 | 1988300000 /- |
| 2503880000 | AAP12 2.5 LI OR | Potential Distribution Terminal | 5.1 mm | 600/20/AWG 28...12 | 600/20/AWG 28...12 | 1988300000 /- |

### AAP 13

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1988260000 | AAP13 6 LO-LO | Potential Distribution Terminal | 8.1 mm | 150/36/AWG 22...8 | 150/36/AWG 22...8 | 1990140000 /- |
| 1988280000 | AAP13 1.5 LI-LI | Potential Distribution Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1990140000 /- |

### AAP 14

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1988250000 | AAP14 10 LO-LO | Potential Distribution Terminal | 10 mm | 150/51/AWG 20...6 | 150/51/AWG 20...6 | 1988340000 /- |
| 1988230000 | AAP14 2.5 LI-LI | Potential Distribution Terminal | 5.1 mm | 150/20/AWG 28...12 | 150/20/AWG 28...12 | 1988340000 /- |

### AAP 21

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 2428910000 | AAP21 10 LO RD | Potential Distribution Terminal | 12 mm | 600 (C) /51/AWG 20...6 | 600 (C) /51/AWG 20...6 | 2429020000 /- |
| 2428940000 | AAP21 10 LO BL | Potential Distribution Terminal | 12 mm | 600 (C) /51/AWG 20...6 | 600 (C) /51/AWG 20...6 | 2429020000 /- |
| 2428930000 | AAP21 4 LI RD | Potential Distribution Terminal | 6.1 mm | 300 (C) /20/AWG 26...10 | 300 (C) /20/AWG 26...10 | 2429020000 /- |
| 2428960000 | AAP21 4 LI BL | Potential Distribution Terminal | 6.1 mm | 300 (C) /20/AWG 26...10 | 300 (C) /20/AWG 26...10 | 2429020000 /- |
| 2428950000 | AAP21 4 FS | Potential Distribution Terminal | 6.1 mm | 150 (C) /10/AWG 26...10 | 150 (C) /10/AWG 26...10 | 2429020000 /- |
| 2458990000 | AAP21 4 FS 10-36V | Potential Distribution Terminal | 6.1 mm | 150 (C) /10/AWG 26...10 | 150 (C) /10/AWG 26...10 | 2429020000 /- |
| 2460200000 | AAP21 4 FS 30-70V | Potential Distribution Terminal | 6.1 mm | 150 (C) /10/AWG 26...10 | 150 (C) /10/AWG 26...10 | 2429020000 /- |
| 2460190000 | AAP21 4 FS 60-150V | Potential Distribution Terminal | 6.1 mm | 150 (C) /10/AWG 26...10 | 150 (C) /10/AWG 26...10 | 2429020000 /- |
| 2460180000 | AAP21 4 FS 100-250V | Potential Distribution Terminal | 6.1 mm | 150 (C) /10/AWG 26...10 | 150 (C) /10/AWG 26...10 | 2429020000 /- |
| 2428980000 | AAP21 4 DT | Potential Distribution Terminal | 6.1 mm | 150 (C) /20/AWG 26...10 | 150 (C) /20/AWG 26...10 | 2429020000 /- |

### AAP 22

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 2428990000 | AAP22 10 LO-LO | Potential Distribution Terminal | 12 mm | 150/51/AWG 20...6 | 150/51/AWG 20...6 | 2429040000 /- |
| 2429010000 | AAP22 4 LI-FS | Potential Distribution Terminal | 6.1 mm | 300 (D) /10/AWG 26...10 | 300 (D) /10/AWG 26...10 | 2429040000 /- |
| 2459010000 | AAP22 4 LI-FS 10-36V | Potential Distribution Terminal | 6.1 mm | 300 (D) /10/AWG 26...10 | 300 (D) /10/AWG 26...10 | 2429040000 /- |
| 2460140000 | AAP22 4 LI-FS 30-70V | Potential Distribution Terminal | 6.1 mm | 300 (D) /10/AWG 26...10 | 300 (D) /10/AWG 26...10 | 2429040000 /- |
| 2460130000 | AAP22 4 LI-FS 60-150V | Potential Distribution Terminal | 6.1 mm | 300 (D) /10/AWG 26...10 | 300 (D) /10/AWG 26...10 | 2429040000 /- |
| 2460120000 | AAP22 4 LI-FS 100-250V | Potential Distribution Terminal | 6.1 mm | 300 (D) /10/AWG 26...10 | 300 (D) /10/AWG 26...10 | 2429040000 /- |

**Weidmüller Configurator (WMC)**
Design software to select/build assemblies to your specifications.
www.weidmuller.com/wmc

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985650000* | 1985670000* | 1985690000* | 1985800000 | 2448860000/ 2448930000 |
| 1985530000* | 1985550000* | 1985570000* | 1985680000* | 2448860000/ 2448930000 |
| 1985410000* | 1985480000* | 1985490000* | 1985580000* | 2448860000/ 2448930000 |
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |
| 1985530000* | 1985550000* | 1985570000* | 1985680000* | 2007100000/ 2007140000 |
| 1985410000* | 1985480000* | 1985490000* | 1985580000* | 2007100000/ 2007140000 |

AAP11 6 LO RD

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 2108470000 | 2108690000* | 2108700000* | 2108910000 | 1208970000 |
| 1527740000* | 1527770000* | 1527780000* | 1527880000* | 1208970000 |
| 1527540000* | 1527570000* | 1527590000* | 1527690000* | 1208970000 |
| 2108470000 | 2108690000* | 2108700000* | 2108910000 | 2007110000/ 2007150000 |
| 1527740000* | 1527770000* | 1527780000* | 1527880000* | 2007110000/ 2007150000 |
| 1527540000* | 1527570000* | 1527590000* | 1527690000* | 2007110000/ 2007150000 |

AAP12 10 LO RD

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2448860000/ 2448930000 |
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |

AAP13 6 LO-LO

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 2108470000 | 2108690000* | 2108700000* | 2108910000 | 1208970000 |
| 2108470000 | 2108690000* | 2108700000* | 2108910000 | 2007150000 |

AAP14 10 LO-LO

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 1208970000 |
| 1528040000* | 1528080000* | 1528120000* | 2460740000 | 1208970000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 1528040000* | 1528080000* | 1528120000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 1528040000 | 1528080000* | 1528120000* | 1528230000 | 2007120000/ 2007160000 |

AAP21 10 LO RD

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 1208970000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |
| 2460450000 | 2460810000* | 2460800000* | 2460740000 | 2007120000/ 2007160000 |

AAP22 10 LO-LO

# A-Series Application Specific Solutions

## Signal Wiring — Sensor-Actuator Terminal Blocks

With the current levels of automation, there are more and more sensors monitoring the production process. This increases the number of signals to be combined and structured. Given the restricted space in the panel, this can become a real challenge. Our application-specific initiator/actuator terminal blocks (AIO) are specially designed for the signal wiring requirements posed by automation now and into the future. You can benefit from tailored, really compact solutions for the structured wiring of initiator and actuator signals with the input and output modules of a programmable logic controller (PLC).

### Features

- Test options on every terminal
- Vibration-resistant and gas-tight connections
- Top-level safety for machines and systems
- Up to four different potentials on a terminal just 3.5 mm wide
- Structuring and combining of signals in confined spaces
- Simple to use thanks to PUSH IN technology
- Convenient +/- potential distribution through range of cross connection options
- Simple wiring thanks to color-coded pushers
- Maximum clarity thanks to wide variety of labeling options
- User and service-friendly thanks to clear design
- A wide assortment of variants in three designs

### AIO 21

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| **1992260000** | AIO21 1.5 SI | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993580000 /- |
| **2579610000** | AIO21 1.5 SI OR | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993580000 /- |
| **1992240000** | AIO21 1.5 SO | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993580000 /- |
| **2579570000** | AIO21 1.5 SO OR | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993580000 /- |
| **1992250000** | AIO21 1.5 SO-PE | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993580000 /- |
| **2579580000** | AIO21 1.5 SO-PE OR | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993580000 /- |

### AIO 22

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| **1992230000** | AIO22 1.5 SI-PE | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993590000 /- |
| **2579640000** | AIO22 1.5 SI-PE OR | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993590000 /- |

### AIO 23

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| **1992220000** | AIO23 1.5 2SI | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993600000 /- |
| **2579620000** | AIO23 1.5 2SI OR | Sensor-Actuator Terminal | 3.5 mm | 150/13/AWG 26...14 | 150/13/AWG 26...14 | 1993600000 /- |

**Weidmüller Configurator (WMC)**
Design software to select/build assemblies to your specifications.
www.weidmuller.com/wmc

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |
| 1985530000 | 1985550000* | 1985570000* | 1985680000 | 2007100000/ 2007140000 |
| 1985530000 | 1985550000* | 1985570000* | 1985680000 | 2007100000/ 2007140000 |
| 1985530000 | 1985550000* | 1985570000* | 1985680000 | 2007100000/ 2007140000 |
| 1985530000 | 1985550000* | 1985570000* | 1985680000 | 2007100000/ 2007140000 |

AI021 1.5 SI

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |

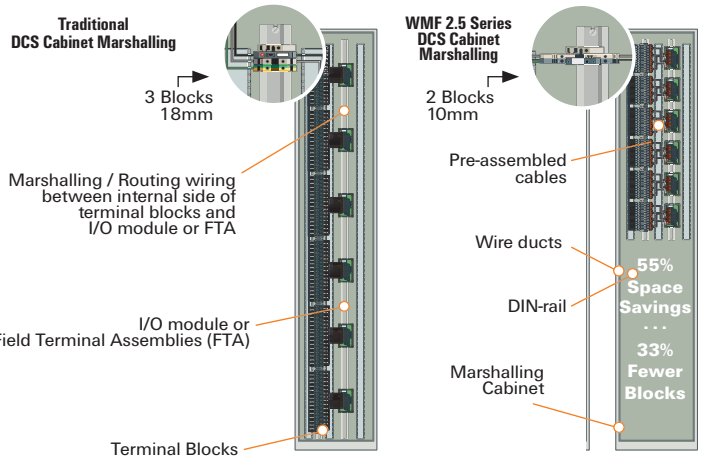
AI022 1.5 SI-PE

| Jumpers: 2-pole | Jumpers: 3-pole | Jumpers: 4-pole | Jumpers: 10-pole | Marking Tags - Blank (MultiCard/MultiMark) |
|---|---|---|---|---|
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |
| 1985650000 | 1985670000* | 1985690000* | 1985800000 | 2007100000/ 2007140000 |

AI023 1.5 2SI

# WMF Series
# For DCS Marshalling Solutions

- Specially designed for challenging DCS marshalling applications
- Innovative 3 channel jumpering across all terminal configurations
- Meets all industry approvals
- 5mm width provides maximum space savings
- Fuse blocks must be spaced with feed through blocks




## Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1143070000 | WMF 2.5 | Single-level | 5mm | 600/26/26-12 | 600/26/26-12 | 1142990000/ - |
| 1143050000 | WMF 2.5 BLZ | Single-level, pluggable BLZ ch. | 5mm | 300/20/26-12 | 300/26/26-12 | 1142990000/ - |
| 1143060000 | WMF 2.5 PE | Single-level, w/grnd | 5mm | 300/20/26-12 | 300/26/26-12 | 1142990000/ - |

## Disconnect Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1143020000 | WMF 2.5 DI | Single-level | 5mm | 600/19/26-12 | 300/10/26-12 | 1142990000/ - |
| 1143030000 | WMF 2.5 DI PE | Single-level, w/grnd | 5mm | 600/19/26-12 | 600/19/26-12 | 1142990000/ - |
| 1167340000 | WMF 2.5 DI PE, StB 2.3* | Single-level, w/grnd, test socket | 5mm | 600/19/26-12 | 600/19/26-12 | 1142990000/ - |
| 1143000000 | WMF 2.5 DI BLZ | Single-level, pluggable BLZ ch. | 5mm | 600/19/26-12 | 600/19/26-12 | 1142990000/ - |
| 1143010000 | WMF 2.5 DI BLZ PE | Single-level, pluggable BLZ ch., w/grnd | 5mm | 600/19/26-12 | 300/20/26-12 | 1142990000/ - |
| 1362930000 | WMF 2.5 DI BLZ PE w/o Lever | Single-level, pluggable BLZ ch., w/grnd | 5mm | 600/19/26-12 | 300/20/26-12 | 1142990000/ - |

***StB denotes: test socket screw-clamp**

## Fuse Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 1162920000 | WMF 2.5 FU SW | 5x20mm fuse | 5mm | 600/17/26-12 | 600/17/26-12 | 1142990000/ - |
| 1162930000 | WMF 2.5 FU - 24V SW | 5x20mm fuse, 10-36VAC/DC | 5mm | 300/10/26-12 | 36/10/26-12 | 1142990000/ - |
| 1162940000 | WMF 2.5 FU - 48V SW | 5x20mm fuse, 30-70VAC/DC | 5mm | 300/10/26-12 | 70/10/26-12 | 1142990000/ - |
| 1162950000 | WMF 2.5 FU - 110V SW | 5x20mm fuse, 60-150VAC/DC | 5mm | 300/10/26-12 | 150/10/26-12 | 1142990000/ - |
| 1162960000 | WMF 2.5 FU - 250V SW | 5x20mm fuse, 100-250VAC/DC | 5mm | 300/10/26-12 | 250/10/26-12 | 1142990000/ - |
| 1163040000 | WMF 2.5 FU PE SW | 5x20mm fuse, w/grnd | 5mm | 300/10/26-12 | 600/17/26-12 | 1142990000/ - |
| 1163050000 | WMF 2.5 FU PE 10-36V SW | 5x20mm fuse, w/grnd, LED indication | 5mm | 300/10/26-12 | 36/10/26-12 | 1142990000/ - |
| 1163060000 | WMF 2.5 FU PE 30-70V SW | 5x20mm fuse, w/grnd, LED indication | 5mm | 300/10/26-12 | 70/10/26-12 | 1142990000/ - |
| 1163070000 | WMF 2.5 FU PE 60-150V SW | 5x20mm fuse, w/grnd, LED indication | 5mm | 300/10/26-12 | 150/10/26-12 | 1142990000/ - |
| 1163080000 | WMF 2.5 FU PE 100-250V SW | 5x20mm fuse, w/grnd, LED indication | 5mm | 300/10/26-12 | 250/10/26-12 | 1142990000/ - |
| 1162980000 | WMF 2.5 FU BLZ SW | 5x20mm fuse, pluggable BLZ ch. | 5mm | 300/10/26-12** | 150/10/26-12** | 1142990000/ - |
| 1162990000 | WMF 2.5 FU BLZ 10-36V SW | 5x20mm fuse, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 36/10/26-12** | 1142990000/ - |
| 1163000000 | WMF 2.5 FU BLZ 30-70V SW | 5x20mm fuse, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 70/10/26-12** | 1142990000/ - |
| 1163010000 | WMF 2.5 FU BLZ 60-150V SW | 5x20mm fuse, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 150/10/26-12** | 1142990000/ - |
| 1163020000 | WMF 2.5 FU BLZ 100-250V SW | 5x20mm fuse, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 250/10/26-12** | 1142990000/ - |
| 1162820000 | WMF 2.5 FU PE BLZ SW | 5x20mm fuse, grnd, pluggable BLZ ch. | 5mm | 300/10/26-12** | 150/10/26-12** | 1142990000/ - |
| 1162830000 | WMF 2.5 FU PE BLZ 10-36V SW | 5x20mm fuse, grnd, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 36/10/26-12** | 1142990000/ - |
| 1162840000 | WMF 2.5 FU PE BLZ 30-70V SW | 5x20mm fuse, grnd, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 70/10/26-12** | 1142990000/ - |
| 7940126467 | WMF 2.5 FU BLZ PE 60-150V SW | 5x20mm fuse, grnd, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 150/10/26-12** | 1142990000/ - |
| 1162860000 | WMF 2.5 FU PE BLZ 100-250V SW | 5x20mm fuse, grnd, pluggable BLZ ch. LED indication | 5mm | 300/10/26-12** | 250/10/26-12** | 1142990000/ - |
| 7921560000 | SIHA 3/G20 | Fuse Plug - 5x20mm, no indication | | 300/6.3/- | 600/10/- | Not Required |
| 7921570000 | SIHA 3/G20 LED 24V | Fuse Plug - 5x20mm, LED 10-36V | | 300/6.3/- | 36/6.3/- | Not Required |
| 7921590000 | SIHA 3/G20 LED 60V | Fuse Plug - 5x20mm, LED 60-150V | | 300/6.3/- | 150/6.3/- | Not Required |
| 7921600000 | SIHA 3/G20 LED 120V | Fuse Plug - 5x20mm, LED 140-250V | | 300/6.3/- | 250/6.3/- | Not Required |

Fuse-Plugs (SIHA 3/G20) must be ordered separately
*Fuse blocks must be spaced w/feed through terminal

**9.3A for BLZ plug connection

## BLZP 5.08/90

Can be mounted side-by-side without sacrificing any poles

| Pitch 5.08mm | | | | Color of plastic | |
|---|---|---|---|---|---|
| | | | | Orange | Black |
| Poles L1 | mm | inch | Qty. | Order Number | Order Number |
| 4 | 15.24 | 0.600 | 90 | 1948020000 | 1948260000 |
| 8 | 35.56 | 1.400 | 42 | 1948060000 | 1948300000 |
| 12 | 55.88 | 2.200 | 30 | 1948110000 | 1948340000 |
| 16 | 76.20 | 3.000 | 18 | 1948150000 | 1948380000 |

## BLZP 5.08/90F

With screw flange

| Pitch 5.08mm | | | | Color of plastic | |
|---|---|---|---|---|---|
| | | | | Orange | Black |
| Poles L1 | mm | inch | Qty. | Order Number | Order Number |
| 4 | 15.24 | 0.600 | 60 | 1949820000 | 1950060000 |
| 8 | 35.56 | 1.400 | 36 | 1949860000 | 1950100000 |
| 12 | 55.88 | 2.200 | 24 | 1949900000 | 1950140000 |
| 16 | 76.20 | 3.000 | 18 | 1949940000 | 1950180000 |

**Features that Deliver Optimum Flexibility**

**2 Blocks - Multiple Options**
- Feed through, fuse and disconnect

**3 Cross Connections**
- Three pluggable center channels
- Ideal for commoning potentials

**Small Form Factor**
- Up to 55% space savings with 5mm width

**Innovative Fusing**
- Blown fuse indication (LED) with low leakage rating (0.5mA)
- Provides quick disconnect

**Pluggable Connections**
- Pre-assembled cables possible
- 87% wiring time savings

**Ground Shield Attachment Point**
- With integrated ground connection
- No ground block required

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |

Pluggable  Uninsulated

**WMF 2.5**
**Single-level feed through**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |

Pluggable  Uninsulated

**WMF 2.5 DI**
**Single-level disconnect with BLZ Ch. and ground**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| 1527540000* | 1527690000* | 1061200000 | 2749340000* | 1609801044 / 1640740000 |
| - | - | - | - | 1609801044 / 1640740000 |
| - | - | - | - | 1609801044 / 1640740000 |
| - | - | - | - | 1609801044 / 1640740000 |
| - | - | - | - | 1609801044 / 1640740000 |

Pluggable  Uninsulated  * indicates new order number

**WMF 2.5 FU**
**Single-level fuse, with ground**

**SIHA 3/G20**
**Pluggable fuse**

## Ratings

### Technical data

| UL 1059 rated data | | B | C | D |
|---|---|---|---|---|
| Nominal voltage | V | 300 | | 300 |
| Rated current | A | 15 | | 10 |
| AWG conductor | | | 26-12 | |
| **r CSA C22.2 rated data** | | **B** | **C** | **D** |
| Nominal voltage | V | 300 | | 300 |
| Rated current | A | 10 | | 10 |
| AWG conductor | | | 26-12 | |

**BLZP 5.08/90**

**BLZP 5.08/90F**

# SAK Series Screw Clamp

- Meets all industry approvals
- Weidmüller's original terminal series offers the broadest configuration selection for screw clamp termination
- Maintenance-free and vibration-proof screw connection
- Creates highest contact force to prevent unwanted voltage drops
- Self-locking clamp guarantees a positive, 100% vibration-proof connection

## Feed Through Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 0380460000 | SAK 2.5/35 | Single-Level | 6mm | 600/20/20-12 | 600/25/26-10 | 0279560000/0302860000 |
| 0443660000 | SAK 4/35 | Single-Level | 6.5mm | 600/30/22-12 | 600/36/26-10 | 0117960000/0130160000 |
| 0380560000 | SAK 6/35 | Single-Level | 8mm | 600/40/22-8 | 600/47/26-6 | 0117960000/0130160000 |
| 0443760000 | SAK 10/35 | Single-Level | 10mm | 600/60/14-6 | 600/65/16-6 | 0117960000/0130160000 |
| 0380660000 | SAK 16/35 | Single-Level | 12mm | 600/80/12-6 | 600/87/14-6 | 0271160000/0303660000 |
| 0380760000 | SAK 35/35* | Single-Level | 16mm | 600/105/12-2 | 600/145/12-2 | 0303660000/0304360000 |

*To jumper SAK 35 terminals, order one bus bar (QL), screws (BS), and sleeves (VH) based on corresponding number of poles to jumper.
Example: Jumpering two SAK 35 terminals requires one 2-pole busbar (QL2), two screws (BFS) and two sleeves (VH).

## Feed Through Terminal Blocks - Multi-Level

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 0527660000 | DK 4/35 | Dual-level - 4 clamps | 6mm | 300/27/22-12 | 300/10/26-12 | 0359260000/1058800000 |
| 0590160000 | DK 4Q/35 | Dual-level - 4 clamps | 6mm | 300/27/22-12 | 300/20/26-12 | 1397160000/1058800000 |
| 0363660000 | DK 4 QV/35 | Branch Dual-level - 4 clamps | 6mm | 300/27/22-12 | 300/20/26-12 | 1397160000/1058800000 |

## Disconnect Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 0172160000 | SAKR/35 | Single-Level | 6.5mm | 600/20/30-12 | 300/10/26-12 | 0211360000 |
| 0687460000 | DKT 4/35 | Dual-Level | 6mm | 600/20/30-12 | 300/10/26-12 | 0687560000 |
| 1304960000 | DKT 4V/35 | Branch Dual-level | 6mm | 300/10/26-12 | 300/10/26-12 | 0687560000 |

## Fuse Terminal Blocks

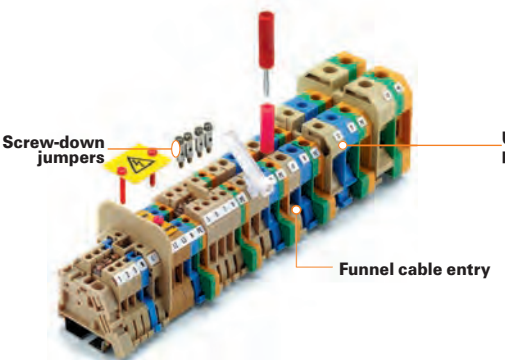
| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 0474560000 | ASK 1EN | Single level, 5x20mm fuse, combi-foot | 8mm | 300/10/26-12 | 300/10/26-12 | 0380360000 |
| 0222760001 | ASK 1EN/LD 24V H- | 5x20mm fuse,10-60VAC/DC, hinge - | 8mm | 300/10/26-12 | 300/10/26-12 | 0380360000 |
| 0225560001 | ASK 1EN/LD 120V, H- | 5x20mm fuse,100-250VAC/DC, hinge - | 8mm | 300/10/26-12 | 300/10/26-12 | 0380360000 |
| 9503350000 | KDKS 1/EN | Dual-level, 5x20mm fuse | 8mm | 300/10/26-12 | 300/10/26-12 | 9503330000 |
| 9802720001 | KDKS 1EN/LLC 10-36V AC/DC | 5 x 20mm fuse 10-36V AC/DC | 8mm | 300/10/26-12 | 300/10/26-12 | 9503330000 |
| 9908510001 | KDKS 1EN/LLC 30-70V AC/DC | 5 x 20mm fuse 30-70V AC/DC | 8mm | 300/10/26-12 | 300/10/26-12 | 9503330000 |
| 9802760001 | KDKS 1EN/LLC 100-250V AC/DC | 5 x 20mm fuse 100-250V AC/DC | 8mm | 300/10/26-12 | 300/10/26-12 | 9503330000 |
| 9528110000 | KDKS 1/EN PE | Dual-level, 5x20mm fuse, with ground | 8mm | 300/10/26-12 | 300/10/26-12 | 9503330000 |
| 0501620000 | SAKS 1/35, KRG* | 5x20mm fuse | 13mm | 600/10/22-10 | 600/10/26-10 | 0191320000 |
| 0501520000 | SAKS 1/35, KRG* | 5x25mm fuse | 13mm | 600/10/22-10 | 600/10/26-10 | 0191320000 |

* KRG denotes melamine molding material

## Ground Terminal Blocks

| Order Number | Type | Description | Width | V/A/AWG - UL | V/A/AWG - CSA | End Plate/Partition |
|---|---|---|---|---|---|---|
| 0661060000 | EK 2.5/35 | Single-Level | 6mm | - / - / 22 - 12 | - / - / 26 - 10 | Not Required |
| 0661160000 | EK 4/35 | Single-Level | 8mm | - / - / 22 - 12 | - / - / 26 - 10 | Not Required |
| 0661260000 | EK 6/35 | Single-Level | 8mm | - / - / 22 - 8 | - / - / 20 - 8 | Not Required |
| 0661360000 | EK 10/35 | Single-Level | 10mm | - / - / 14 - 6 | - / - / 14 - 6 | Not Required |
| 0190160000 | EK 16/35 | Single-Level | 12mm | - / - / 12 - 4 | - / - / 10 - 4 | Not Required |
| 0661460000 | EK 35/35 | Single-Level | 18mm | - / - / 6 - 2 | - / - / 12 - 2 | Not Required |

**Weidmüller Configurator (WMC)**
Design software to select/build assemblies to your specifications.
www.weidmuller.com/wmc




| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| 0337000000 | 0368700000 | 0383560000 | 2749340000* | 1609820000 |
| 0336700000 | 0368800000 | 0383560000 | 2749340000* | 1609840000 |
| 0456700000 | 0457000000 | 0383560000 | 2749380000* | 1856740000 |
| 0457100000 | 0457400000 | 0383560000 | 2749380000* | 1856740000 |
| 0457500000 | 0457800000 | 1061200000 | 2749380000* | 1856740000 |
| QL2-0123600000<br>VH-0267000000<br>BS-0267100000 | QL10-0338600000<br>VH-0267000000<br>BS-0267100000 | 1061200000 | 2749390000* | 1856740000 |

Screw-down, QB-Combination

Uninsulated

**SAK 4/35 GR**
**Single-level feed through**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| 0336400000 | 0368600000 | 0383560000 | 2749340000* | 1609820000 |
| 0336400000 | 0368600000 | 0383560000 | 2749340000* | 1609820000 |
| 0336400000 | 0368600000 | 0383560000 | 2749340000* | 1609820000 |

Screw-down

Uninsulated

**DK 4Q/35**
**Dual-level feed through**
**Compact design – 2-wire hook-up in one terminal**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| 0482700000 | 0482900000 | 0383560000 | 2749340000* | 1609840000 |
| 0482700000 | 0482900000 | 0383560000 | 2749340000* | 1609820000 |
| 0482700000 | 0482900000 | 0383560000 | 2749340000* | 1609820000 |

Screw-down

Uninsulated

**DKT 4/35**
**Dual-level disconnect**

| Jumpers: 2-pole | Jumpers: 10-pole | End Brackets | Screwdriver | Marking Tags - Blank (MultiCard) |
|---|---|---|---|---|
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| QB 2 - 0461100000 | QB 4 - 0461300000 | 0383560000 | 2749340000* | 1856740000 |
| Q2 - 0191400000 | Q10 - 0338800000 | 1061200000 | 2749380000* | 1856740000 |
| Q2 - 0191400000 | Q10 - 0338800000 | 1061200000 | 2749380000* | 1856740000 |

Screw-down

Uninsulated

**ASK IEN**
**Single-level fuse holder**
**Quick fuse replacement – with flip lever**

**EK 2.5/35**
**Single-level ground terminal-**
**Positive ground**
**Termination – screw-down feet make contact to both sides of rail**

# DIN-Rail Accessories

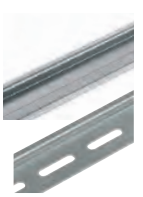
## DIN-Rail

- Available in steel, aluminum or copper
- Steel versions are electroplated and passivated for corrosion protection
- Available in solid or slotted versions (1 or 2 meter lengths)

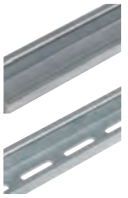
| Type | Description | Order Number |
|---|---|---|
| TS 15/LL | Slotted (Slot:4.2x12mm), Steel, 2M | 0117500000 |
| TS 15x5 | Solid, Steel, 2M | 0514200000 |
| TS 35/LL | Slotted (Slot:5.2x25mm), Steel, 2M | 0514500000 |
| TS 35 x 7.5 | Solid, Steel, 2M | 0383400000 |
| TS 35 X 15 | Solid, Steel, 2M | 0236400000 |
| TS 35 X 15/LL | Slotted (Slot:5.2x25mm), Steel, 2M | 0236500000 |
| TS 32 x 5 | Solid, Steel, 2M | 0122800000 |
| TS 32/LL | Slotted (Slot:5.2x25mm), Steel, 2M | 0514400000 |
| ER-35RAL | Raised Aluminum Rail, 1M | 7940112342 * |
| ER-35RAL/2 | Raised Aluminum Rail, 2M | 7940109753 * |
| Rail Cap (7.5) | Insulation Cap for TS 35 x 7.5 | 1283470000 |
| Rail Cap (15) | Insulation Cap for TS 35 x 15 | 1283480000 |

* indicates new order number

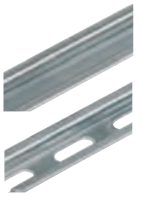
Aluminum Hi Rail (Grommets not included)



TS 35 x 7.5
Solid and Slotted



TS 35 x 15
Solid and Slotted



TS 15 x 5
Solid and Slotted

TS 32 x 5
Solid and Slotted

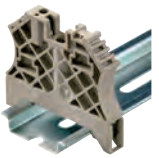
## End Brackets

- Prevents incorrect placement and ensures secure terminal positioning
- Designed to accept marking tags — can serve as group markers

| Description – Screw | Width (mm) | Order Number |
|---|---|---|
| WEW 35/2 for TS 35 | 8.0 | 1061200000 |
| EW 35 for TS 35 | 8.5 | 0383560000 |
| EWK 1/32 for TS 32 | 8.5 | 0206160000 |
| WEW 35/1 for TS 35 | 12.2 | 1059000000 |
| EW 15 for TS 15 | 8.5 | 0382860000 |
| **Description – Snap-on** | | |
| ZEW 35 for TS 35 | 6.0 | 9540000000 |
| ZEW 15 for TS 15 | 5.0 | 7920340000 |

Rail Cap for 7.5 or 15 mm rail

TS 35 - EW 35

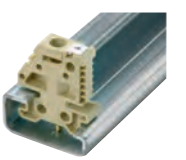


TS 35 - WEW 35/2

## Rail Markers – SchT 5 and 5S

| Description | SchT5 Order Number | SchT5S Order Number |
|---|---|---|
| Base-Carrier (SchT) | 0292460000 | 1631930000 |
| Paper Label (ESO) | 1607710000 | 1631920000 |
| Clear cover (STR) | 0294000000 | 1631940000 |
| ELS MC Marker | 1045620000 | 1045640000 |

Note: ELS marker can be printed using Weidmüller printers (i.e. MCP Plotter or PJ Pro)



TS 32 - EWK 1

TS 35 - ZEW 35/2

19.5mm wide

9.5mm wide

## DIN-Rail Cutters

Hand-operated mounting rail cutters for cutting and perforating DIN mounting rails

- Cutting with no burrs or sharp edges
- Length end stop (1000 mm) is included in delivery
- Table-top unit for mounting on workbench or similar work surfaces

| Type | Description | Order Number |
|---|---|---|
| TSLD 5<br>All purpose | For TS35X7.5, TS35X15, TS32 and TS15X5.5 DIN-rails, as well as copper earthing bars and hole punching | 9918700000 |
| TSD 35 | For TS35X7.5 or TS35x15 DIN-rails only | 1318510000 |

TSLD 5

TSD 35

# OMNIMATE Device Connectors

Device Connectivity: Printed Circuit Board (PCB)

## You are looking for reliability in your circuit board and device

## We can simplify your design-in process with a wide range of connectivity solutions

As a pioneering and leading provider of device connectivity, Weidmuller supports the entire design-in process with deep-rooted application expertise and proven know-how in finding solutions. Our global design-in support provides the perfect connection between products and services.

Our wide applications-based product line includes PCB terminals and PCB connectors as well as panel feed-through terminal blocks for industrial applications and data communications.

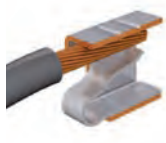
## Clamping Technology

**SNAP IN Spring Connection**

- Simple and fastest conductor connection thanks to the mousetrap concept
- Direct connection of stripped conductors without further preparation - even for flexible conductors without ferrules
- Robust and vibration-resistant wire connection with constantly high wire clamping force
- Visual and audible indication when wiring is complete
- Ready to robot thanks to open clamping point for fully automated wiring processes
- Simple and tool-free operation of the lever for rewiring

**PUSH IN Spring Connection**

- Fast, tool-less wire connection with direct insertion technology
- Stainless steel spring results in a vibration resistant connection
- Higher resistance to wire pull-out compared to a tension clamp system



**With release button**

- Amazingly simple and simply amazing in practice
- Connect and easily detach without using tools

**With no release button**

- For larger conductor cross-sections
- Includes screwdriver access point for opening the clamp

**Clamping Yoke Screw Connection**

- Vibration proof and maintenance free connection
- Wire ready technology ensures the terminal points are fully open at delivery
- Wire guard protection mechanism prevents accidental insertion of the wire underneath the clamping area

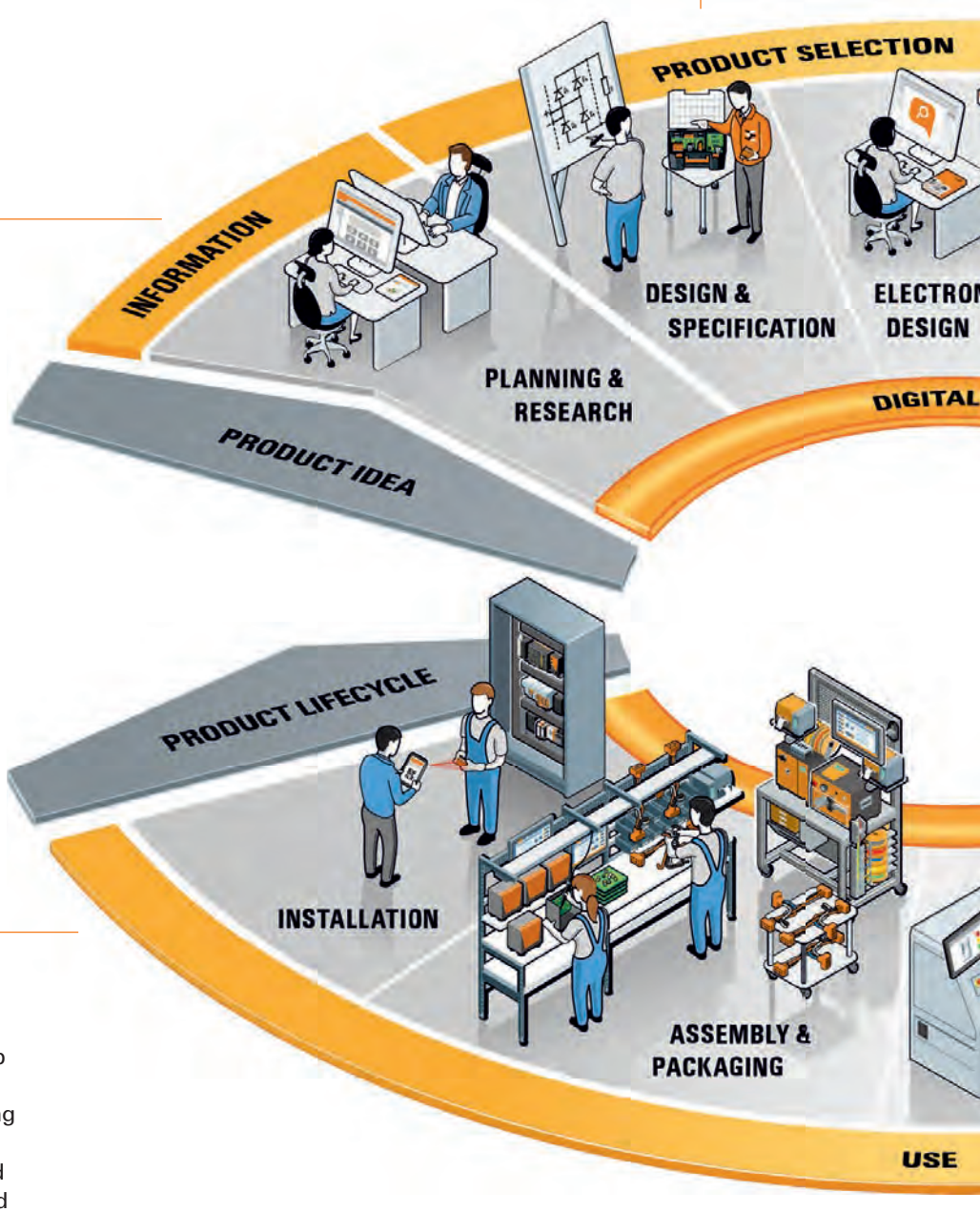
**TOP Screw Connection**

- Wire feed and the operation are aligned in the same direction
- Pull effect pulls the wire into the terminal point avoiding problems with clearance and creepage distances
- Minimum installation height results in an extremely high packing density

# Device developments designed with unique efficiency

## OMNIMATE® during a typical device development phase

Efficient planning and design-in processes save you valuable time in product development. In addition to our PCB components, we offer a wide range of support tools and services.




**Information**
We support you with specialist expertise and detailed information. Do you have any questions about device development in accordance with UL 600 V or would you like to find out about the benefits of PUSH IN technology? Our white papers and webinars provide you with comprehensive, compact and useful information.

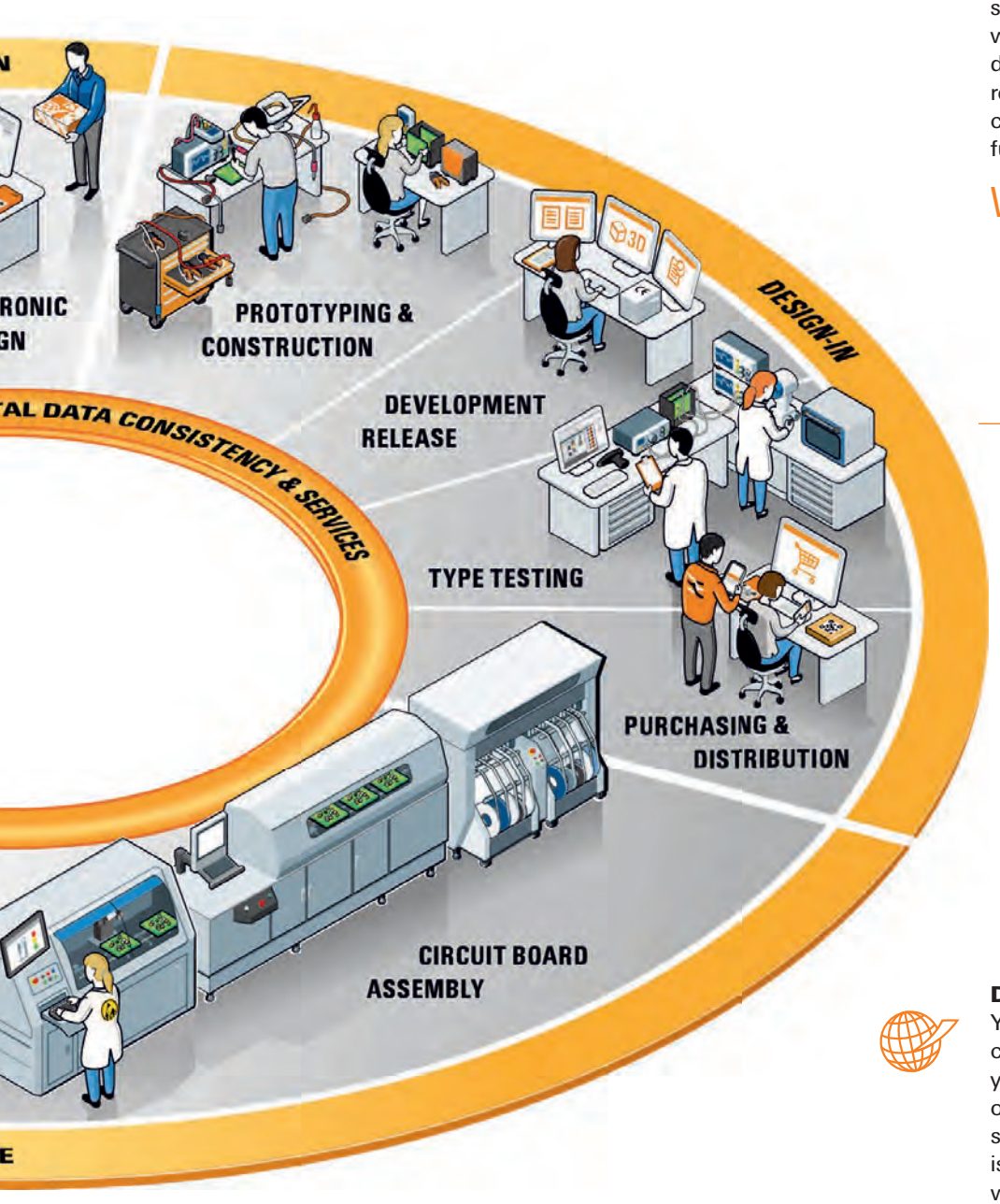
Webcode #11358

**Use**
Your information edge: Our handling videos provide you step by step with useful information and important details on handling the various products. This makes the design-in process and installation even easier, safer and more pleasant for you.

Webcode #11536

# 24/7 Online-Services

The right know-how at any time, helpful support and reliable services for your device development.
**www.weidmuller.com/omnimate-services**




**Product selection**
Precise product recommendations just one click away: Our AppGuide supports you in a simple and targeted way. Simply select the required device application and the AppGuide recommends to you the suitable connection solutions for the different functions of your device.

Webcode #01170

**Design-in support**
You can adapt PCB terminals, connectors and electronics housings to your application, as required, using our online configurators. With the sample service, your personal design-in sample is in your hands. Free of charge and worldwide.

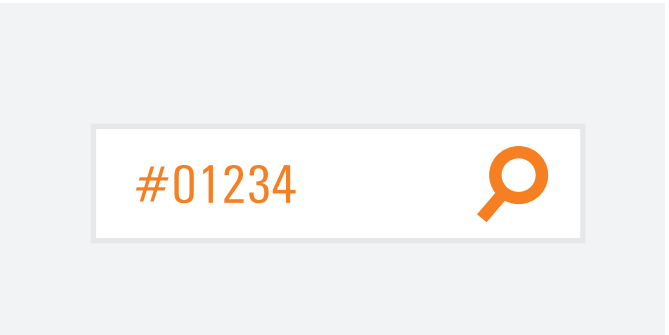
Webcode #01162

# Many ways lead to the right product

## Our online services as process-optimization tools

There is more than one route to the final layout. Our support concept will assist you in all of your search and selection options.

Weidmuller has fundamentally re-designed the selection and ordering process for device connectivity in a way that better suits your application. In the future, there'll no longer be just the one path to the right product; there'll just be the right path: yours.




### Webcode selection

For an application, you need certain specifications for certain products. Our new webcode allows you to go directly to the relevant products: simply choose the required product from the following pages and enter the hashtag with five-digit code on our website and you'll be directed to the relevant details.

www.weidmuller.com

### The AppGuide

When working with applications, you'll need to find ways of successfully implementing your ideas. Simply select your device application in our AppGuide, and we will recommend a range of products for all the different functions of your device.

Webcode #01171

### Specification filters

In our online catalog in the area of device connectivity, you filter the right product in seconds using your product and application requirements.

Webcode #11534

# Webcode: the hashtag for easy product searching

A hashtag followed by five digits – that's all you need to find out information about the products in our wide-ranging portfolio. Entering the sequence of characters activates certain product groups or an individual product.

**Where can I find the webcode?**
Next to the product, either in this catalog or online.

**Where do I enter the webcode?**
Just enter the code into the search screen on our website. *

**Where will I be directed to once I've entered the webcode?**
You'll be taken to the product specifications and technical details, as well as additional info and downloads.

* Note: Make sure that the pop-up blocker settings are disabled

# Your device application
## Our AppGuide for device developers

Based on your application, the AppGuide will show you a representative range of products for the different functions of your device.

The overview will show you the application as you know it. Move the cursor over the markings to find out information on the connection technology for sub-assemblies and components. And it's just a few more clicks from here to your desired product.

**AppGuide**
for device developers

Webcode #01170

### AppGuide
Simply select your device application in our AppGuide and we will recommend a range of products for all the different functions of your device.
**www.weidmuller.com/appguide**

### 1. Open the AppGuide

Go to: www.weidmuller.com/appguide or use the **Webcode #01171**

### 2. Select the application

Hotspots will show you the way to our recommended products

# Go directly to your application with the webcode

Industrial controls

Drive controllers and regulators

Devices of machine safety

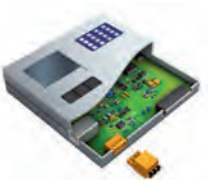
Analogue signal converter

Photovoltaic inverter

Power supply

Radio base stations

Heating electronics



Building security equipment

LED lighting systems

Elevator electronics devices

Smart Meter

Industrial IoT Network

Charging infrastructure for e-mobility

## 3. Select product group

Use the hotspots to find the perfect products for your applications

## 4. Receive the product

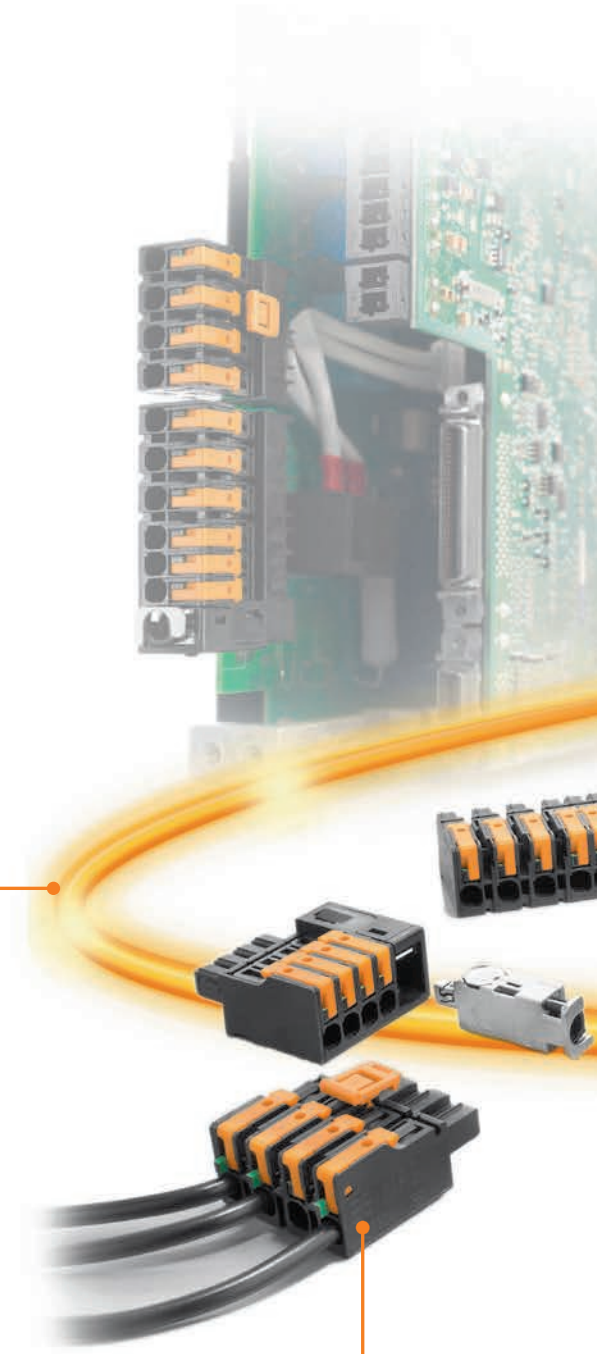
Configure your selection and use the available functions of our online catalogue

# The business booster for next generation devices

## OMNIMATE® 4.0 – Fast. Flexible. Digital.

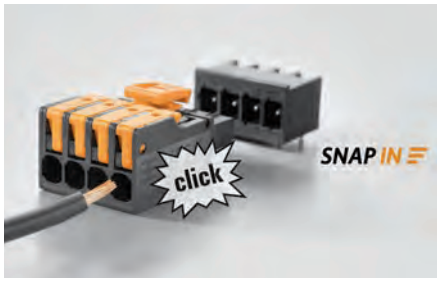
The demands on the development of electrical devices are constantly increasing. This leads to higher complexity and challenges device developers. OMNIMATE® 4.0 is the efficient solution for a continuous, digitalised device development process for the connected world of tomorrow.

The modular product concept of OMNIMATE® 4.0 enables flexible configuration and ordering via the Weidmüller Configurator (WMC). This enables even highly individual products to be shipped within days – from samples to product series. The innovative SNAP IN connection technology allows even flexible conductors without ferrules to be connected easily without tools. An indicator signals the secure connection both acoustically and visually.

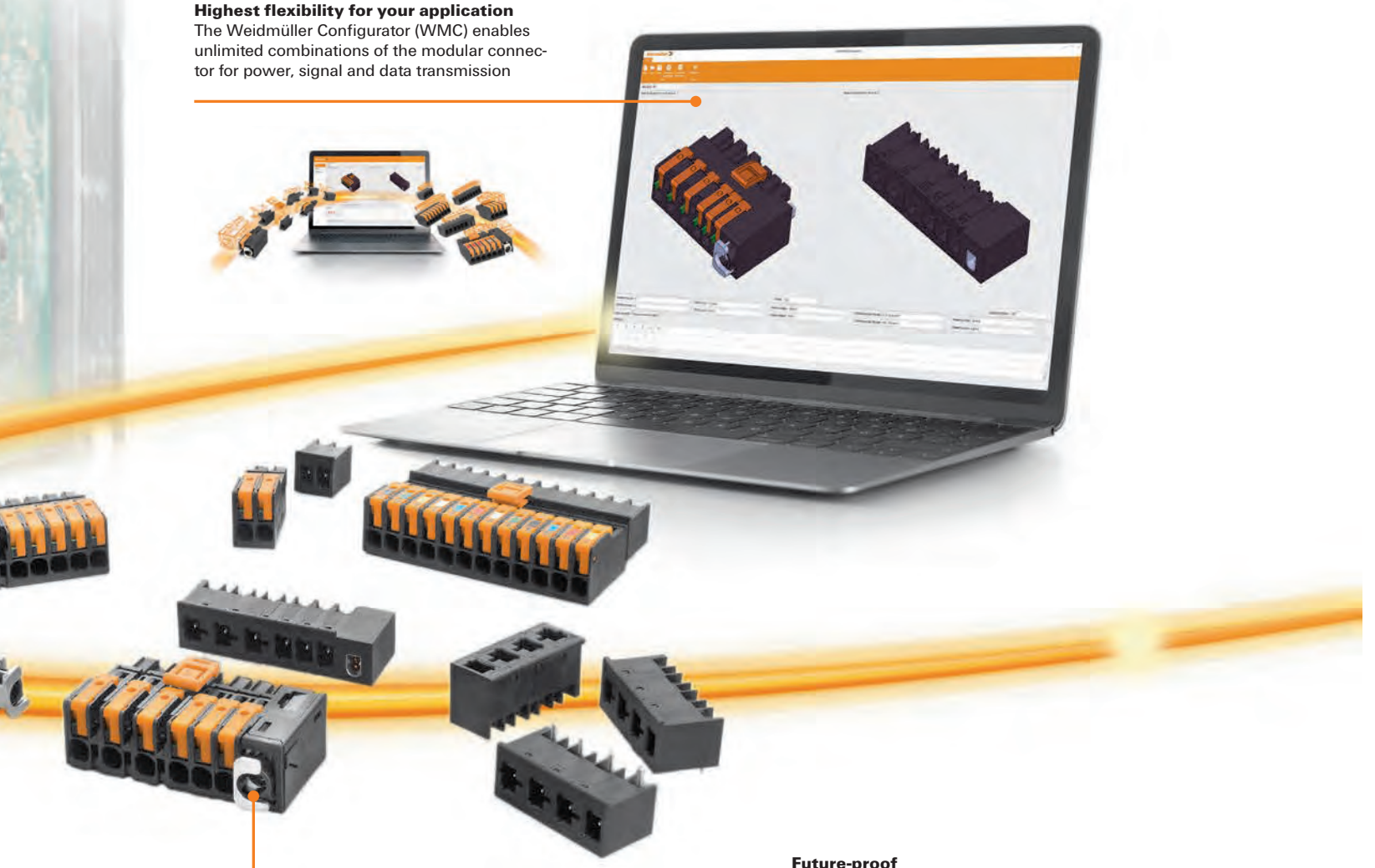


**Fast Delivery Service**
All products are ready for dispatch within days – even individually configured products

**Maximum wiring speed**
Unique SNAP IN connection for particularly fast, safe and tool-free wiring



**Highest flexibility for your application**
The Weidmüller Configurator (WMC) enables unlimited combinations of the modular connector for power, signal and data transmission



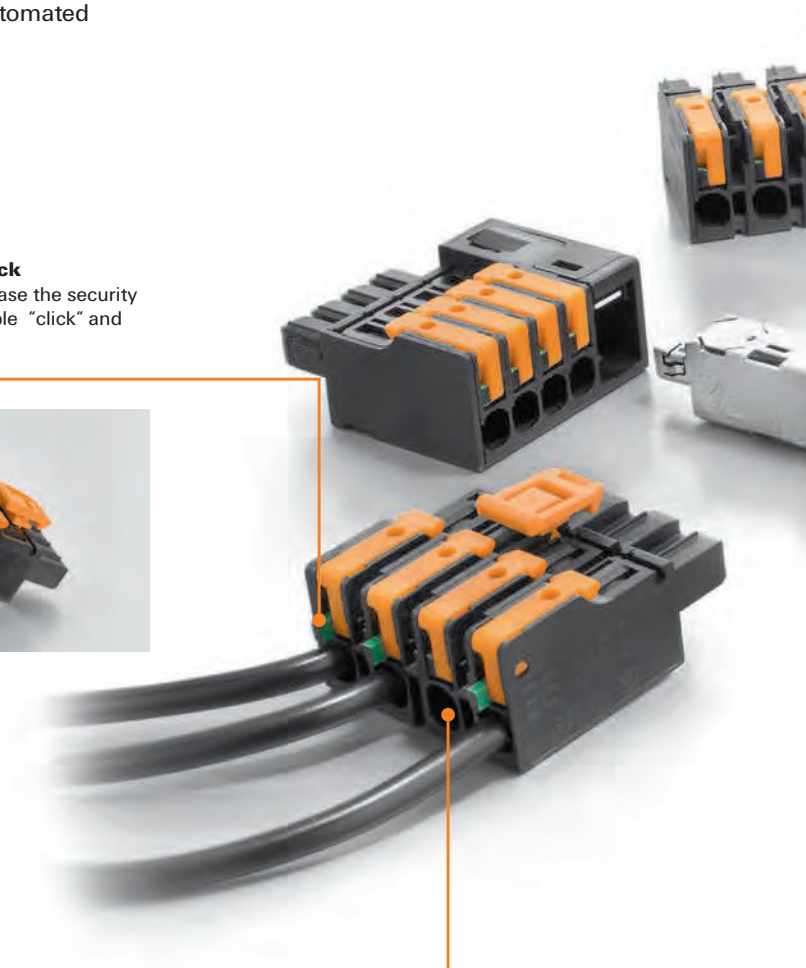
**Future-proof**
Platform-Connector with integrated functions like Single-Pair Ethernet or smart connectors with related digital twin

# SNAP IN connection solution for the next generation devices

## OMNIMATE® 4.0 – Fast. Flexible. Digital.

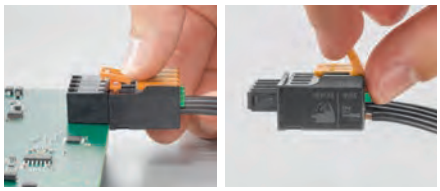
OMNIMATE® 4.0 provides a flexible, future-proof product portfolio with unlimited variations. The modular design allows fast configuration of interfaces for transmitting data, signals and power, even in a single hybrid connector. For the first time, the innovative SNAP IN connection technology is used in device connectors, revolutionizing the wiring of devices. Even flexible conductors without ferrules can be connected intuitively and without tools - even in fully automated wiring processes.

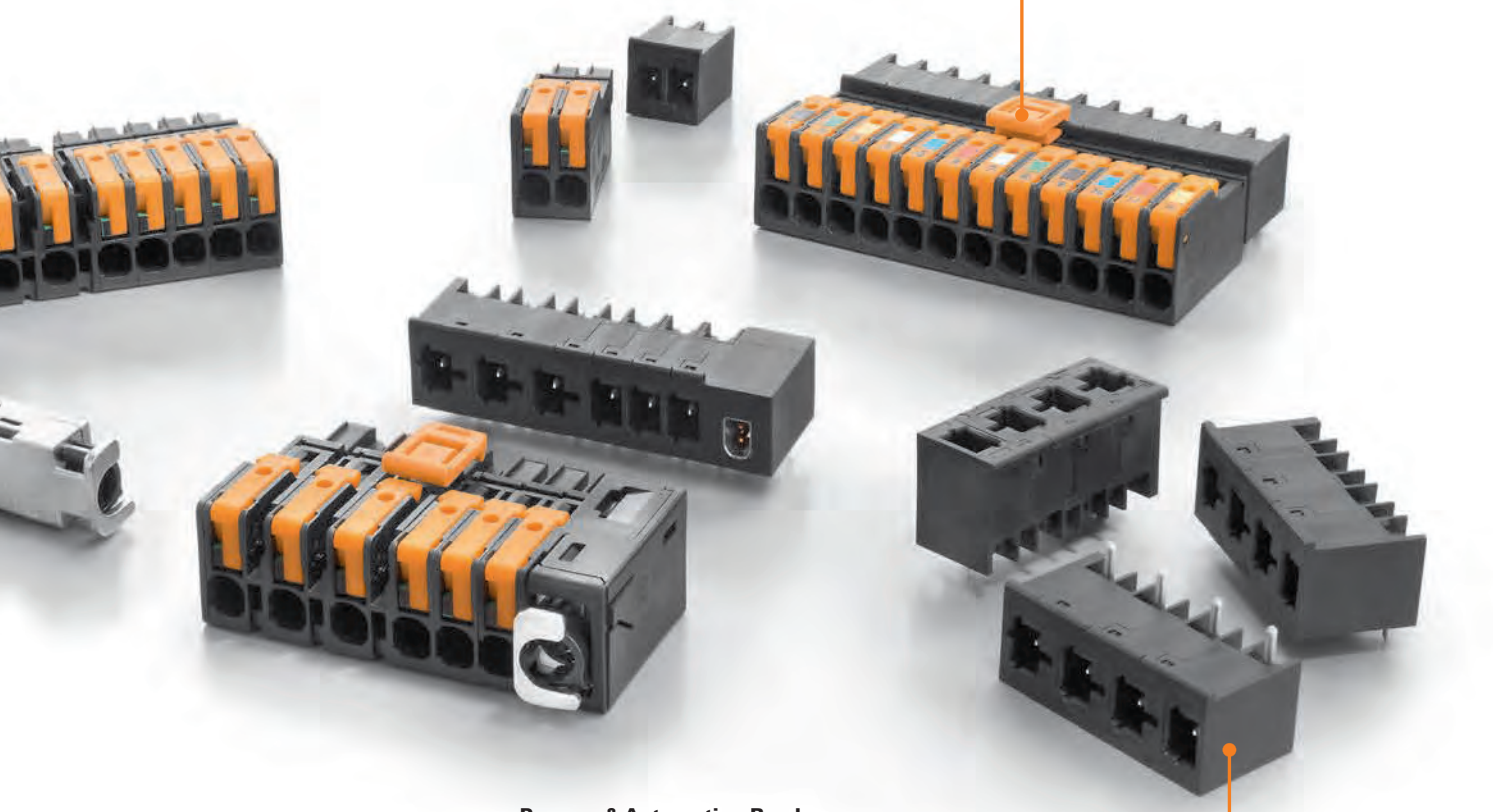
**Hearable and visible feedback**
The visual safety indicator increase the security of the proper wiring by a hearable "click" and visible green indication



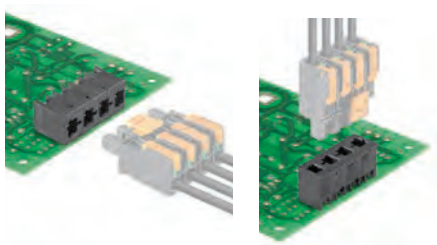
**Wire-ready & Ready-to-Robot**
Thanks to the innovative SNAP IN connection technology flexible conductors can be connected directly & tool-free in record time – even in fully automated wiring processes

**Easy and intuitive handling**
Complete tool-less handling thanks to the lever for re-wiring and the one-hand usable top-fixation for preventing undesired disconnection





**Process & Automation-Ready**
High performance material for different soldering methods like THT or THR with precise pin tolerances and automation-ready packaging

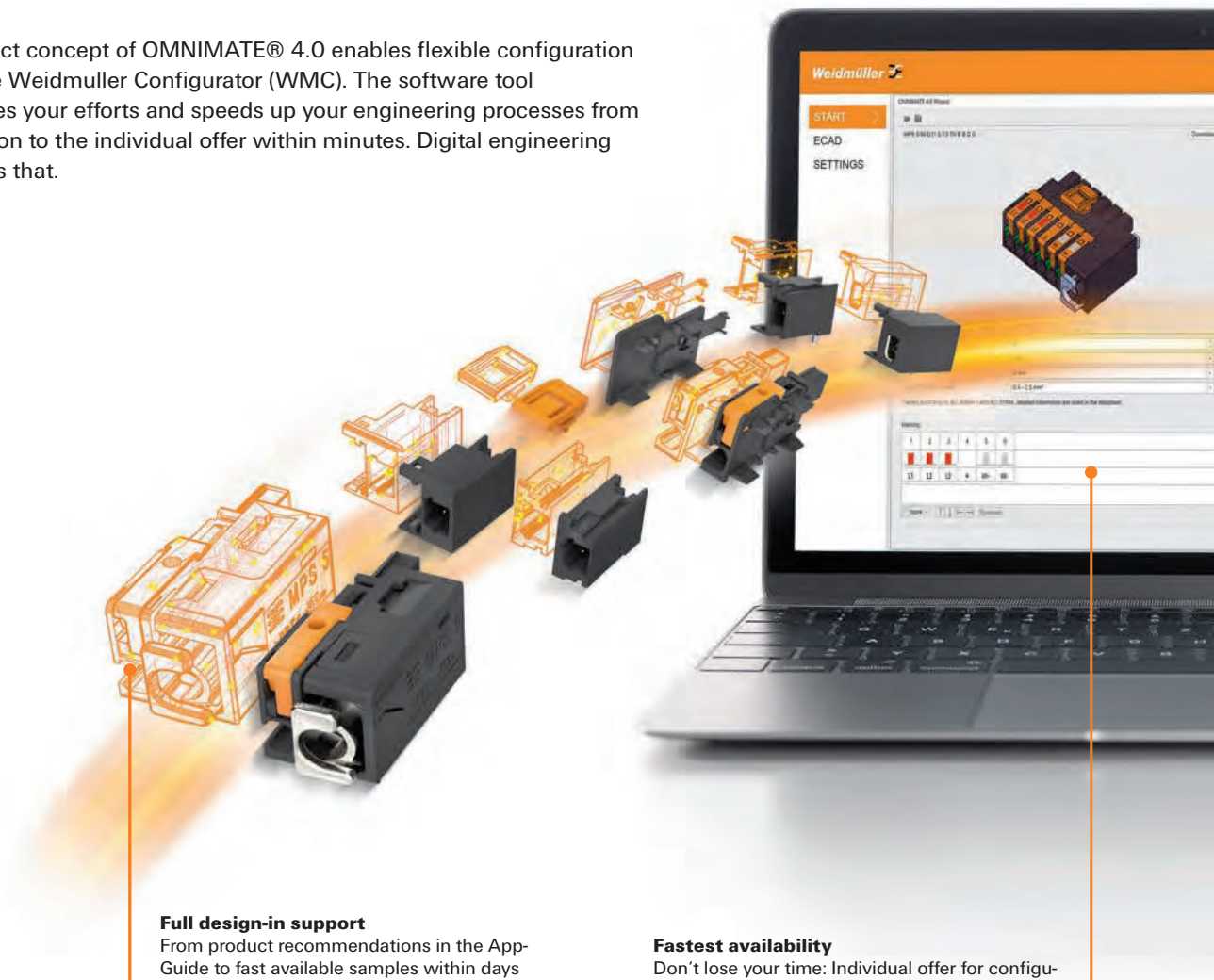


# The efficient solution for a digitalized device development process

## OMNIMATE® 4.0 – Fast. Flexible. Digital.

Your are looking for a specific solution perfectly fitted to your individual devices and their requirements.

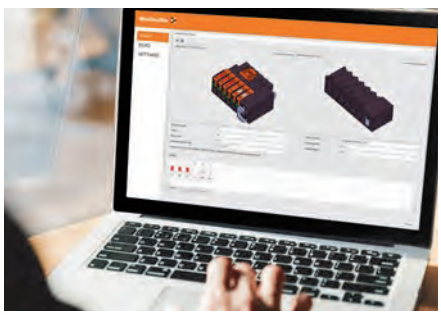
The modular product concept of OMNIMATE® 4.0 enables flexible configuration and request via the Weidmuller Configurator (WMC). The software tool significantly reduces your efforts and speeds up your engineering processes from product specification to the individual offer within minutes. Digital engineering can be as simple as that.




**Full design-in support**
From product recommendations in the App-Guide to fast available samples within days to the support of installation with handlings videos – our OMNIMATE ® services reduce your Design-In efforts

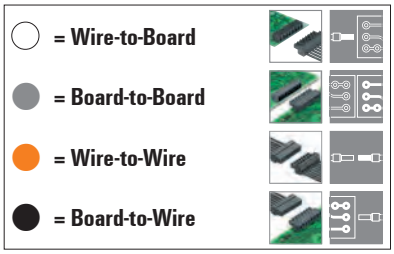
**Fastest availability**
Don't lose your time: Individual offer for configuration is ready within minutes and all products are ready to dispatch within days

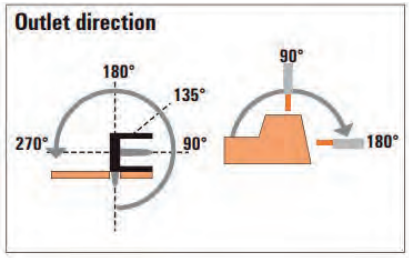
**Create your own configuration**
The Weidmüller Configurator (WMC) reduce your engineering efforts: Combine power, signal and data modules to your individual product and design the marking with a few clicks



**Time-saving engineering data**
Comprehensive data sheets, individual drawings and 3D models plus prepared EDA data for PCB layout - OMNIMATE® 4.0 brings the full design-in support for mechanical and electrical engineering

**http://www.OMNIMATE.net**




## MPS/MHS series

| | | Type | Pitch | Outlet direction | Fixation options | IEC / UL |
|---|---|---|---|---|---|---|
| Female plug | Spring SNAP IN | | **MPS 5/.. S..** | **5.00 mm** | 180° | Optional top fixation (F) | IEC: 400 V / 26.8 A / 0.5 - 4 mm²<br>UL: 300 V / 18.5 A / AWG 20 - AWG 12 |
| | | | **MPS 7S - S** | **7.50 mm** | 180° | Optional top fixation (F) | IEC: 1000 V / 26.8 A / 0.5 - 4 mm²<br>UL: 600 V / 18.5 A / AWG 20 - AWG 12 |
| | | | **MPS 7S/.. -5/.. S** | **Hybrid 7.50 mm + 5.00 mm** | 180° | Optional top fixation (F) | IEC: 1000 V / 26.8 A / 0.5 - 4 mm²<br>UL: 600 V / 18.5 A / AWG 20 - AWG 12 |
| | | | **MPS 5/.. D11 S** | **Hybrid 5.00 mm + SPE** | 180° | Optional top fixation (F) | IEC: 400 V / 26.8 A / 0.5 - 4 mm²<br>UL: 300 V / 18.5 A / AWG 20 - AWG 12 |
| | | | **MPS 7S/..-5/.. D11 S** | **Hybrid 7.50 mm + 5.00 mm + SPE** | 180° | Optional top fixation (F) | IEC: 1000 V / 26.8 A / 0.5 - 4 mm²<br>UL: 600 V / 18.5 A / AWG 20 - AWG 12 |

## Male Header

THR

**Reflow solder connection**

| | MHS 5/.. H | MHS 5/.. V | MHS 5/.. W | MHS 7S/.. H | MHS 7S/.. V | MHS 7S/.. W | MHS 7S/.. -5/.. H | MHS 5/.. D11 H | MHS 7S/..-5/.. D11 H |
|---|---|---|---|---|---|---|---|---|---|
| | **5.00 mm** | **5.00 mm** | **5.00 mm** | **7.50 mm** | **7.50 mm** | **7.50 mm** | **Hybrid 7.50 mm + 5.00 mm** | **Hybrid 5.00 mm + SPE** | **Hybrid 7.50 mm + 5.00 mm + SPE** |
| | 90° | 180° | 270° | 90° | 180° | 270° | 90° | 90° | 90° |
| | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation | Compatible with top fixation |
| | IEC: 400 V / 26.8 A<br>UL: 300 V / 18.5 A | IEC: 400 V / 25.3 A<br>UL: 300 V / 18.5 A | IEC: 400 V / 26.8 A<br>UL: 300 V / 18.5 A | IEC: 630 V / 26.8 A<br>UL: 300 V / 18.5 A | IEC: 630 V / 25.3 A<br>UL: 300 V / 18.5 A | IEC: 630 V / 26.8 A<br>UL: 300 V / 18.5 A | IEC: 630 V / 26.8 A<br>UL: 300 V / 18.5 A | IEC: 400 V / 26.8 A<br>UL: 300 V / 18.5 A | IEC: 630 V / 26.8 A<br>UL: 300 V / 18.5 A |
| | ○ | ○ | ○ | | | | | | |
| | | | | ○ | ○ | ○ | | | |
| | | | | | | | ○ | | |
| | | | | | | | | ○ | |
| | | | | | | | | | ○ |

# Single Pair Ethernet

## The network infrastructure for Industrial IoT

In the factory of the future, machines and systems will be connected to each other consistently via data infrastructure. These cyber-physical systems can act independently in the Industrial Internet of Things (IIoT), communicate in real time and control production processes. In order to enable this, a continuous network with high-performance data connections from the sensor to the cloud is required. This pushes conventional Ethernet systems to their limits.

Single Pair Ethernet (SPE) facilitates the extension of the Ethernet to the sensor. It is compact, flexible and enables high ranges. This means that data connections are achievable in situations where conventional Ethernet systems have reached their limits. SPE provides for the extension of existing installations and supports consistent communication based on the Ethernet protocol. Indeed, SPE is considered by Weidmuller as the missing component needed to close the current gap in the supply of standard Ethernet at field level.

SPE runs at the same transmission speeds as conventional Ethernet but with simplified 2-wire cabling technology and data lines up to 1,000 m in length. Together with other new technologies such as TSN, OPC-UA or 5G, SPE enables both continuous IP communication between the server and the cloud, as well as supplying up to 60 Watts of power in complex IIoT solutions through PoDL (Power over Data Line).

# The new standard for high demands
## SPE connectors for the industry

SPE connections can transfer data and power using only one twin wire. This enables both end-to-end IP communication between server and cloud, as well as power supply in complex IIoT solutions. SPE connectors therefore are particularly efficient and future-oriented.

**The market requirements for data connectors in the field level are:**
- Smallest, most compact design possible for implementing IIoT devices
- High robustness for use in industrial environments
- Easy to connect for safe, fast installation
- Future-proof design through international standards

**Advantages of SPE connectors at a glance:**

**Miniaturization**

**Industrial suitability**

**Simplicity**

**Future-proof**

# Particularly compact

## Miniaturization of SPE connectors according to IEC 63171-2

Weidmuller has been developing user-friendly connectors for industrial use, according to IEC63171-2. With a pitch of 7.62mm the compact connector system saves up to 50% space in comparison to RJ45 interfaces. The vertical arrangement of the two contacts allows a very high packing density. This enables device manufacturers to save valuable space on the PCB and to build smaller devices. This reduces port costs in device construction and effectively saves space in the control cabinet.

**Small mating face**
- Currently the smallest mating face according to IEC 63171 on the market

**High packing density**
- Double the packing density compared to RJ45 connectors
- Doubling of the interfaces with the same housing contour
- Only 20% of the volume of an RJ45 jack
- Minimum space requirement in the device

**Easy IP67-integration**
- Can be integrated into standard M8 housings and connectors as with I/O-Link or PROFINET
- M8 connectors with male and female contacts available
- Front and rear panel mounting with male and female contacts supported
- Simple integration in M8 sensors
- Inverse M8 system possible

# Made for highest demands

## The industrial suitability of SPE connectors

Originally developed for automotive applications, the aim of single pair ethernet technology was to realize the most efficient infrastructure capable of delivering high performance with as little cabling as possible. There are similar expectations within industry applications and building automation where the number of intelligent end devices in the plant is increasing but the amount of available space is not.  Weidmuller SPE connector solutions deliver long cable lengths, a compact design that is simple, robust and vibration-proof, as well as being insensitive to electromagnetic influences.

**Mechanical robustness**
- Robust metal housing with metal snap-in hooks
- Safe industrial double contacting compared to single-sided contacting RJ45
- Shock resistant and vibration resistant according to IEC 60068
- Stable latching with lateral forces

**EMC Compatibility**
- Coupling attenuation at 600 MHz according to IEEE 802.3
- Additional burst test according to IEC 61000-6-2
- Optimum shield connection on the PCB due to four symmetrical legs

**Industrial suitability**
- PCB connectors for environments up to pollution degree 2
- Impulse voltage strength of 2.25 kV according to IEEE 802.3
- Optimum contact distance for 100 Ohm systems

# Easy to use
## The simplicity of SPE connectors

Ethernet technology is too complex for many industrial applications. SPE components are clearly superior due to their simplicity. Compared to four-pair Ethernet, installation is less difficult and allows a significant reduction in space and weight. SPE connectors also enable robust cabling in a short time. At the same time, they offer extended cable lengths in an extremely compact design.

**Proven locking mechanism**
- Industry standard plugs and sockets with metal Snap-in locking hooks
- Known locking and unlocking mechanism as for RJ45 connectors
- High holding force (> 50 N)

**Tool-free installation**
- Well proven IDC connection technology
- Simple assembly due to a two-part connector
- Clear colour coding to prevent miswiring
- Suitable for all commercially available SPE cables

**Easy integration**
- Trouble-fee integration into M8 housings and connectors
- Compatibility of IP20 and IP67 variants
- Optional use of the IP20 connector as service connector for devices with M8 IP67 interfaces

# Ready for the challenges of tomorrow
## Future-proof SPE connectors

SPE is the next milestone in network technology, as it enables continuous intelligent networking across all levels. SPE is scalable, deterministic and fully compatible, allowing all components to communicate with each other. As a comprehensive key technology for applications in the field of Industry 4.0 and IIoT, it will form the core of a wide range of industrial applications in the future.

**Extensive support**
The SPE product family is already supported by several well-known connector manufacturers, which have joined together to form the Single Pair Ethernet System Alliance. This collaboration, with leading technology companies from a wide range of markets and application areas, means that the level of combined technological competence will result in unprecedented and lasting benefits for all users.

Single Pair Ethernet System Alliance

IEEE

IEC

**Suitable for low to high transmission rates**
With SPE components, only a compact IEC standard interface is required to connect a sensor to the cloud via the data centre. The interface is suitable for various Ethernet applications with transfer rates from 10 MB/s to 1 GB/s. Simulations confirm a bandwidth of up to 2.5 GHz – this corresponds to the new Ethernet transmission standard IEEE 802.3ch. which is currently under development for up to 10 GB/s.

**Increase of the port density**
In the near future, a new and innovative four-chamber system will be available that will enable the port density for IP20 and IP67 systems to be quadrupled. This means that SPE technology can also be used in standard M12 connectors.
It will also allow extremely compact IIoT devices with 32 ports to be implemented and can be integrated into existing housing structures.

# Single Pair Ethernet Solutions
## Ordering data

### IP-20 SPE cabling

| Type | Versions | Qty. | Order Number. |
|---|---|---|---|
| IE-S1DS2VE0010T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 1m | 1 | 2725850010 |
| IE-S1DS2VE0020T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 2m | 1 | 2725850020 |
| IE-S1DS2VE0030T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 3m | 1 | 2725850030 |
| IE-S1DS2VE0050T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 5m | 1 | 2725850050 |
| IE-S1DS2VE0100T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 10m | 1 | 2725850100 |
| IE-S1DS2VE0150T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 15m | 1 | 2725850150 |
| IE-S1DS2VE0400T01T01-E | Patch cable overmoulded, IP 20, Female-Female, 40m | 1 | 2725850400 |

### IP-67 SPE cabling

| Type | Versions | Qty. | Order Number. |
|---|---|---|---|
| IE-S1DS2VE0020TM1TM1-E | Patch cable overmoulded, M8 IP 67, Female-Female, 2m | 1 | 2726050020 |
| IE-S1DS2VE0050TM1TM1-E | Patch cable overmoulded, M8 IP 67, Female-Female, 5m | 1 | 2726050050 |
| IE-S1DS2VE0100TM1TM1-E | Patch cable overmoulded, M8 IP 67, Female-Female, 10m | 1 | 2726050100 |
| IE-S1DS2VE0150TM1TM1-E | Patch cable overmoulded, M8 IP 67, Female-Female, 15m | 1 | 2726050150 |
| IE-S1DS2VE0200TM1TM1-E | Patch cable overmoulded, M8 IP 67, Female-Female, 20m | 1 | 2726050200 |
| IE-S1DS2VE0400TM1TM1-E | Patch cable overmoulded, M8 IP 67, Female-Female, 40m | 1 | 2726050400 |

| | | | |
|---|---|---|---|
| IE-S1DS2VE0020TM1TM2-E | Patch cable overmoulded, M8 IP67, Female-Male, 2m | 1 | 2726060020 |

| | | | |
|---|---|---|---|
| IE-S1DS2VE0020TM2TM2-E | Patch cable overmoulded, M8 IP67, Male-Male, 2m | 1 | 2726070020 |

## PCB components & field attachable components

| | Type | Versions | Qty. | Order No. |
|---|---|---|---|---|
| | IE-PCB-SP0-P-90V-THR | PCB connector, IP20, 90°, THR Male | 100 | **2726010000** |
| | IE-PCB-SP0-P-90V-THR-YG/YG | PCB connector, IP20, 90°, LED, THR, Male | 100 | **2795120000** |
| | IE-PCB-SP0-P-180V-THR | PCB connector, IP 20, 180°, THR, Male | 100 | **2795170000** |
| | IE-PS-SP0-S-FH-180 | Field attachable plug IP20, Female | 1 | **2726040000** |
| | IE-BHD-SPE-M8-0T-FP | M8 Device housing, front panel mounting | 10 | **2726020000** |
| | IE-BHD-SPE-M8-0T-BP | M8 Device housing, back panel mounting | 20 | **2726030000** |
| | IE-BHD-SPE-BP-CN-M10X0.75 | Befestigunsmutter für M8 Gehäuse | 10 | **2739640000** |
| | IE-PCB-SPM-P-180-THR | M8 SPE insert, 180°, THR, Male | 100 | **2735920000** |
| | IE-PCB-SPM-P-180-SMD | M8 SPE insert, 180°, SMD, Male | 100 | **2795110000** |
| | IE-PCB-SPM-P-90-THR | M8 SPE insert, 90°, THR, Male | 100 | **2795100000** |
| | IE-AD-SP0-P-SPM-P-90 | SPE IP20 to SPE M8 adapter / panel feed-through, Male | 1 | **2814400000** |

# Industrial IoT network as a reference for OMNIMATE® Data device connection technology

Ethernet devices such as switches, safety routers or IoT gateways are perfect communication components within an industrial network. For simple to complex real-time networks in plant and machine construction, different categories of devices are used. They form a perfect platform in the industrial environment and its connection to superordinate office networks and cloud services. In order for the communication between Ethernet-capable devices to function smoothly, high-performance connectors are required that can withstand the high requirements in terms of EMC and temperature resistance.

**Service Interface**
Standardized connectors such as the USB or D-SUB (RS-232) for serial interfaces.

**Ethernet-Ports**
High-performance connectors for data transmission including a wide range of Single Pair Ethernet products for miniaturization and future security.

**Input and output signals**
PCB terminal blocks and connectors with a pitch of 3.50 to 5.08 mm with PUSH IN connection and high packing density

**Power Supply**
Intuitive connectors with visual connection indicators or supply of neighbouring components by means of cross-connections.

**Internal board connection**
Industry-compatible board-to-board connectors, which are specially designed for the fully automatic assembly process, ensure flexible and at the same time stable connections between circuit boards in the device.

# Your ideas need the right connections
# Ours are simply brilliant

**OMNIMATE® 4.0**
**SNAP IN connection solutions**

SNAP IN

- Unique SNAP IN connection for particularly fast, safe and tool-free wiring
- Maximum flexibility with digital configuration for transmitting power, signals and data in one connector
- Future-proof platform connector with integrated functions, such as Single Pair Ethernet
- All products are ready for shipment within 3 days – including individually configured products“

**OMNIMATE® Data**
**Single Pair Ethernet Connectors**

- Devices can become significantly smaller - Most compact design for implementing IIoT devices (saving of > 50 %)
- Vibration-proof and insensitive to electromagnetic influences - Particularly robust, industry-compatible construction
- The colour-coded two-wire connection technology saves installation time and avoids connection errors - Userfriendly structure for safe and quick installation
- Suitable for IIoT, corresponds to the latest IEEE / IEC standards for data rates from 10MB/s to 1GB/s. High future security through compliance with international standards
- Safe locking - Even in the smallest installation space, a robust locking mechanism up to 50N is ensured (acoustic feedback during the mating process)
- Reliable process - Trouble-free assembly due to sharpened pin geometry, guide posts and Tape on Reel packaging

**OMNIMATE® Data**
**RJ45 modular and transformer jacks**

- Future-proof transmission characteristics up to Cat 6 standard for a data rate of up to 1GB/s
- Electromagnetic compatibility and protection through 360° shielding
- RJ45 transformer jacks with integrated "magnetics" actively counteract faults and save space on the board
- Reinforced gold layer improves corrosion protection, reduces contact problems and guarantees a long service life

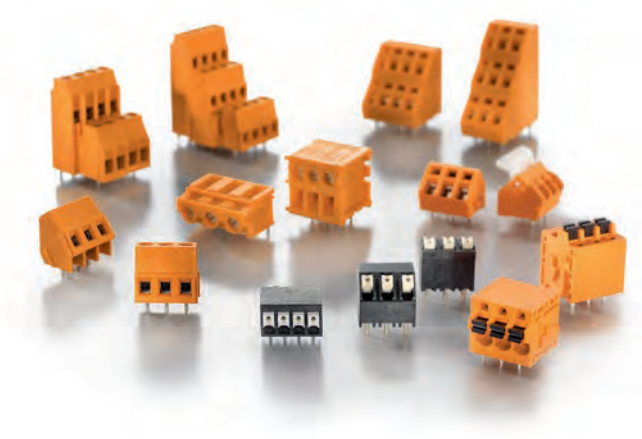
**OMNIMATE® Data**
**USB PCB jacks**

- Robust plug & play operation - connect and disconnect without shutting down or restarting the system
- Reinforced gold surface - up to 1,500 plugging cycles meet the requirements for high resistance
- High rated current of up to 1.5 A provides sufficient safety reserves with a maximum charging current of 0.9 A
- Flexible deployment thanks to the compatibility of USB 3.0 hosts and devices with version 2.0

**OMNIMATE® Data**
**D-SUB PCB connectors**

- Simple installation - Due to the straight and angled designs, the sockets integrate into any installation situation.
- High performance – Established locking systems in combination with polarisation and protection of the contacts fulfil standards in electronical applications.
- Broad range of applications – In compliance with the dimensions according to IEC 60807-3 (IEC 807-3) and DIN 41652, a wide variety of applications, such as measuring devices, interfaces and electronic devices, are covered.

# Your ideas need the right connections
# Ours are simply brilliant



**OMNIMATE® Signal**
**PCB terminals**

PUSH IN

- Application-oriented connection systems ranging from clamping yoke screw connections to PUSH IN spring connections in all relevant cross-section ranges up to 6 mm²
- Can be used universally in all standard pitches from 3.50 mm to 7.62 mm
- A wide range of reflow-compatible products for automated SMT processes
- Compact, multi-layer designs up to 72-pole

**OMNIMATE® Signal**
**PCB plug-in connectors**

PUSH IN

- Compact at 2.50 mm pitch
  36 connections at 3.50 mm pitch, highest level of power reserves at 3.81 mm pitch and largest application area at 5.08 mm pitch
- Application-orientated connection systems ranging from clamping yoke screw connection to PUSH In spring connection plus the innovative, award winning SNAP IN connection
- A wide range of reflow-compatible products for automated SMT processes
- Multi-row and multi-layer designs up to 48-pole

**OMNIMATE® Signal**
**Board-to-Board connectors**

- Industrial suitable density combined with high flexible connection combinations (mezzanine, mother-to-daughter, extended-board and Board-to-wire)
- Pitch 1,27 mm from 12 – 80 poles in different outlet-directions and heights
- Developed for automatic assembly with high precise pin coplanarity and SMT-fixation
- Reliable contact surface (PdNi-Au) equipped in high-performance material LCP and packed in Tape on reel for automatic assembly

## OMNIMATE® Power
## PCB terminals

PUSH IN

600V

- High-power to 150 A / 1000 V (IEC) or 127 A / 600 V (UL)
- Application-oriented scalability with connection cross-sections from 16 mm² to 50 mm²
- Simple UL device approval up to 600 V
- PUSH IN wire connection up to 16 mm²
- Maintenance-free steel clamping yoke for vibration-resistant screw connections

## OMNIMATE® Power
## PCB plug-in connectors

PUSH IN

600V

- Application-oriented scalability: from the compact 4 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² connector for 76 A (IEC) or 60 A (UL)
- Unlimited usage up to 1000 V (IEC) or 600 V (UL)
- A variety of application-optimized mounting options

## OMNIMATE® Power
## Panel feedthrough terminal blocks

PUSH IN

- Clamping yoke screw connection
- PUSH IN wire connection
- Wall and housing feedthrough
- Simple, flexible and cost-saving assembly and connection of conductors
- Cable lug
- Solder connection

# Your ideas need the right connections
# Ours are simply brilliant

## OMNIMATE® Housings

PUSH IN

- Scalability to meet requirements: from extruded profile to compact housing to modular housing
- Customizable
- Installation housing IP20
- Female plug with mismating protection
- PUSH IN wire connection
- Clamping yoke screw connection
- Suitable for an automated soldering process with THT & THR Solderable male connectors with high-temperature LCP material and optional tape-on-reel packing

# OMNIMATE® 4.0– SNAP IN Connection solutions

## Pitch 5.00 mm

Webcode #11530

**MHS 5**

Male connector with 90°, 180° and 270° outlet direction for wave and reflow processes.

- Male header
- Pitch: 5.00 mm
- Number of poles: 2 –12
- IEC: 400 V / 26.8 A
- UL: 300 V / 18.5 A

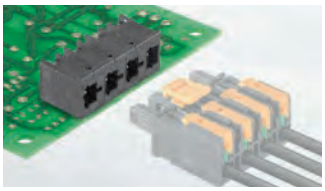
Webcode #11531

**MPS 5**

Female plug with 180° outlet direction, SNAP IN connection technology and optional self-locking top flange.

- SNAP IN connection
- Pitch: 5.00 mm
- Number of poles: 2 –12
- IEC: 400 V / 26.8 A / 0.5–4 mm²
- UL: 300 V / 18.5 A / AWG 20–12/7/9

## Pitch 7.50 mm

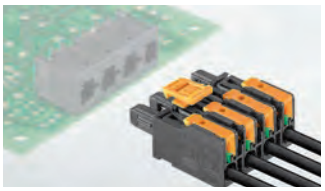


Webcode #11539

**MHS 7S**

Male connector with 90°, 180° and 270° outlet direction for wave and reflow processes.

- Male connector
- Pitch: 7.50 mm
- Number of poles: 2 –12
- IEC: 630 V / 26.8 A
- UL: 300 V / 18.5 A



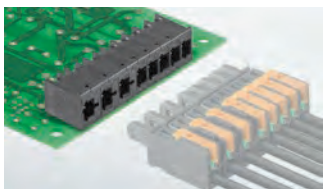
Webcode #11540

**MPS 7S**

Female plug with 180° outlet direction, SNAP IN connection system and optional self-locking top flange.

- SNAP IN connection system
- Pitch: 7.50 mm
- Number of poles: 2 –12
- IEC: 1000 V / 26.8 A / 0.5–4 mm²
- UL: 600 V / 18.5 A / AWG 20–12/7/9

## Pitch 7.50 mm + pitch 5.00 mm (Hybrid)

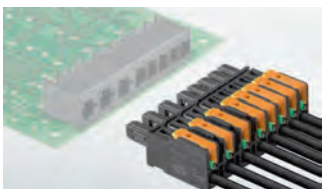


Webcode #11541

**MHS 7S/.. 5**

Hybrid male connector consisting of power and signal interfaces for wave and reflow processes.

- Male connector
- Pitch: 7.50 mm and 5.00 mm
- Number of poles: 2 –12
- IEC: 630 V / 26.8 A
- UL: 300 V / 18.5 A



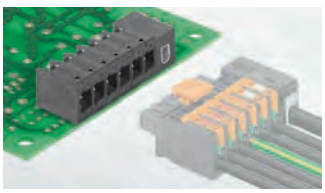
Webcode #11542

**MPS 7S/.. 5**

Hybrid female plug with 180° outlet direction, SNAP IN connection system and optional self-locking top flange.

- SNAP IN connection system
- Pitch: 7.50 mm and 5.00 mm
- Number of poles: 2 –12
- IEC: 1000 V / 26.8 A / 0.5–4 mm²
- UL: 600 V / 18.5 A / AWG 20–12/7/9"

## Pitch 5.00 mm + Single Pair Ethernet (Hybrid)

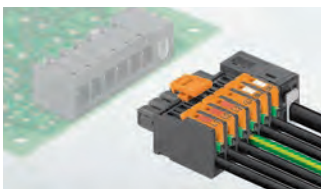


Webcode #11532

**MHS 5/.. D11**

Hybrid male connector with integrated Single Pair Ethernet (SPE) data connection for wave and reflow processes..

- Male header
- Pitch: 5.00 mm
- Number of poles: 2 –12
- IEC: 400 V / 26.8 A
- UL: 300 V / 18.5 A



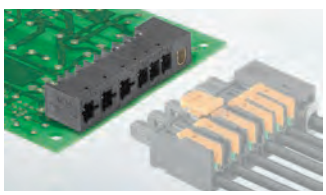
Webcode #11533

**MPS 5/.. D11**

Hybrid female plug with SNAP IN connection technology and field attachable Single Pair Ethernet data connector.

- SNAP IN connection
- Pitch: 5.00 mm
- Number of poles: 2 –12
- IEC: 400 V / 26.8 A / 0.5–4 mm²
- UL: 300 V / 18.5 A / AWG 20–12/7/9

## Pitch 7.50 mm + pitch 5.00 mm + Singe Pair Ethernet (Hybrid)

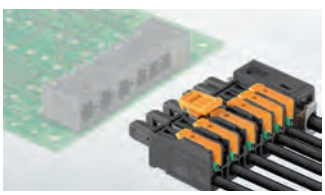


Webcode #11543

**MHS 7S/.. 5/.. D11**

Hybrid male connector consisting of power, signal and data interfaces for wave and reflow processes.

- Male connector
- Pitch: 7.50 mm and 5.00 mm
- Number of poles: 2 –12
- IEC: 630 V / 26.8 A
- UL: 300 V / 18.5 A



Webcode #11544

**MPS 7S/.. 5/.. D11**

Hybrid female plug with SNAP IN connection system and field-terminable Single Pair Ethernet data connector.

- SNAP IN connection system
- Pitch: 7.50 mm and 5.00 mm
- Number of poles: 2 –12
- IEC: 1000 V / 26.8 A / 0.5–4 mm²
- UL: 600 V / 18.5 A / AWG 20–12/7/9

# OMNIMATE® Data – Single Pair Ethernet connector

## SPE Connector, IP20

Webcode #11523

**IE-PCB-SP0-P-90V-THR**

Angled (90°) Single-Pair PCB male header for IP20

- Reflow-soldering (THR)
- Robust housing with metal snap-in mechanism
- Shielded and reenforced contacts (PdNi)
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- Packaging in ToR

Webcode #11550

**IE-PCB-SP0-P-90V-THR-YG/YG**

Angled (90°) Single-Pair PCB male header for IP20 incl. LED

- Reflow-soldering (THR)
- Robust housing with metal snap-in mechanism
- Shielded and reenforced contacts (PdNi)
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- Packaging in ToR

Webcode #11551

**IE-PCB-SP0-P-180V-THR**

Straight (180°) Single-Pair PCB male header for IP20

- Reflow-soldering (THR)
- Robust housing with metal snap-in mechanism
- Shielded and reenforced contacts (PdNi)
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- Packaging in ToR

Webcode #11552

**IE-S1DS2VE00..T0..**

Overmoulded single-pair patch cable for IP20

- Pre-assembled patch cables
- Industrial design metal snap-in locking hook
- Shielded and reenforced contacts
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- Packaging in bag

## SPE Connector, IP20

Webcode #11545

**IE-PS-SP0-S-FH-180**

Single-Pair IDC Plug for IP20

- Field attachable IDC plug
- Industry standard plug with metal Snap-in hooks locking
- Shielded and reenforced contacts
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750

## SPE Connector, IP67

Webcode #11546

**IE-PCB-SPM..**

Straight (180°) and angled (90°) Single-Pair PCB connector for IP67

- M8 Connector
- Reflow-soldering (THR) and SMT
- Front and rear wll mounting possible
- Performance Category: up to 1Gbit/s
- Packaging in ToR

Webcode #11546

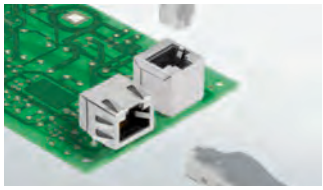
**IE-S1DS2VE00..TM..**

Overmoulded single-pair patch cable for IP67

- M8 Connector
- Inverse M8 System possible (PoDL coding)
- Performance Category: up to 1Gbit/s
- Packaging in bag

# OMNIMATE® Data – PCB jacks and plug-in connectors

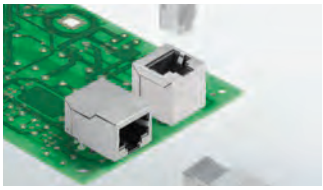
## PCB modular jack



Webcode #11413

**RJ45 solder connection for (THT)**
PCB jack for wave soldering process

- Outlet direction: 90° and 180°
- Catch mechanism: up and down
- Performance Category: up to Cat 6
- Plugging cycles: 750
- With / without LEDs



Webcode #11414

**RJ45 solder connection (THR)**
PCB jack for reflow and wave soldering process

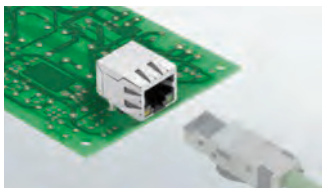
- Outlet direction: 90° and 180°
- Catch mechanism: up and down
- Performance Category: up to Cat 6
- Plugging cycles: 750
- With / without LEDs

Webcode #11415

**RJ45 solder connection for (SMT)**
PCB jack for reflow soldering process

- Outlet direction: 90° and 180°
- Catch mechanism: up and down
- Performance Category: up to Cat 5
- Plugging cycles: 750
- With / without LEDs

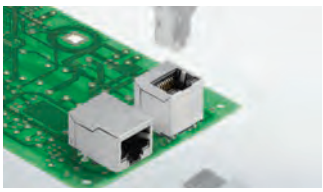
## RJ45 transformer jacks



Webcode #11416

**RJ45 solder connection for (THT)**
PCB jack for wave soldering process

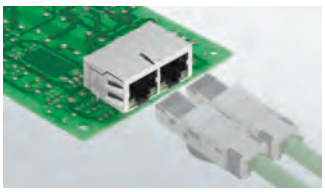
- Integrated magnetics
- Outlet direction: 90°
- Catch mechanism: up and down
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750



Webcode #11417

**RJ45 solder connection (THR)**
PCB jack for reflow and wave soldering process

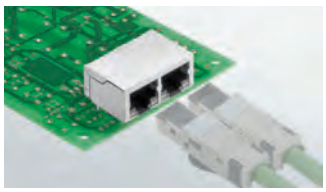
- Integrated magnetics
- Outlet direction: 90° and 180°
- Catch mechanism: up and down
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- With / without LEDs



Webcode #11418

**RJ45 solder connection (THT) multiport**
PCB jack for wave soldering process

- Integrated magnetics
- Outlet direction: 90°
- Catch mechanism: up and down
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- With / without LEDs



Webcode #11419

**RJ45 solder connection (THR) multiport**
PCB jack for reflow and wave soldering process

- Integrated magnetics
- Outlet direction: 90°
- Catch mechanism: up and down
- Performance Category: up to 1Gbit/s
- Plugging cycles: 750
- With / without LEDs

## Plug-in connectors

Webcode #11312

**RJ45 connector „steadytec"**
Tool-free and field-attachable plug for Industrial Ethernet

- IDC connection, 4-8-core
- Outlet direction: 180°
- Category: Cat.5 and Cat.6A
- AWG 26...AWG 22 / 0.48...0.76 mm²

## Patch cable

Webcode #11313

**RJ45 patch cable**
Freely configurable RJ45 cable in a wide range of colours

- Protected latching hook, 8-core
- Outlet direction: 90°, 180° and 270°
- Category: Cat.6A

## D-SUB connectors

Webcode #11528

**High-Density D-SUB solder connection for (THT)**
PCB connectors for wave soldering process

- Outlet direction: 90°
- Gender: femal, male
- Side termination: threaded nut
- Packed in tray

Webcode #11462

**D-SUB solder connection for (THT)**
PCB connectors for wave soldering process

- Outlet direction: 90° and 180°
- Gender: femal, male
- Side termination: hole, nut, bold
- Packed in tray

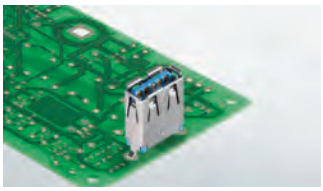
## OMNIMATE® Data – PCB jacks and plug-in connectors

### USB jacks

Webcode #11420

**USB 3.0/2.0 solder connection (THT)**
PCB jack for wave soldering process

- Outlet direction: 90° and 180°
- Performance Category: up to 5 Gbit/s
- Plugging cycles: ≥1.500
- Packed in tray



Webcode #11421

**USB 3.0 solder connection (THR)**
PCB jack for reflow and wave soldering process

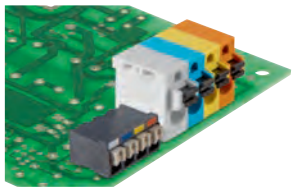
- Outlet direction: 180°
- Performance Category: up to 5 Gbit/s
- Plugging cycles: ≥1.500
- Packed in tray or ToR

Webcode #11422

**USB 2.0 solder connection for (SMT)**
PCB jack for reflow soldering process (SMT)

- Outlet direction: 90°
- Performance Category: up to 5 Gbit/s
- Plugging cycles: ≥1.500
- Packed in ToR

### Ethernet terminal



Webcode #11527

**LSF-SMT and LMF**
PCB terminal for Ethernet-compliant data transmssion e.g. for PROFINET (up to 100Mbps)

- PUSH IN spring connection
- Pitch: 3.50, 3.81 and 5.08 mm
- Number of poles: 4
- For all IIoT devices

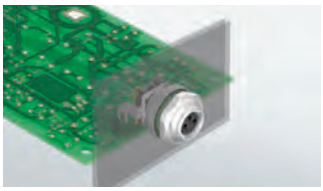
## OMNIMATE® Data – M8 and M12 PCB jacks

### M8

Webcode #11364

**M8 Dome (individual part)**
PCB circular connector for automatic assembly and M8 threads.

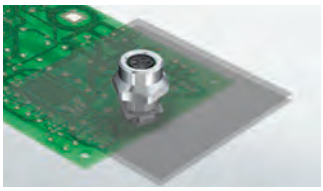
- Number of poles: 3, 4, 8
- Female and male contact
- SMT, THR
- Shielded and unshielded



Webcode #11366

**M8 Front mounting**
PCB circular connector with M8 thread for front mounting.

- Number of poles: 3, 4, 8
- Female and male contact
- Outlet direction: 180°
- Shielded and unshielded



Webcode #11368

**M8 Rear panel mounting**
PCB circular connector with M8 thread for rear panel mounting.

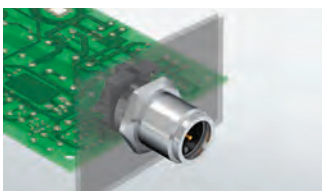
- Number of poles: 3, 4, 8
- Female and male contact
- Outlet direction: 90°, 180°
- Shielded and unshielded

### M12

Webcode #11352

**M12 Dome (individual part)**
PCB circular connector for automatic assembly and M12 threads.

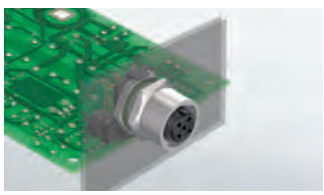
- Number of poles: 4, 5, 8
- Female and male contact
- SMT
- Shielded and unshielded
- Coding: A, B, D



Webcode #11354

**M12 Front mounting**
PCB circular connector with M12 thread for front mounting.

- Number of poles: 4, 5, 8
- Female and male contact
- Outlet direction: 90°, 180°
- Shielded and unshielded
- Coding: A, B, D, X



Webcode #11356

**M12 Front mounting**
PCB circular connector with M12 thread for front mounting.

- Number of poles: 4, 5, 8
- Female and male contact
- Outlet direction: 90°, 180°
- Shielded and unshielded
- Coding: A, B, D, X

### SAI plugs and cables

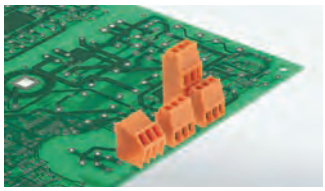
Webcode #11529

**SAI round plug-in connectors and cables**
High IP rated connectivity range of M5, M8, M12, M16 and M23

- Different codings like A, B and D
- Up to protection degree IP 69K
- For mechanically and chemically stressed applications

# OMNIMATE® Signal – PCB terminals

## Clamping yoke screw connection

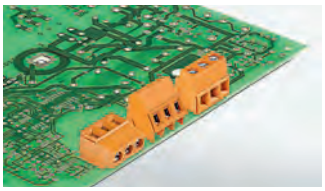


Webcode #01010

**LM 3.50 / LM1N / LM2N**

Small, compact PCB terminal with conductor outlet direction of 90° or 135°.

- Clamping yoke screw connection
- Pitch: 3.50 mm
- Number of poles: 2–12
- IEC: 320 V / 16 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–14

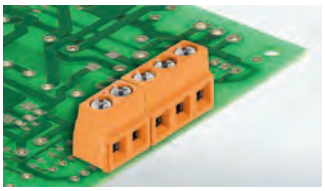


Webcode #01012

**LM 5.00/5.08**

Single-row PCB terminal with conductor outlet direction of 90°, 135° and 180°.

- Clamping yoke screw connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 630 V / 17.5 A / 0.2–2.5 mm²
- UL: 300 V / 15 A / AWG 24–14

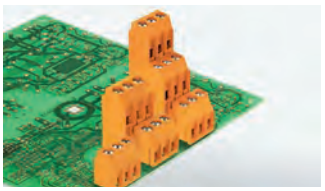


Webcode #01014

**LS 5.08**

Small, compact PCB terminal with conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 5.08 mm
- Number of poles: 2–12
- IEC: 630 V / 17.5 A / 0.08–1.5 mm²
- UL: 300 V / 15 A / AWG 28–14



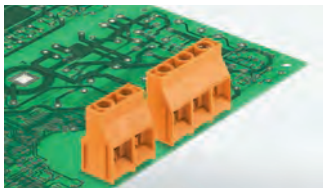
Webcode #01016

**LL 5.00/5.08**

Single-row PCB terminal with conductor outlet direction of 90° and 180°.

- Clamping yoke screw connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 500 V / 32.5 A / 0.5–6 mm²
- UL: 300 V / 20 A / AWG 28–12

## Clamping yoke screw connection



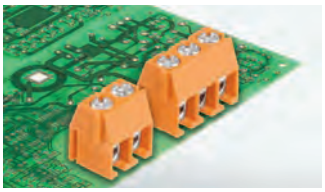
Webcode #01018

**LL 9.52**

Single-row PCB terminal with conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 9.52 mm
- Number of poles: 2–3
- IEC: 1,000 V / 32 A / 0.18–6 mm²
- UL: 300 V / 30 A / AWG 26–10

## Leaf - spring screw connection

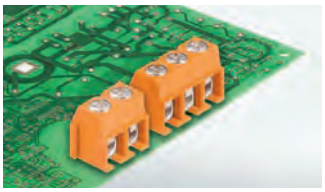


Webcode #01020

**PS 3.5**

Very small and compact PCB terminal with conductor outlet direction of 90°.

- Leaf-spring screw connection
- Pitch: 3.50 mm
- Number of poles: 2–12
- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16



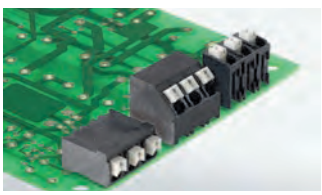
Webcode #01022

**PM 5.00/5.08**

PCB terminal with conductor inlet direction of 90°.

- Leaf-spring screw connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–12
- IEC: 600 V / 24 A / 0.13–2.5 mm²
- UL: 300 V / 15 A / AWG 26–14

## PUSH IN - spring connection

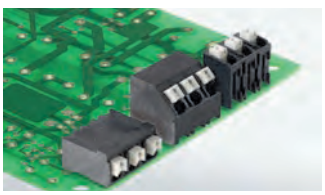


Webcode #01028

**LSF-SMT 3.5 / 3.81**

PCB terminal for fully automatic assembly for THR reflow soldering (SMT) and wave soldering.

- PUSH IN spring connection
- Pitch: 3.50 mm / 3.81 mm
- Number of poles: 2–24
- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

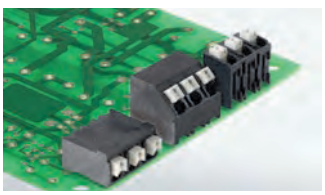


Webcode #01030

**LSF-SMT 5.00 / 5.08**

PCB terminal for fully automatic assembly for THR reflow soldering (SMT) and wave soldering.

- PUSH IN spring connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–8
- IEC: 500 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16



Webcode #01032

**LSF-SMT 7.50 / 7.62**

PCB terminal for fully automatic assembly for THR reflow soldering (SMT) and wave soldering.

- PUSH IN spring connection
- Pitch: 7.50 mm / 7.62 mm
- Number of poles: 2–8
- IEC: 800 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

Webcode #01034

**LSF-SMD 3.5**

PCB terminal for fully automatic assembly for reflow soldering (SMT).

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 2–12
- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16

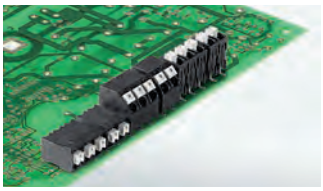
# OMNIMATE® Signal – PCB terminals

## PUSH IN - spring connection

Webcode #01036

**LSF-SMD 5.00**
PCB terminal for fully automatic assembly for reflow soldering (SMT).

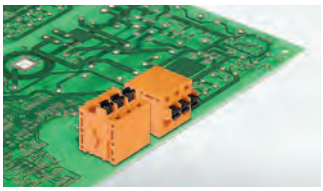
- PUSH IN spring connection
- Pitch: 5.00 mm
- Number of poles: 2–8
- IEC: 500 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16



Webcode #01038

**LSF-SMD 7.50**
PCB terminal for fully automatic assembly for reflow soldering (SMT).

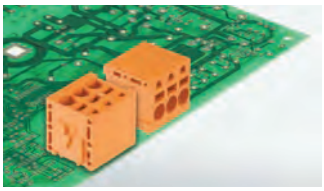
- PUSH IN spring connection
- Pitch: 7.50 mm
- Number of poles: 2–6
- IEC: 800 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 12 A / AWG 24–16



Webcode #01040

**LMF 5.00/5.08**
PCB terminal with pusher for opening the contact point and an integrated test point.

- PUSH IN spring connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 10 A / AWG 26–12

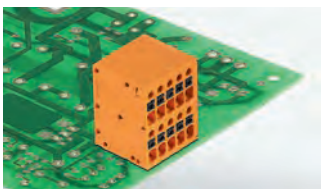


Webcode #01042

**LMFS 5.00/5.08**
PCB terminal without pusher; contact point can be opened using a screwdriver and integrated test point.

- PUSH IN spring connection
- Pitch: 5.00 mm / 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 10 A / AWG 26–12

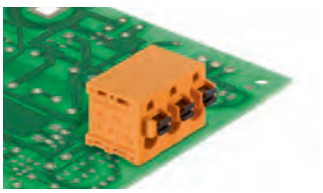
## PUSH IN - spring connection



Webcode #01026

**LS2HF 3.50**
Double-storey PCB terminal for wave soldering processes, with conductor insertion and slider operation from the same direction (TOP).

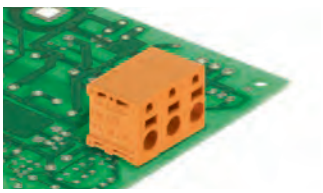
- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 4–24
- IEC: 400 V / 10 A / 0.14–1.5 mm²
- UL: 150 V / 12.5 A / AWG 26–16



Webcode #11514

**LMF 7.50**
PCB terminal with pusher for opening the contact point and an integrated test point.

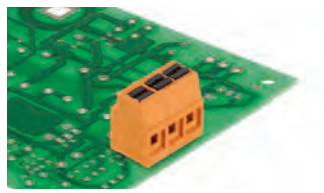
- PUSH IN spring connection
- Pitch: 7.50 mm
- Number of poles: 2–24
- IEC: 1000 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 20 A / AWG 26–12



Webcode #11515

**LMFS 7.50**
PCB terminal without pusher; contact point can be opened using a screwdriver and integrated test point.

- PUSH IN spring connection
- Pitch: 7.50 mm
- Number of poles: 2–24
- IEC: 1000 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 20 A / AWG 26–12

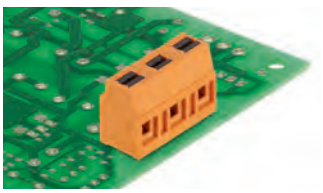


Webcode #11547

**LMFV 5.00/90**
PCB terminal with pusher, identical to the tried-and-tested LM 5.00 with clamping yoke connection

- PUSH IN spring connection
- Pitch 5.00 mm
- Number of poles 2-24
- IEC: 630 V / 17.5 A / 0.2 - 2.5 mm²
- UL: 300 V / 15 A / AWG 24 - AWG 14

## PUSH IN - spring connection

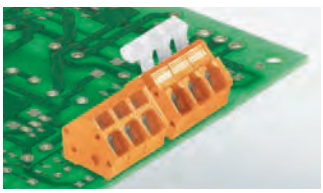


Webcode #11548

**LMFV 7.50/90**
PCB terminal with pusher

- PUSH IN spring connection
- Pitch 7.50 mm
- Number of poles 2-24
- IEC: 630 V / 17.5 A / 0.2 - 2.5 mm²
- UL: 300 V / 15 A / AWG 24 - AWG 14

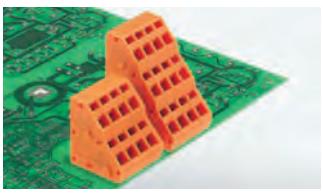
## Tension clamp connection



Webcode #11448

**LMZF**
Single-row PCB terminal with maintenance-free tension clamp connection and with conductor outlet direction of 135°.

- Tension clamp connection
- Pitch: 5, 7 & 10 mm
- Number of poles: 2–24
- IEC: 630 V/24 A / 0.13 – 2.5 mm²
- UL: 300 V/15 A / AWG 26-AWG 14



Webcode #11447

**LM2NZF & LM3RZF**
Multi-level PCB terminal with conductor outlet direction of 135°.

- Tension clamp connection
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 630 V/24 A / 0.13 – 2.5 mm²
- UL: 300 V/15 A / AWG 26-AWG 14

## OMNIMATE® Board-to-Board connectors

### Pitch 1.27 mm

Webcode #11516

**FMH1**
Male header with stack hight 1.75 mm

- Reflow-soldering (SMT)
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2,8 A (20°C, 12 pole)
- UL: 150 V / 1.7 A (12 pole)

Webcode #11517

**FMH3**
Male header with stack hight 3.25 mm

- Reflow-soldering (SMT)
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2.8 A (20°C, 12 pole)
- UL: 150 V / 1.7 A (12 pole)

Webcode #11518

**FMH**
Male header, angled

- Reflow-soldering (SMT)
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2.8 A (20°C, 12 pole)
- UL: 150 V / 1.7 A (12 pole)

Webcode #11549

**FC**
- Assembled cable

- Different cable types and lengths
- Pitch: 1,27 mm / 0,635 mm Ribbon Cable
- 12 - 80 poles
- IEC: 0,5 A
- Cross section: AWG 30/7
- UL 758 flammability rating: VW1

### Pitch 1.27 mm

Webcode #11519

**FFH6**
Female header with stack hight 6.25 mm

- Reflow-soldering (SMT)
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2.8 A (20°C, 12 pole)
- UL: 150 V / 1.7 A (12 pole)

Webcode #11520

**FFH9**
Female header with stack hight 9.05 mm

- Reflow-soldering (SMT)
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2.8 A (20°C, 12 pole)
- UL: 150 V / 1.7 A (12 pole)

Webcode #11521

**FFH**
Female header, angled

- Reflow-soldering (SMT)
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2.8 A (20°C, 12 pole)
- UL: 150 V / 1.7 A (12 pole)

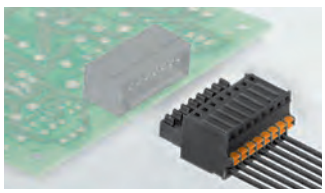
Webcode #11522

**FFP**
Female plug

- IDC-Connection
- Pitch: 1.27 mm
- Number of poles: 12–80
- Clear. and creepage distance: min. 0.4 mm
- IEC: 2.8 A (20°C, 12 pole)
- UL: 150 V / 1.0 A (12 pole) / AWG 30

## OMNIMATE® Signal – PCB connectors

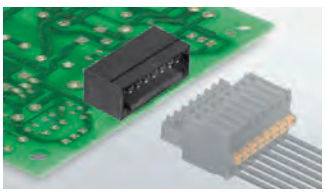
### Pitch 2.50 mm



Webcode #11323

**BLF 2.50**
Female plug for conductor connection with PUSH IN spring connection.

- PUSH IN spring connection
- Pitch: 2.50 mm
- Number of poles: 2–12
- IEC: 320 V / 6 A / 0.08 – 0.5 mm²
- UL: 150 V / 5 A / AWG 28 - 20

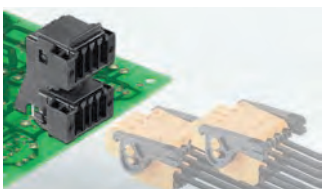


Webcode #11324

**SL 2.50**
Male header for wave soldering methods for 2.50 mm pitch.

- Male header
- Pitch: 2.50 mm
- Number of poles: 2–12
- IEC: 320 V / 6 A
- UL: 320 V / 6 A

### Pitch 3.50 mm double - row design



Webcode #01060

**S2C 3.50**
High-temperature-resistant, double-row male header for reflow and wave soldering methods.

- Male header
- Pitch: 3.50 mm
- Number of poles: 4–36
- IEC: 200 V / 13.4 A
- UL: 150 V / 10 A

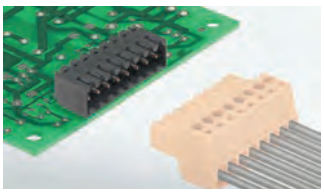
Webcode #01058

**B2CF 3.50**
Compact double-row female plug with maximum connection density within an extremely small space.

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 4–46
- IEC: 320 V / 13.4 A / 0.14–1.5 mm²
- UL: 300 V / 9.5 A / AWG 26–16

# OMNIMATE® Signal – PCB connectors

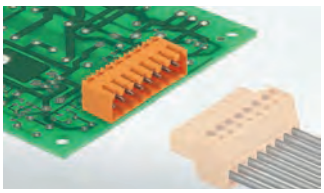
## Pitch 3.50 mm



Webcode #01068

**SL-SMT 3.50**
High-temperature-resistant male header for reflow and wave soldering methods.

- Male header
- Pitch: 3.50 mm
- Number of poles: 2–24
- IEC: 320 V / 15 A
- UL: 300 V / 10 A



Webcode #01072

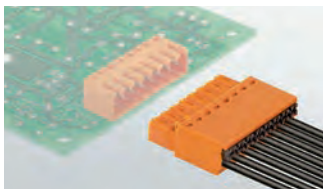
**SL 3.50**
Male header for wave soldering methods.

- Male header
- Pitch: 3.50 mm
- Number of poles: 2–24
- IEC: 320 V / 17 A
- UL: 300 V / 10 A

Webcode #01066

**BL 3.50**
Female plug for conductor connection with clamping yoke screw connection.

- Clamping yoke screw connection
- Pitch: 3.50 mm
- Number of poles: 2–24
- IEC: 320 V / 17 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–14

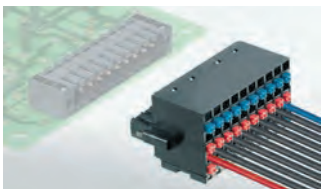


Webcode #11410

**BLF 3.5**
Female plug with PUSH IN spring connection

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 2–24
- IEC: 320 V / 14.5 A / 0.2 – 1.5 mm²
- UL: 300 V / 9.5 A / AWG 28–16

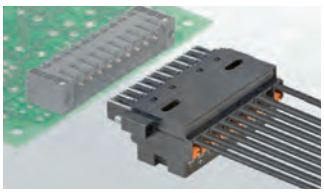
## Pitch 3.50 mm



Webcode #01064

**BL-I/O 3.5**
Extremely compact female plug in one or three-row design and with an integrated LED display.

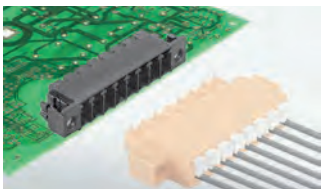
- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 10 & 30
- IEC: 200 V / 2.2 A / 0.2–1 mm²
- UL: 50 V / 5 A / AWG 24–16



Webcode #11445

**BL I/O CJC**
Compact female plug with integrated cold junction compensation.

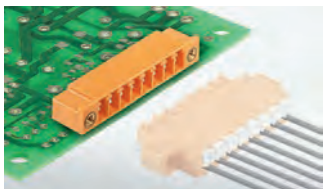
- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 10
- IEC: 50 -V / 2.2 A / 0.2 – 1.5 mm²
- UL: 50 V / 5 A / AWG 24 – 16



Webcode #01076

**SC-SMT 3.81**
High-temperature-resistant male header with a very low profile for reflow and wave soldering methods.

- Male header
- Pitch: 3.81 mm
- Number of poles: 2–16
- IEC: 320 V / 17.5 A
- UL: 300 V / 10 A



Webcode #01080

**SC 3.81**
Male header with a very low profile for wave soldering methods.

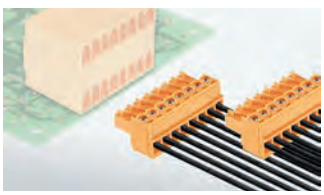
- Male header
- Pitch: 3.81 mm
- Number of poles: 2–20
- IEC: 320 V / 17.5 A
- UL: 300 V / 10 A

## Pitch 3.81 mm

Webcode #11316

**SCZ 3.81**
Compact male plug for conductor connection with clamping yoke screw connection.

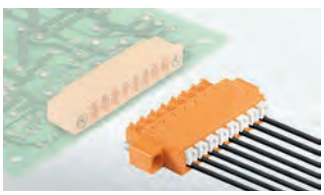
- Clamping yoke screw connection
- Pitch: 3.81 mm
- Number of poles: 2–12
- IEC: 320 V / 17.5 A / 0.14–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16



Webcode #01074

**BCZ 3.81**
Compact female plug for conductor connection with clamping yoke screw connection.

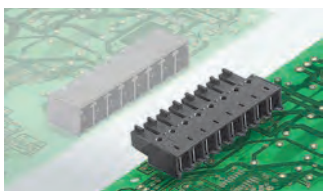
- Clamping yoke screw connection
- Pitch: 3.81 mm
- Number of poles: 2–20
- IEC: 320 V / 17.5 A / 0.14–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16



Webcode #01078

**BCF 3.81**
Female plug with very low profile for conductor connection with PUSH IN spring connection.

- PUSH IN spring connection
- Pitch: 3.81 mm
- Number of poles: 2–18
- IEC: 320 V / 17.5 A / 0.2–1.5 mm²
- UL: 300 V / 10 A / AWG 28–16



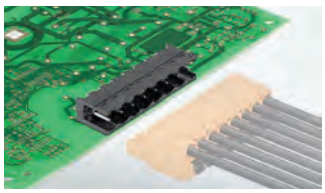
Webcode #01082

**BCL-SMT 3.81**
High-temperature-resistant female header with a very low profile for reflow soldering methods.

- Female header
- Pitch: 3.81 mm
- Number of poles: 2–12
- IEC: 320 V / 17.5 A
- UL: 300 V / 10 A

# OMNIMATE® Signal – PCB connectors

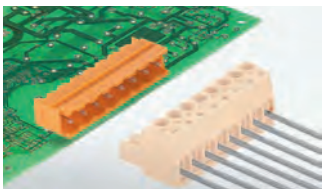
## Pitch 5.00 mm



Webcode #11444

**SL-SMT 5.00HC**
High-temperature-resistant, bent pin header, optimized for automatic assembly and reflow and wave soldering.

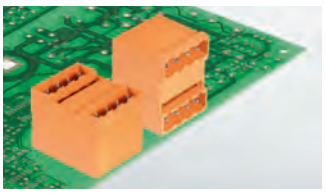
- Male header
- Pitch: 5.00 mm
- Number of poles: 2–24
- IEC: 400 V / 27.5 A
- UL: 300 V / 18.5 A



Webcode #01095

**SL 5.00**
Pin headers with solder pin length optimized for wave flow soldering.

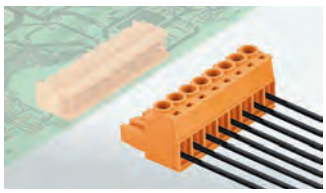
- Male header
- Pitch: 5.00 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A
- UL: 300 V / 18.5 A



Webcode #11461

**SLD 5.00**
2-tier male header with parallel pin arrangement with outlet direction of 90° & 180°, optimized for wave soldering methods.

- Male header
- Pitch:5.00 mm
- Number of poles: 4–48
- IEC: 400 V / 15 A
- UL: 300 V / 10 A



Webcode #01165

**BLZP 5.00HC**
High-current-female-plug for outlet direction of 90°, 180° or 270°.

- Clamping yoke screw connection
- Pitch: 5.00 mm
- Number of poles: 2–24
- IEC: 400 V / 23 A / 0.2–4 mm²
- UL: 300 V / 20 A / AWG 30–12

## Pitch 5.00 mm

Webcode #11442

**BLF 5.00HC**
Compact high-current-female-plug for outlet direction of 90°, 180° or 270°.

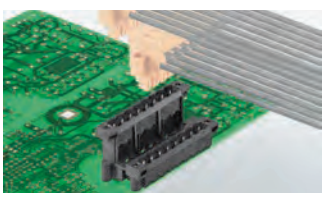
- PUSH IN spring connection
- Pitch: 5.00 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 18.5 A / AWG 26–12

## Pitch 5.08 mm

Webcode #01090

**SL-SMT 5.08HC**
Highly temperature-resistant angled male header optimised for automatic assembly and for reflow and wave soldering methods.

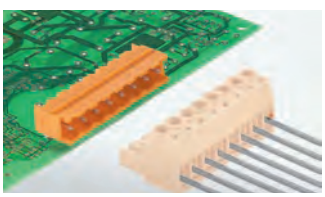
- Male header
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 27.5 A
- UL: 300 V / 18.5 A



Webcode #11441

**SLDV-THR 5.08**
High-temperature resistant, double level, laterally offset, male connector with flange or solder flange.

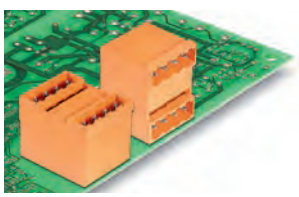
- Male header
- Pitch: 5.08 mm
- Number of poles: 4–48
- IEC: 400 V / 15 A
- UL: 300 V / 10 A



Webcode #01094

**SL 5.08HC**
Male headers in glass-fibre-reinforced plastic, optimised for wave soldering methods.

- Male header
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A
- UL: 300 V / 18.5 A



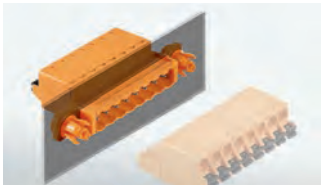
Webcode #11440

**SLD 5.08**
2-tier male header with parallel or laterally offset pin arrangement with with outlet direction of 90° & 180°, optimized for wave solvering methods.

- Male header, parallel or laterally offset
- Pitch: 5.08 mm
- Number of poles: 4–48
- IEC: 400 V / 15 A
- UL: 300 V / 10 A

# OMNIMATE® Signal – PCB connectors

## Pitch 5.08 mm



Webcode #01098

**SLF 5.08**

Male plugs with straight outlet direction provide space for labelling and can be coded.

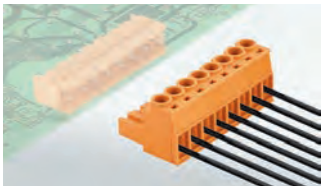
- PUSH IN spring connection
- Pitch: 5.08 mm
- Number of poles: 2–12
- IEC: 400 V / 25.9 A / 0.2–2.5 mm²
- UL: 300 V / 14 A / AWG 26–12

Webcode #01087

**SLS 5.08**

Male plug with clamping-yoke screw wire-connect system.

- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V/21.5 A / 0.2–2.5 mm²
- UL: 300 V/14 A / AWG 26-AWG 12

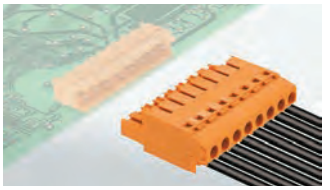


Webcode #01084

**BLZP 5.08HC**

High-current female plug for conductor connection with 90°, 180° to 225° and 270° outlet direction.

- Clamping yoke screw connection
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 23 A / 0.2–4 mm²
- UL: 300 V / 20 A / AWG 30–12



Webcode #01092

**BLT 5.08HC**

High-current female plug for conductor connection with a straight 180° outlet direction and space for labelling.

- TOP screw connection
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 27 A / 0.2–2.5 mm²
- UL: 300 V / 17 A / AWG 26–14

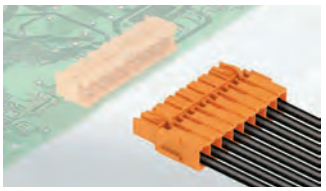
## Pitch 5.08 mm

Webcode #01088

**BLF 5.08HC**

Compact high-current female plug for conductor outlet directions of 90° to 180° and 270°.

- PUSH IN spring connection
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 24 A / 0.2–2.5 mm²
- UL: 300 V / 18.5 A / AWG 26–12

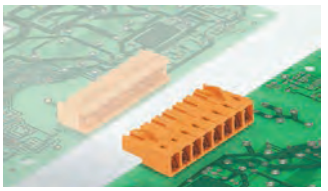


Webcode #01096

**BLC 5.08**

Female plug to allow for the pre-assembly of wiring harnesses in large quantities.

- Crimp connection system
- Pitch: 5.08 mm
- Number of poles: 2–16
- IEC: 400 V / 21 A
- UL: 300 V / 10 A / AWG 26–14



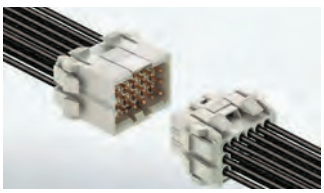
Webcode #01100

**BLL 5.08**

Female header for PCB assembly with 90° and 180° outlet direction and optimised solder pin length for wave soldering methods.

- Female header
- Pitch: 5.08 mm
- Number of poles: 2–24
- IEC: 400 V / 23 A
- UL: 300 V / 15 A

## Rectangular connector

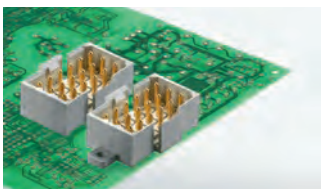


Webcode #11360

**RSV 1.6 C**

Rectangular connector for a high component density, for use as a free coupling or a PCB variant.

- Crimp connection system
- Pitch: 5.00 mm
- Number of poles: 4–36
- IEC: 630 V / 17 A
- UL: 600 V / 10 A / AWG 26–12



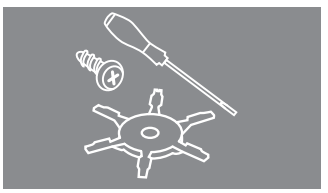
Webcode #01106

**RSV 1.6 L**

Rectangular connector with solder pin and solder jack contacts for PCB applications.

- Solder pin contacts
- Pitch: 5.00 mm
- Number of poles: 4–36
- IEC: 500 V / 14 A
- UL: 300 V / 10 A

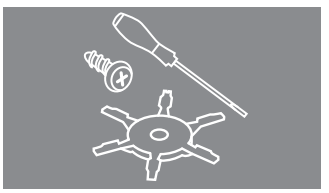
## Accessories



Webcode #11439

**Accessories**

For signal PCB terminals



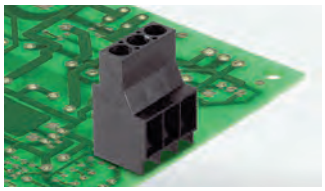
Webcode #11438

**Accessories**

For signal PCB connectors

# OMNIMATE® Power – PCB terminals

## Clamping yoke screw connection

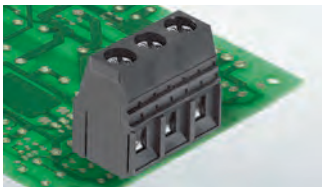


Webcode #01044

**LL 6.35**

High-performance PCB terminal with offset solder pins and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 6.35 mm
- Number of poles: 2–12
- IEC: 1.000 V / 32 A / 0.18–6 mm²
- UL: 600 V / 30 A / AWG 26–10

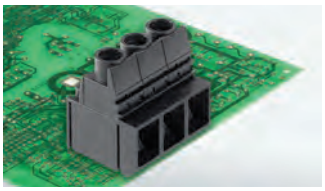


Webcode #01048

**LU 10.16**

High-performance PCB terminal with offset solder pins and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–10
- IEC: 1.000 V / 76 A / 0.5–16 mm²
- UL: 300 V / 65 A / AWG 26–6

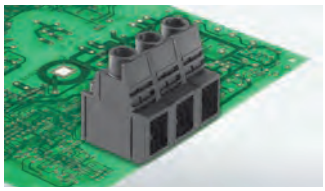


Webcode #01050

**LUP 10.16 V with test point**

High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–9
- IEC: 1.000 V / 76 A / 0.5–16 mm²
- UL: 600 V / 51 A / AWG 26–6



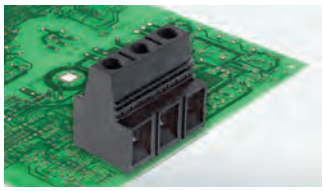
Webcode #01052

**LUP 12.70 with test point**

High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 12.70 mm
- Number of poles: 2–9
- IEC: 1.000 V / 76 A / 0.5–16 mm²
- UL: 600 V / 58 A / AWG 26–6

## Clamping yoke screw connection

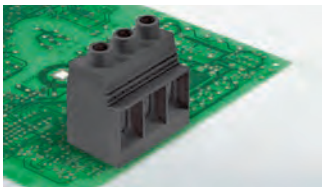


Webcode #01054

**LX 15.00 with test point**

High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 15.00 mm
- Number of poles: 1–9
- IEC: 1.000 V / 101 A / 1.5–25 mm²
- UL: 600 V / 85 A / AWG 16–4



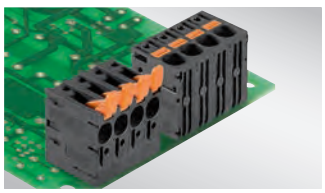
Webcode #01056

**LXXX 15.00 with test point**

High-performance PCB terminal with integrated test point and conductor outlet direction of 90°.

- Clamping yoke screw connection
- Pitch: 15.00 mm
- Number of poles: 1–9
- IEC: 1.000 V / 150 A / 0.5–50 mm²
- UL: 600 V / 127 A / AWG 20–1

## PUSH IN spring connection

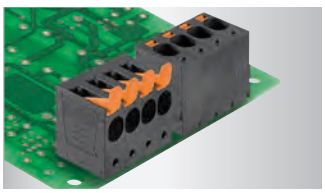


Webcode #11408

**LLF / LLFS 7.5**

Highly reliable PCB terminals with integrated test point and conductor outlet direction of 90° and 180°.

- PUSH IN spring connection
- Fast wiring without tool (LLF 7.50)
- Pitch: 7.5 mm
- Number of poles: 1–12
- IEC: 1.000 V / 41 A / 0.5–6 mm²
- UL: 600 V / 35 A /AWG 24–8

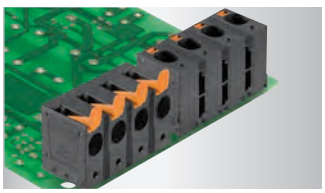


Webcode #01046

**LUF / LUFS 10**

Highly reliable PCB terminals with integrated test point and conductor outlet direction of 90° and 180°.

- PUSH IN spring connection
- Fast wiring without tool (LUF10)
- Pitch: 10.00 mm
- Number of poles: 1–12
- IEC: 1.000 V / 76 A / 0.5–16 mm²
- UL: 600 V / 61 A / AWG 18–6



Webcode #11409

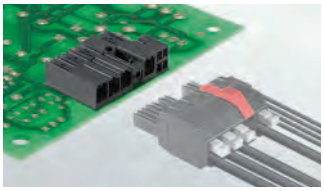
**LUF / LUFS 15**

Highly reliable PCB terminals with integrated test point and conductor outlet direction of 90° and 180°.

- PUSH IN spring connection
- Fast wiring without tool (LUF 15)
- Pitch: 15.00 mm
- Number of poles: 2–8
- IEC: 1.000 V / 76 A / 0.5–16 mm²
- UL: 1.000 V / 57 A / AWG 18–6

# OMNIMATE® Power – PCB connectors

## OMNIMATE® Power Hybrid

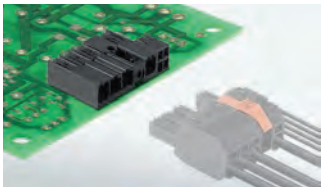


Webcode #11437

**SV-SMT 7.62 hybrid**

High-temperature-resistant hybrid male header with energy and signal contacts.

- Male header
- Pitch: 7.62 mm
- Pole count: 2/4–5/8
- IEC: 1.000 V / 41 A
- UL: 300 V / 35 A

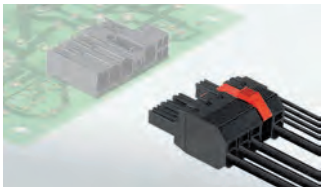


Webcode #01112

**SV 7.62 hybrid**

Hybrid male header with energy and signal contacts.

- Male header
- Pitch: 7.62 mm
- Pole count: 2/4–5/8
- IEC: 1.000 V / 41 A
- UL: 300 V / 35 A

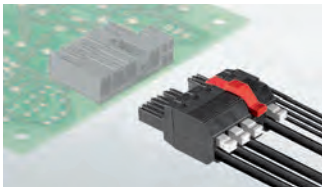


Webcode #11465

**BVF 7.62HP hybrid**

Hybrid female plug - the perfect 2-in-1 solution for the simultaneous combination of energy and signals. Available with plug-in EMC shield support on request.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 2/4–5/8
- IEC: 1.000 V / 38 A / 0.5–10 mm²
- UL: 600 V / 35 A / AWG 24–8



Webcode #11466

**BVFL 7.62 hybrid**

Hybrid female plug with Wire-Ready PUSH IN the perfect 2-in-1 solution for the simultaneous combination of energy and signals.

- Wire-Ready PUSH-IN spring connection
- Pitch: 7.62 mm
- Pole count: 2 / 4–5 / 8
- IEC: 1.000 V / 38 A / 0.5–6 mm
- UL: 600 V / 35 A / AWG 24–8

## OMNIMATE® Power Hybrid

Webcode #11467

**BVF 7.62 hybrid with pluggable shield connection**

Hybrid female plug with pluggable shield connection to printed circuit board.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4–4
- IEC: 1.000 V / 38 A / 0.5–10 mm
- UL: 600 V / 35 A / AWG 24–8

Webcode #11468

**BVLF 7.62 hybrid with pluggable shield connection**

Hybrid female plug with Wire-Ready PUSH IN and pluggable shield connection to printed circuit board.

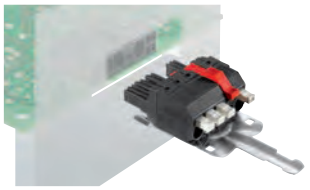
- Wire-Ready PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4–4
- IEC: 1.000 V / 38 A / 0.5–6 mm
- UL: 600 V / 35 A / AWG 24–8

Webcode #11481

**BVF 7.62 hybrid with pluggable shield connection**

Hybrid female plug with pluggable shield connection to the device metall housing.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4–4
- IEC: 1.000 V / 38 A / 0.5–10 mm
- UL: 600 V / 35 A / AWG 24–8



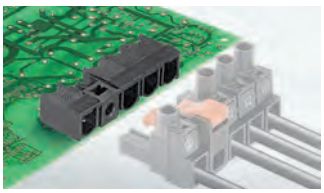
Webcode #11480

**BVFL 7.62 hybrid with pluggable shield connection**

Hybrid female plug with Wire-Ready PUSH-IN and pluggable shield connection to the device metall housing.

- Wire-Ready PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4–4
- IEC: 1.000 V / 38 A / 0.5–6 mm
- UL: 600 V / 35 A / AWG 24–8

## OMNIMATE® Power IT

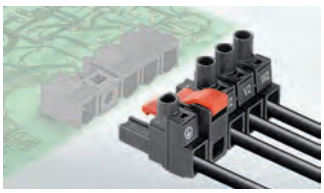


Webcode #01116

**SL 7.62IT**

Male header with optional solder flange attachment and with leading contact for IT networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 630 V / 29 A
- UL: 300 V / 20 A

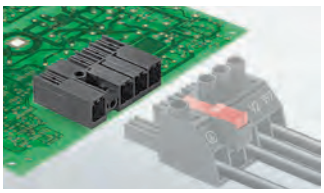


Webcode #01114

**BLZ 7.62IT**

Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 1,000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 40.5 A / AWG 24–8

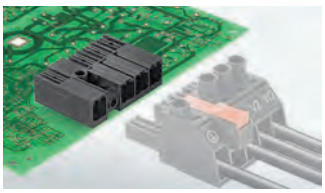


Webcode #11469

**SV-SMT 7.62IT**

High temperature-resistant male haeder with leading contact for IT-networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1.000 V / 41 A
- UL: 300 V / 40.5 A



Webcode #01120

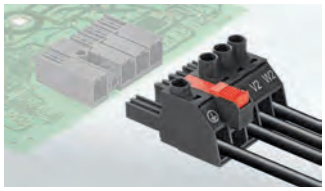
**SV 7.62IT**

Male header with optional solder flange attachment and with leading contact for IT networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–4
- IEC: 1.000 V / 41 A
- UL: 300 V / 40.5 A

# OMNIMATE® Power – PCB connectors

## OMNIMATE® Power IT

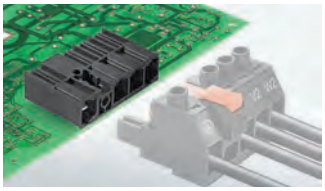


Webcode #01118

**BVZ 7.62IT**

Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–4
- IEC: 1,000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 40.5 A / AWG 24–8

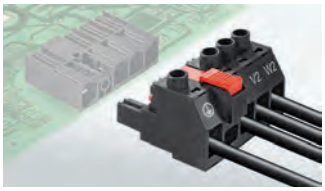


Webcode #01124

**SU 10.16IT**

Male header with optional solder flange attachment and with leading contact for computer networks.

- Male header
- Pitch: 10.16 mm
- Number of poles: 2–4
- IEC: 1,000 V / 76 A
- UL: 300 V / 60 A



Webcode #01122

**BUZ 10.16IT**

Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–4
- IEC: 1,000 V / 78 A / 0.2–16 mm²
- UL: 300 V / 60 A / AWG 22–4

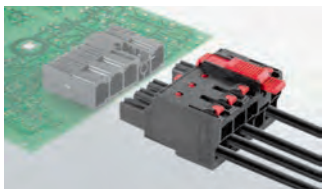
Webcode #11479

**BUZ 10.16IT SH**

Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange and pluggable shield connection to the device metall housing.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 3–4
- IEC: 1,000 V / 76 A / 2.5–16 mm²
- UL: 600 V / 55 A / AWG 22–4

## OMNIMATE® Power IT



Webcode #11407

**BUF 10.16IT**

Female plug with 180° outlet direction for IT networks with self-locking centre flange.

- PUSH IN spring connection
- Pitch: 10.16 mm
- Number of poles: 2–5
- IEC: 1,000 V / 76 A / 2,5 – 16 mm²
- UL: 600 V / 55 A / AWG 12 – AWG 4

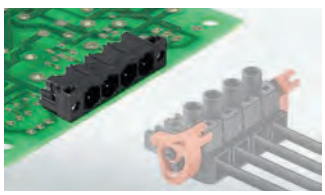
Webcode #11471

**BUF 10.16IT SH**

Female plug with 180° outlet direction and touch safety for IT networks with self-locking centre flange and pluggable shield connection to the device metall housing.

- PUSH IN spring connection
- Pitch: 10.16 mm
- Number of poles: 3–4
- IEC: 1,000 V / 76 A / 2.5–16 mm²
- UL: 600 V / 55 A / AWG 12–4

## OMNIMATE® Power HP pitch 7.62 mm



Webcode #01130

**SL 7.62HP**

Male header with single compartment mating profile and touch protection.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 630 V / 29 A
- UL: 300 V / 20 A

Webcode #01134

**SLF 7.62HP**

Male plug with single compartment mating profile with 180° outlet direction as touch-safe solution for the reverse voltage in HP networks.

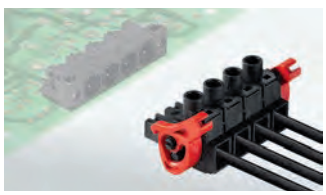
- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1,000 V / 24 A / 0.5–2.5 mm²
- UL: 600 V / 20 A / AWG 20–12

Webcode #11472

**SLF 7.62HP SH**

Male plug with single compartment mating profile with 180° outlet direction as touch-safe solution for the reverse voltage in HP networks, with pluggable shield connection to the device metall housing.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 4
- IEC: 1,000 V / 24 A / 0.5–2,5 mm²
- UL: 600 V / 20 A / AWG 20–12



Webcode #01126

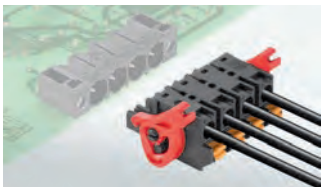
**BLZ 7.62HP**

Female plug with single compartment mating profile with 180° outlet direction and touch protection for HP networks.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 630 V / 29 A / 0.2–4 mm²
- UL: 600 V / 20 A / AWG 20–12

# OMNIMATE® Power – PCB connectors

## OMNIMATE® Power HP pitch 7.62 mm

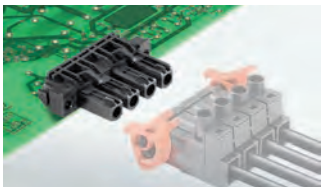


Webcode #01128

**BLF 7.62HP**

Female plug with single compartment mating profile with 180° outlet direction and touch protection for HP networks.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 1,000 V / 24 A / 0.5–2.5 mm²
- UL: 600 V / 20 A / AWG 20–12



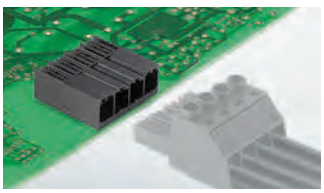
Webcode #01136

**BLL 7.62HP**

Touch-safe female header with single compartment mating profile for the PCB with one-hand safety interlock.

- Female header
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 630 V / 24 A
- UL: 300 V / 20 A

## OMNIMATE® Power HP pitch 7.62 mm

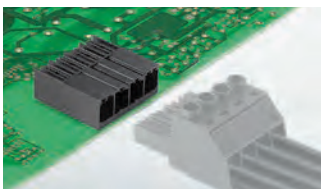


Webcode #11473

**SV-SMT 7.62HP**

High temperature-resistant single-row male header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1,000 V / 41 A
- UL: 300 V / 40.5 A

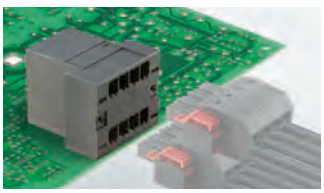


Webcode #01142

**SV 7.62HP**

High-performance single-row male header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 1,000 V / 41 A
- UL: 300 V / 40.5 A



Webcode#11474

**SVD 7.62HP**

Double-row high-current, high-performance pin headers for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Male header
- Pitch: 7.62 mm
- Number of poles: 4–12
- IEC: 1,000 V / 47 A
- UL: 300 V / 30 A

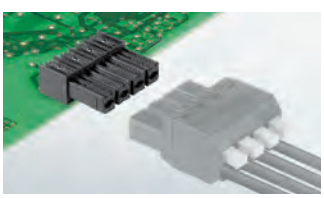
Webcode #11475

**SVF 7.62HP**

High-performance male plug with 180° outlet direction as a three-flange version for the housing feedthrough for TNC(S) networks.

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 1,000 V / 41 A / 0.5–10 mm²
- UL: 600 V / 35 A / AWG 24–10

## OMNIMATE® Power HP pitch 7.62 mm



Webcode #11476

**SVFL 7.62HP**

High-performance male plug with 180° outlet direction as a three-flange version for the housing feedthrough for TNC(S) networks.

- Wire-Ready PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–6
- IEC: 1,000 V / 41 A / 0.5–6 mm²
- UL: 600 V / 35 A / AWG 24–10

Webcode #01138

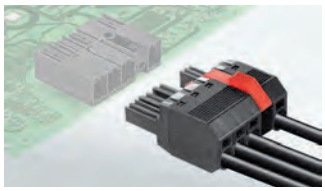
**BVZ 7.62HP**

High-performance female plug for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2–12
- IEC: 1,000 V / 41 A / 0.2–6 mm²
- UL: 600 V / 40.5 A / AWG 24–8

# OMNIMATE® Power – PCB connectors

## OMNIMATE® Power HP pitch 7.62 mm



Webcode #11477

**BVF 7.62HP**

High-performance female plug with 180° outlet direction as a touch-safe solution for the power output for TNC(S) networks.

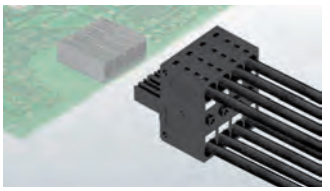
- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–7
- IEC: 1.000 V / 41 A / 0.5–10 mm²
- UL: 600 V / 35 A / AWG 24–8

Webcode #11478

**BVFL 7.62HP**

High-performance female plug with 180° outlet direction as a touch-safe solution for the power output for TNC(S) networks.

- Wire-Ready PUSH-IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2–5
- IEC: 1.000 V / 41 A / 0.5–6 mm²
- UL: 600 V / 35 A / AWG 24–8



Webcode #11512

**BVDF 7.62HP**

Bus connector with two connections per pole with the time-saving 10mm² PUSH IN connection system

- Female header
- Pitch: 7.62 mm
- Number of Poles: 2–8
- IEC: 600 V / 46 A / 0.5 - 10 mm²
- UL: 600 V / 35 A / AWG 24 – AWG 8

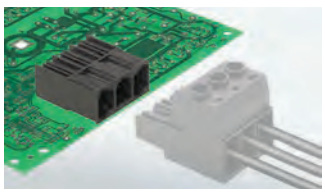
Webcode #01148

**BVL 7.62HP**

High-performance female header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Female header
- Pitch: 7.62 mm
- Number of poles: 2–7
- IEC: 1.000 V / 41 A
- UL: 300 V / 35 A

## OMNIMATE® Power HP pitch 10.16 mm

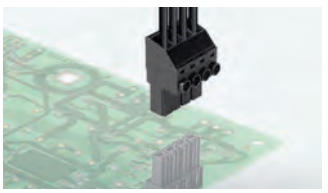


Webcode #01152

**SU 10.16HP**

High-performance single-row male header for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Male header
- Pitch: 10.16 mm
- Number of poles: 2–9
- IEC: 1.000 V / 76 A
- UL: 300 V / 60 A

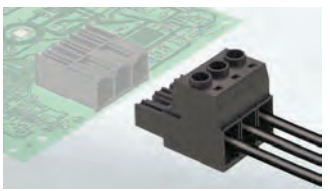


Webcode #01154

**SUZ 10.16HP**

High-performance male plug with 180° outlet direction and high-strength contact system for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–9
- IEC: 1.000 V / 78 A / 0.2–16 mm²
- UL: 600 V / 54 A / AWG 24–6

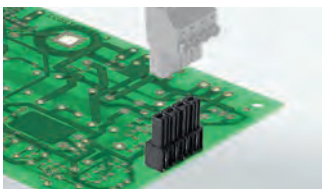


Webcode #01150

**BUZ 10.16HP**

High-performance female plug with 180° outlet direction for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2–9
- IEC: 1.000 V / 78 A / 0.2–16 mm²
- UL: 600 V / 60 A / AWG 22–4



Webcode #01156

**BUL 10.16HP**

High-performance female header with 180° outlet direction and high-strength contact system for TNC(S) networks.

- Female header
- Pitch: 10.16 mm
- Number of poles: 2–4
- IEC: 1.000 V / 76 A
- UL: 300 V / 57 A

## PUSH IN spring connection

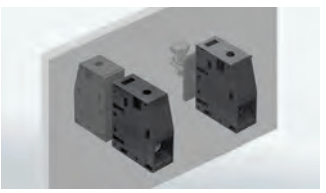
Webcode #01158

**PGK**

Device feedthrough terminal blocks with disc design and intuitive locking for a quick and compact solution.

- PUSH IN spring connection
- Connection cross-section: up to 4 mm²
- IEC: 500 V / 32 A / 0.5–4 mm²
- UL: 300 V / 30 A / AWG 24–10

## Clamping yoke screw connection



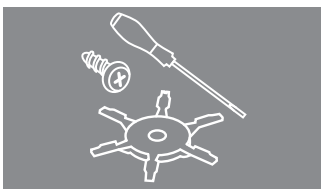
Webcode #01160

**WGK**

High-current feed-through terminals as a universal solution to guide currents of various scales through the device wall.

- Clamping yoke screw connection
- Connection cross-section: 6 to 95 mm²
- IEC: 1.000 V / 232 A / 0.5–95 mm²
- UL: 600 V / 230 A / AWG 24–4/0

## Accessories



Webcode #11463

**Accessories**

For Power feed-through terminals

# OMNIMATE® Power – PCB- connector cross connection

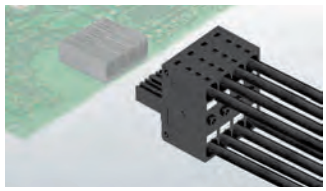
## OMNIMATE® Power bus and T-connector

Webcode #11513

**PB 160**

Modular current bar solution, for multi-axis servo amplifiers intermediate circuit and 24 V control voltage supply.

- Modular SNAP-IN bus system
- Tool less connection
- Number of poles: 2
- IEC: 1000 V / 160 A
- UL: 750 V DC / 160 A



Webcode #11512

**BVDF 7.62HP**

T-connector with two connections per pole with the time-saving 10 mm² PUSH IN connection system.

- Female header
- Pitch: 7.62 mm
- Number of Poles: 2–8
- IEC: 600 V / 46 A / 0.5 –10 mm²
- UL: 600 V / 35 A / AWG 24 – AWG 8

# OMNIMATE® Housings

## CH20M

Webcode #11334

**CH20M6**

The tailor-made solution for a wide application spectrum. Fits in any terminal strip.

- Housing width: 6.1 mm
- Connection levels on each side: 4
- Connectable conductors: 8
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: no

Webcode #11335

**CH20M12**

The "small" option amongst the "large" housing solutions for compact electronics applications.

- Housing width: 12.5 mm
- Connection levels on each side: 3
- Connectable conductors: 12
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: yes

Webcode #11336

**CH20M17**

Ideal housing solution for compact standard electronics applications.

- Housing width: 17.5 mm
- Connection levels on each side: 3
- Connectable conductors: 18
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: yes

Webcode #11337

**CH20M22**

Standard format with optimal width for most typical electronics applications.

- Housing width: 22.5 mm
- Connection levels on each side: 3
- Connectable conductors: 24
- Connection technology reflow-compatible: yes
- Circuit board capacity: 1
- Variable circuit board positions: yes

## CH20M

Webcode #11338

**CH20M45**

Extra-large size for electronics applications that require more space, such as compact controllers and power supplies.

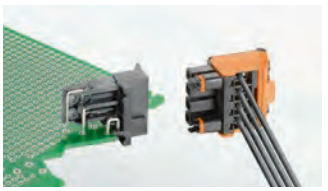
- Housing width: 45 mm
- Connection levels on each side: 3
- Connectable conductors: 48
- Connection technology reflow-compatible: yes
- Circuit board capacity: 2
- Variable circuit board positions: yes

Webcode #11339

**CH20M67**

XXL size for those electronics applications that require lots of space, such as compact controllers and power supplies.

- Housing width: 67.5 mm
- Connection levels on each side: 3
- Connectable conductors: 72
- Connection technology reflow-compatible: yes
- Circuit board capacity: 3
- Variable circuit board positions: yes

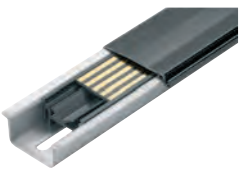


Webcode #11436

**Connection system CH20M**

PCB terminal or male header and plug-in connectors for the CH20M housing.

- PUSH IN spring connection
- Clamping yoke screw connection
- Protection against mismating of connections
- Pitch: 5.00 mm
- Number of poles 1–4
- IEC: 400 V / 10 A / 0.25–2.5 mm²
- UL: 300 V / 10 A / AWG 26-12



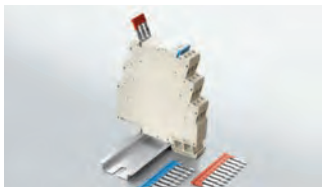
Webcode #11435

**SET CH20M BUS 250MM TS 35X15**

The universal mounting rail bus for the modular electronics housing system

- Universally usable for all housing widths
- Easy integration into the TS35 mounting rail
- Reflow - solderable BUS contacts

## MICROBOX



Webcode #11434

**Small enclosure with 6 screw and tension clamp connections**

- Clamping yoke screw connection for conductors up to 2.5 mm²
- Tension clamp connection for conductors up to 1.5 mm²
- Vibration-resistant contacts
- Vibration-free terminal rail mounting
- Enclosure wall clipped on securely

## TERMINALBOX

Webcode #11433

**Small housing with 4 to 6 connection, in screw-connection and tension-clamp versions**

- Versatile arrangements of circuit boards and transparent top plate for clear, permanent labelling
- Cover plates for sealing the enclosure
- Compatible with terminal rails TS32 and TS35

## Modular housings of profile form series RS

Webcode #11432

**Modular housings of profile form**

- PCB width 45 mm – 122 mm
- Variable heights
- Different installation variations
- Solid hoods
- Can be individually cut to length

# An example of the OMNIMATE® Power device connection method in a frequency converter application

Semiconductor technology for power electronics has progressed at a steady pace in the last few years enabling more complex drive controllers to be manufactured, e.g. for rotational speed controllers or for precise positioning systems. So it's more important than ever to take advantage of connection technology that you can trust now and in the future.

We specialise in industrial connectivity; our connectivity solutions for the power electronics sector are backed by our comprehensive, real-world expertise. We understand the extremely demanding requirements for the servo-controllers and frequency inverters that are common in this business. Voltages of 400 to 690 V (according to IEC) and 600 V (according to UL), and up to 1,000 V in DC circuits, are not uncommon for such equipment. That is why you require high current-carrying capacity implemented in the most compact space possible. We can provide superior connectivity solutions to meet these challenging requirements.

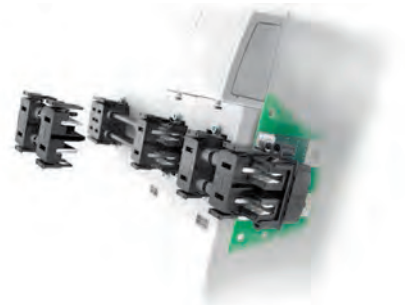
You will be impressed with the vast range of our OMNIMATE® product line. Our OMNIMATE® Signal, OMNIMATE® Power, OMNIMATE® Housings and FieldPower® series offer you a choice range of products and the ideal connectivity solution for your application. We also support you with free 3D CAD files, which can be downloaded from the Weidmüller Online Configurator. In addition our unique, convenient and quick 72-hour OMNIMATE® sample service guarantees your design project stays on schedule. This service is convenient and quick to use – you receive the requested samples within 72 hours.

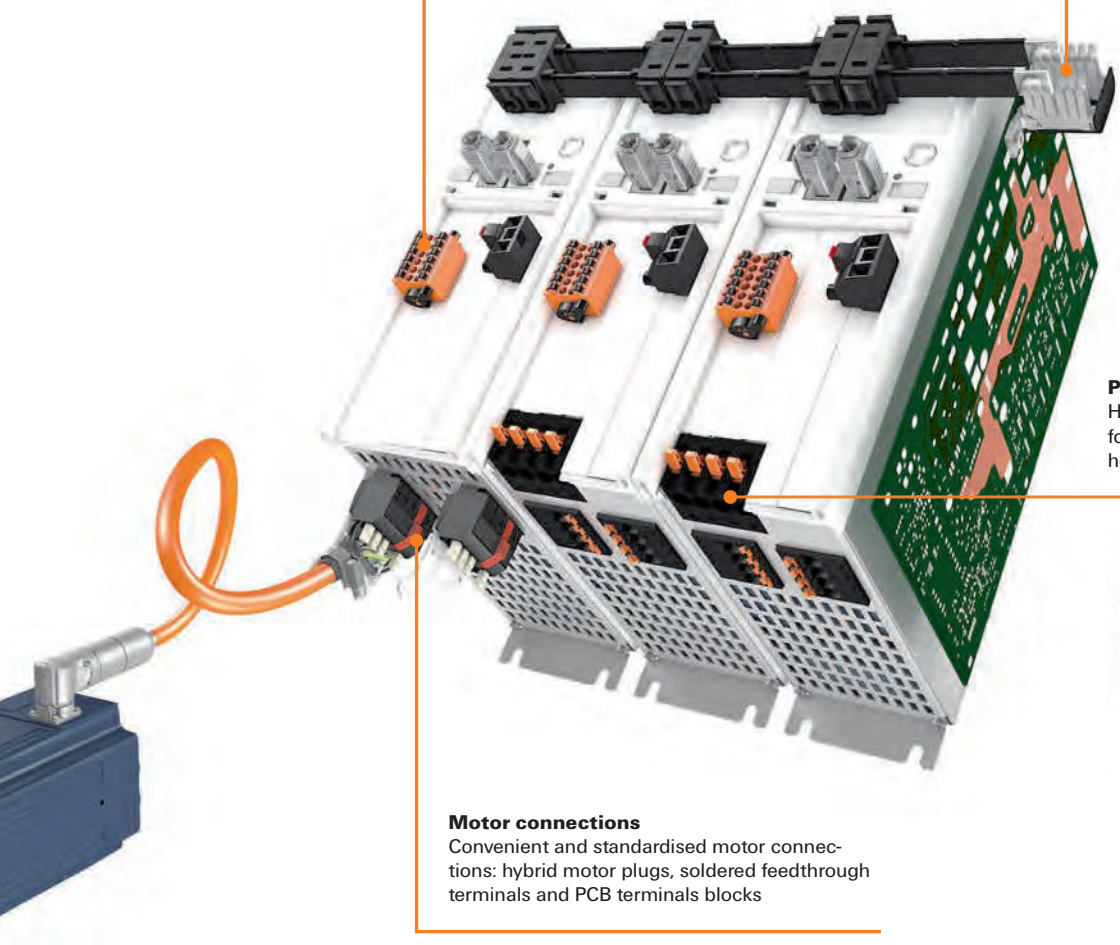
**Network connection**
Industry compliant plugs and sockets with the innovative Single Pair Ethernet technology.

**Motor connection compact**
Modular and hybrid system for the construction of connectors for data, signals and power. Fast, secure and tool-free wiring thanks to the unique SNAP IN connection.

**Safety circuit / External I/Os**
PCB terminals and connectors with PUSH IN or screw connection

**Intermediate circuits (DC-Link)**
Device feedthrough terminals for direct connections, PCB terminals, connectors carrying high voltages safely





**Power supply**
High-performance connectors and terminals for circuit boards; terminals for feeding through housing walls

**Motor connections**
Convenient and standardised motor connections: hybrid motor plugs, soldered feedthrough terminals and PCB terminals blocks

# Shape design-in processes in a uniquely efficient way

## Our services make sure you get perfect results

They develop connection systems for PCBs and devices based on the final application. Our specialists will gladly provide you with concrete support with your design-in process, with expertise, advice and a range of useful services.

Webcode #01167

Our design-in application specialists know your working environment intimately and will support you from the specifications stage right through to series production of your individual solution. Not only will you benefit from our OMNIMATE® services such as the product configurator with 3D Types available for download or the unparalleled fast sample service for your free design-in samples; you'll also have access to a wide range of additional services designed to make your day-to-day work quicker, easier and more professional.

Webcode #01163

**72-hour sample service**

Just order your design-in samples, quickly and easily. Make the most of the free 72-hour sample service for OMNIMATE®. Wherever you're situated, we always keep our word and deliver your samples to the desired location within 72 hours.

Webcode #01201

**Webinars on practical issues**

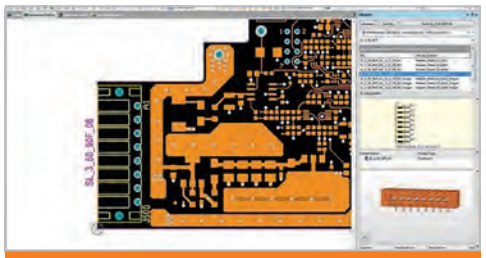
Exciting online seminars on relevant issues relating to device connection systems will help you with the practical aspects of your project. All webinar services are free of charge. You can find out dates, topics and presenters quickly and easily using the corresponing webcode.

Webcode #11359

**Whitepaper**

We share our expertise: Find out detailed information and interesting facts about trend topics in the field of device connectivity in our Whitepaper section.

# OMNIMATE® Services



Webcode #01203

**Component library for electronic PCB design**

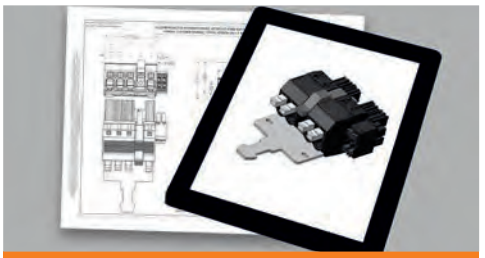
Switching symbols and the painstaking creation of footprints are now things of the past. We offer extensive component libraries of OMNIMATE® PCB terminals and PCB conectors for a wide range of different EDA systems. Simply download and import the data set and you're ready to go.

PARTcommunity

b2b.partcommunity.com

**CAD Types in the Part Community**

CAD Types for our OMNIMATE® PCB connection systems can be found in one of the industry's most important online forums. The "Part Community" allows engineers and technicians to trade knowledge on technical topics in all fields. The Community's online catalogue contains the exact dimensions and all other relevant data for our products.



Webcode #11347

**Technical information**

The OMNIMATE® device connection methodology is highly flexible, ensuring your application requirements are met. The more familiar you are with it, the easier it is to find the optimum component.

**Safe and easy product handling**

A QR code on the product and the outer packaging leads directly to the corresponding handling video. The individual installation steps can be followed directly during processing.

**On-site advice by application specialists**

We develop connection systems for PCBs and devices based on the application. And if you can involve us in your development at an early stage – even better. As part of our personal on-site customer consultancy service, our application specialists will meet with your technicians to discuss questions and problems relating to your project.

**Ready-to-connect cables for every requirement**

From pre-assembled cabling solutions to custom special cables, ensuring reliable and efficient connections is a challenging task. We support you with our demand-oriented assembly services to handle even the most complex of cabling tasks.

# Electronics

**Electronics lie at the heart of your automation technology.**
**We provide products with intelligence.**

# Din-Rail Mount AC Receptacles

## Convenient Power

### Features

- Flexible Mounting: 35mm DIN-rail or panel mounted
- Design Flexibility: Choice of 15A or 20A 120VAC in a duplex or GFCI version
- Single Unit Module: Right out of the box, snap on the DIN-rail and wire it up
- UL508 and cULus Listed: Easy addition to any and every control panel or system
- Visual Power Indication: Ease of trouble shooting and status notification on selected Types

Dual Outlet

GFCI

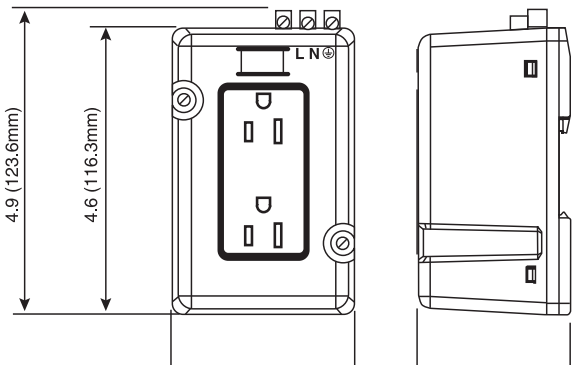
## DRAC

- This DIN-rail mountable duplex receptacle makes adding a 120V maintenance AC outlet to control cabinets quick and easy
- It mounts on standard 35mm DIN-rail
- Short Circuit Current Rate (SCCR) 10kA

| Description | Order Number |
|---|---|
| DRAC DP 20 - 20A, 120VAC Dual Outlet - SCCR 10kA | **6720005420** |
| DRAC DP 15 - 15A, 120VAC Dual Outlet - SCCR 10kA | **6720005421** |
| DRAC GF 15 - 15A, 120VAC GFI Outlet - SCCR 10kA | **6720005422** |
| DRAC GF 20 - 20A, 120VAC GFI Outlet - SCCR 10kA | **7940100412*** |

**cULus, file E331367**

*** indicates new order number**

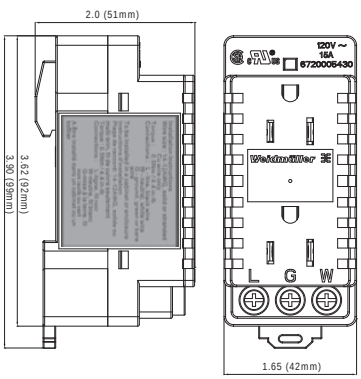


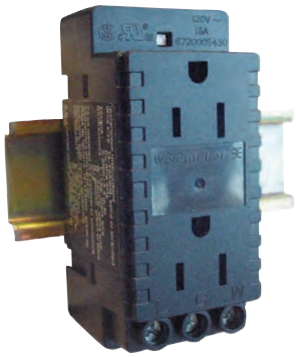

## Slimline Duplex

- Requires just 42mm of DIN-rail and includes power status LED
- Latching mounting foot makes installation and removal from DIN-rail easy
- CSA certified and cURus recognized
- Short Circuit Current Rate (SCCR) 10kA

| Description | Order Number |
|---|---|
| Duplex 15A, 120VAC Outlet with LED - SCCR 10kA | **6720005430** |

**cURus, file E340886**



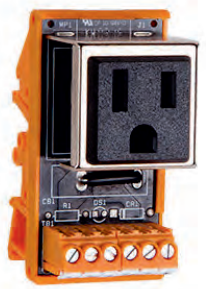
Duplex w/ LED

## RS-Simplex

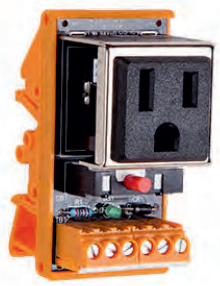
- TS 32 and TS 35 rail mountable
- Versions with or without circuit breaker
- Super small design
- Short Circuit Current Rate (SCCR) 10kA

| Description | Order Number |
|---|---|
| RS-Simplex 15A, 120V Single Outlet - SCCR 10kA | **9915480000** |
| RS-Simplex 5A, 120VAC Outlet with Circuit Breaker - SCCR 10kA | **9915480001** |

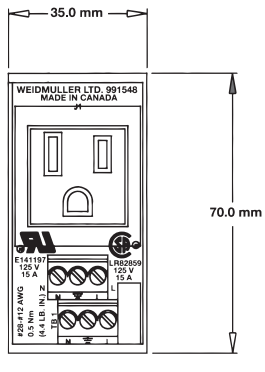
**cURus, file E223801**

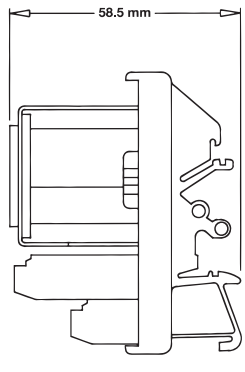


Single Outlet



Single Outlet with Circuit Breaker



# Surge Protection

Electronics

## Exceptional Protection with High-quality Products

Due to the increasing connections and interactions of components and systems, the protection of individual areas is becoming of decisive importance. And surge protection plays a more important role than ever before. As a long-term, innovative partner, Weidmüller stands for reliable high-quality products for circuit and surge protection. In-depth specialist knowledge and hundreds of tailor-made protection solutions make us your ideal partner.

# Surge Protection

The world is becoming more and more digital and surge protection is playing a more important role than ever before. Technical infrastructures and plants have become increasingly complex and sensitive. Due to the increasing connections and interactions of components and systems, the protection of individual areas has become of decisive importance.

As a long-term, innovative partner, Weidmüller stands for reliability and high-quality products for surge protection. With specialization and expertise, we have developed hundreds of tailor-made surge protection solutions which make us your ideal partner. With our broad and comprehensive VARITECTOR product portfolio, we offer surge protection for energy systems, instrumentation, control and data interfaces.

## TYPE I AC Surge Protection

### VARITECTOR PU AC Series – VPU AC I

Type 1/Class 1 Surge protection for AC surge protection before the service panel. Tested by IEC/EN 61643-11 up to 25 kA (10/350µs) lightning pulses, this device supports all common energy grids like TNC, TNCS, TNS and TT for 230/400 V or 400/690 V systems. VPU AC I series devices combines both varistor/spark gap technology in each arrester.

### Features

- Fuseless operation up to 315 A
- Replaceable and lockable arrester for reliability and security
- Full Status Control (Local display and remote signaling)
- DIN-Rail TS-35 mountable with space saving design at only 18mm/pole
- N/PE surge arresters in the product variants VPU AC 1+1 & VPU AC 1+1 R, also in 3+1 variants

### Applications

- Panelboards
- Motor pumps
- Healthcare
- Computer equipment
- Transfer switch
- UPS system
- Building management systems
- Switchboard

| | | Network Configuration | | | | |
|---|---|---|---|---|---|---|
| **Type** | **Voltage UL Un** | **IEC Grid Type** | **UL Grid Type** | **Type/Class** | **Approvals** | **Order Number** |
| VPU AC I 1 300/12.5 | 110V, 120V, 220V, 240V | TN-C | Single Phase | Type 1/Class 1CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591380000** |
| VPU AC I 1 R 300/12.5 | 110V, 120V, 220V, 240V | TN-C | | | | **2591390000** |
| VPU AC I 1+1 300/12.5 | 110V, 120V, 220V, 240V | TN-C, TN-C-S, TN-S, TT | | | | **2591480000** |
| VPU AC I 1+1 R 300/12.5 | 110V, 120V, 220V, 240V | TN-C, TN-C, TN-S, TT | | | | **2591490000** |
| VPU AC I 2 300/12.5 | 110V, 120V, 220V, 240V | TN-C | | | | **2591400000** |
| VPU AC I 2 R 300/12.5 | 110V, 120V, 220V, 240V | TN-C | | | | **2591410000** |
| VPU AC I 3 300/12.5 | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | | | **2591440000** |
| VPU AC I 3 R 300/12.5 | 240V, 120/240V | TN-C | | | | **2591440000** |
| VPU AC I 3+1 300/12.5 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | | | **2591460000** |
| VPU AC I 3+1 R 300/12.5 | 120/208V, 120/240V | TN-C-S, TN-S, TT | | | | **2591470000** |
| VPU AC I 4 300/12.5 | 120/208V, 120/240V | TN-C-S, TN-S | Three Phase WYE, Delta High Leg | | | **2591420000** |
| VPU AC I 4 R 300/12.5 | 120/208V, 120/240V | TN-C-S, TN-S | | | | **2591430000** |

# TYPE II AC Surge Protection

## VARITECTOR PU AC Series – VPU AC II US / VPU AC II

cULus Listed Type 2/Type 1 CA Surge protection for AC installations after the service entrance and TYPE 1 CA after the transformer. The VARITECTOR portfolio offers lightning and surge protection solutions for voltages from 60 V to 600 VAC for diverse applications in energy supply, renewable energies, water management, machinery, transportation and process industry. The products are tested according to the latest standards EN 61643-11/12 (AC) and UL 1449 Ed. 4 to meet NFPA 79.

### Features

- No back-up fuse needed up to 315 A
- Replaceable and lockable MOV Protection
- GDT and MOV Protection Options
- Full Status Control (Local display and remote signaling)
- DIN-Rail TS-35 mountable with space saving design at only 18mm/pole
- N/PE surge arresters in the product variants VPU AC 3+1 & VPU AC 1+1

### Applications

- Water/Wastewater Treatment
- Oil & Gas
- Billboards
- Machinery (inside dwelling)
- Factory Automation
- MCC centers
- Railway stations/Railways
- Data Centers

### Approvals:

VPU AC II US

VPU AC II

| Network Configuration | | | | | | |
|---|---|---|---|---|---|---|
| **Type** | **Voltage UL Un** | **IEC Grid Type** | **UL Grid Type** | **Type/Class** | **Approvals** | **Order Number** |
| VPU AC II 1 75/50 | 60V | TN-C | Single Phase | Type 2/Class 1CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2636990000** |
| VPU AC II US 1 60/50 | 60V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736210000** |
| VPU AC II 1 R 75/50 | 60V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591620000** |
| VPU AC II US 1 R 60/50 | 60V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736270000** |
| VPU AC II 2 75/50 | 60/120V | TN-S | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637000000** |
| VPU AC II US 2 60/50 | 60/120V | TN-S | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736280000** |
| VPU AC II 2 R 75/50 | 60/120V | TN-S | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591630000** |
| VPU AC II US 2 R 60/50 | 60/120V | TN-S | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730790000** |
| VPU AC II 1 150/50 | 120V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591650000** |
| VPU AC II US 1 120/50 | 120V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730450000** |
| VPU AC II 1 R 150/50 | 120V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591660000** |
| VPU AC II US 1 R 120/50 | 120V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730460000** |
| VPU AC II 2 150/50 | 110V, 120V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591670000** |
| VPU AC II US 2 120/50 | 110V, 120V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730470000** |
| VPU AC II 2 R 150/50 | 110V, 120V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591680000** |
| VPU AC II US 2 R 120/50 | 110V, 120V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730480000** |
| VPU AC II 3 150/50 | 120/240V | TN-C | Single Split Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591690000** |
| VPU AC II US 3 120/50 | 120/240V | TN-C | Single Split Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730510000** |
| VPU AC II 3 R 150/50 | 120/240V | TN-C | Single Split Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591700000** |
| VPU AC II US 3 R 120/50 | 120/240V | TN-C | Single Split Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730520000** |

## VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

| Network Configuration | | | | | | |
|---|---|---|---|---|---|---|
| **Type** | **Voltage UL Un** | **IEC Grid Type** | **UL Grid Type** | **Type/Class** | **Approvals** | **Order Number** |
| VPU AC II 4 150/50 | 120/208V | TN-C | Three Phase WYE w/Neutral | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591710000** |
| VPU AC II US 4 120/50 | 120/208V | TN-C | Three Phase WYE w/Neutral | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730490000** |
| VPU AC II 4 R 150/50 | 120/208V | TN-C | Three Phase WYE | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591000000** |
| VPU AC II US 4 R 120/50 | 120/208V | TN-C | Three Phase WYE | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730500000** |
| VPU AC II 1 300/50 | 110V, 20V, 220V, 240V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591020000** |
| VPU AC II US 1 240/50 | 110V, 120V, 220V, 240V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736300000** |
| VPU AC II 1 R 300/50 | 110V, 20V, 220V, 240V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591030000** |
| VPU AC II US 1 R 240/50 | 110V, 120V, 220V, 240V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736310000** |
| VPU AC II 1+1 300/50 | 110V, 20V, 220V, 240V | TN-S | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591060000** |
| VPU AC II US 1+1 240/50 | 110V, 120V, 220V, 240V | TN-S | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736340000** |
| VPU AC II 1+1 R 300/50 | 110V, 20V, 220V, 240V | TN-S | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591070000** |
| VPU AC II US 1+1 R 240/50 | 110V, 120V, 220V, 240V | TN-S | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736350000** |
| VPU AC II 2 300/50 | 110V, 20V, 220V, 240V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591040000** |
| VPU AC II US 2 240/50 | 110V, 120V, 220V, 240V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736320000** |
| VPU AC II 2 R 300/50 | 110V, 20V, 220V, 240V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591050000** |
| VPU AC II US 2 R 240/50 | 110V, 120V, 220V, 240V | TN-C | Single Phase | TYPE 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736330000** |
| VPU AC II 3 300/50 | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591160000** |
| VPU AC II US 3 240/50 | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730540000** |
| VPU AC II 3 R 300/50 | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2591170000** |
| VPU AC II US 3 R 240/50 | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730550000** |
| VPU AC II 3+1 300/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591080000** |
| VPU AC II US 3+1 240/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736360000** |
| VPU AC II 3+1 R 300/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591090000** |
| VPU AC II US 3+1 R 240/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736390000** |
| VPU AC II 4 300/50 | 120/208V, 120/240V | TN-C-S, Tn-S | Three Phase WYE, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591140000** |
| VPU AC II US 4 240/50 | 120/208V, 120/240V | TN-C-S, Tn-S | Three Phase WYE, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736400000** |
| VPU AC II 4 R 300/50 | 120/208V, 120/240V | TN-C-S, Tn-S | Three Phase WYE, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591150000** |
| VPU AC II US 4 R 240/50 | 120/208V, 120/240V | TN-C-S, Tn-S | Three Phase WYE, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736410000** |
| VPU AC II 1 350/50 | 240V, 277V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591350000** |
| VPU AC II US 1 277/50 | 240V, 277V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730570000** |
| VPU AC II 1 R 350/50 | 240V, 277V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591360000** |
| VPU AC II US 1 R 277/50 | 240V, 277V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730580000** |
| VPU AC II 1+1 350/50 | 240V, 277V | TN, TN-S, TT | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637030000** |
| VPU AC II US 1+1 277/50 | 240V, 277V | TN, TN-S, TT | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730650000** |

## VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

| Network Configuration | | | | | | |
|---|---|---|---|---|---|---|
| **Type** | **Voltage UL Un** | **IEC Grid Type** | **UL Grid Type** | **Type/Class** | **Approvals** | **Order Number** |
| VPU AC II 1+1 R 350/50 | 240V, 277V | TN-S | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637040000** |
| VPU AC II US 1+1 R 277/50 | 240V, 277V | TN-S | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730660000** |
| VPU AC II 2 350/50 | 240V, 277V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637010000** |
| VPU AC II US 2 277/50 | 240V, 277V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730630000** |
| VPU AC II 2 R 350/50 | 240V, 277V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637020000** |
| VPU AC II US 2 R 277/50 | 240V, 277V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730640000** |
| VPU AC II 3 350/50 | 277/480V, 240V | TN-C | Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591100000** |
| VPU AC II US 3 277/50 | 277/480V, 240V | TN-C | Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730590000** |
| VPU AC II 3 R 350/50 | 277V/480V, 240V | TN-C | Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591110000** |
| VPU AC II US 3 R 277/50 | 277V/480V, 240V | TN-C | Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730600000** |
| VPU AC II 3+1 350/50 | 120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637050000** |
| VPU AC II US 3+1 277/50 | 120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730670000** |
| VPU AC II 3+1 R 350/50 | 120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2637060000** |
| VPU AC II US 3+1 R 277/50 | 120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730680000** |
| VPU AC II 4 350/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591120000** |
| VPU AC II US 4 277/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase Wye w/ Neutral, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730610000** |
| VPU AC II 4 R 350/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591130000** |
| VPU AC II US 4 R 277/50 | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE w/ Neutral, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730620000** |
| VPU AC II 1 480/50 | 400V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591210000** |
| VPU AC II US 1 400/50 | 400V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730700000** |
| VPU AC II 1 R 480/50 | 400V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591220000** |
| VPU AC II US 1 R 400/50 | 400V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730710000** |

## VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

| Network Configuration | | | | | | |
|---|---|---|---|---|---|---|
| **Type** | **Voltage UL Un** | **IEC Grid Type** | **UL Grid Type** | **Type/Class** | **Approvals** | **Order Number** |
| VPU AC II 2 480/50 | 400V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591230000** |
| VPU AC II 2 R 480/50 | 400V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591240000** |
| VPU AC II 3 480/50 | 277/480V | TN-C | Three Phase WYE w/o Neutral | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591250000** |
| VPU AC II US 3 400/50 | 277/480V | TN-C | Three Phase WYE w/o Neutral | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730720000** |
| VPU AC II 3 R 480/50 | 277/480V | TN-C | Three Phase WYE w/o Neutral | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591260000** |
| VPU AC II US 3 R 400/50 | 277/480V | TN-C | Three Phase WYE w/o Neutral | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730730000** |
| VPU AC II 4 480/50 | 220/380V, 230/400V | TN-C | Three Phase WYE w/ Neutral | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591270000** |
| VPU AC II US 4 400/50 | 220/380V, 230/400V | TN-C | Three Phase WYE w/ Neutral | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730740000** |
| VPU AC II 4 R 480/50 | 220/380V, 230/400V | TN-C | Three Phase WYE w/ Neutral | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591280000** |
| VPU AC II US 4 R 400/50 | 220/380V, 230/400V | TN-C | Three Phase WYE w/ Neutral | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730750000** |
| VPU AC II 1 R 750/35 | 600V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591300000** |
| VPU AC II US 1 R 600/35 | 600V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736420000** |
| VPU AC II 2 R 750/35 | 600V | TN-C | Single Phase | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591310000** |
| VPU AC II US 2 R 600/35 | 600V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736430000** |
| VPU AC II 3 R 750/35 | 480V | TN-C | Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591320000** |
| VPU AC II US 3 R 600/35 | 480V | TN-C | Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2730780000** |
| VPU AC II 1 N-PE 305/65 | 240V | TT | Delta Grounded Corner | Type 2/Class 1 | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2591180000** |

**Learn more about our VARITECTOR lightning and surge protection products, including the VARITECTOR Selector Guide for North America on our website at www.weidmuller.com/varitector**

# TYPE II AC Surge Protection

## VARITECTOR PU AC Series – VPU AC II "Y"

cULus Listed Type 2/Type 1CA Surge protection for AC surge protection after the service panel. The VPU AC II range of surge protectors all offer end of life optical status indication. In addition, the "Y" variant provides a Yellow pre-warning status before complete failure of the arrester. This 2-stage indication provided (visually and via dry contact) gives users ease of maintenance before fully replacing the cartridge.

| Network Configuration | | | | | | |
|---|---|---|---|---|---|---|
| **Type** | **Typical Supply Voltage UL** | **IEC Grid Type** | **UL Grid Type** | **Type/Class** | **Approvals** | **Order Number** |
| VPU AC II 1 R 300/50 Y | 110V, 120V, 220V, 240V | TN-C | Single Phase | Type 1 CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2639350000** |
| VPU AC II US 1 R 240/50 Y | 110V, 120V, 220V, 240V | TN-C | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736470000** |
| VPU AC II 1+1 R 300/50 Y | 110V, 120V, 220V, 240V | TN, TN-S, TT | Single Phase | Type 1 CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2639340000** |
| VPU AC II US 1+1 R 240/50 Y | 110V, 120V, 220V, 240V | TN, TN-S, TT | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736460000** |
| VPU AC II 2 R 300/50 Y | 110V, 120V, 220V, 240V | TN | Single Phase | Type 1 CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2639360000** |
| VPU AC II US 2 R 240/50 Y | 110V, 120V, 220V, 240V | TN | Single Phase | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736480000** |
| VPU AC II 3 R 300/50 Y | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | Type 1 CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2639330000** |
| VPU AC II US 3 R 240/50 Y | 240V, 120/240V | TN-C | Single Split Phase, Delta Ungrounded, Delta Grounded Corner | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736450000** |
| VPU AC II 3+1 R 300/50 Y | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | Type 1 CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2639320000** |
| VPU AC II US 3+1 R 240/50 Y | 120/208V, 120/240V | TN-C-S, TN-S, TT | Three Phase WYE, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736440000** |
| VPU AC II 4 R 300/50 Y | 120/208V, 120/240V | TN-C-S, Tn-S | Three Phase WYE, Delta High Leg | Type 1 CA | IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus | **2639370000** |
| VPU AC II US 4 R 240/50 Y | 120/208V, 120/240V | TN-C-S, Tn-S | Three Phase WYE, Delta High Leg | Type 2/Type 1 CA | cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12 | **2736490000** |

## Accessories

| Type | Description | Order Number |
|---|---|---|
| SDIK PH1 | VDE-insulated crosshead screwdriver, Phillips size 1, Blade length 80 mm | **2749890000** |
| SDIS 1.0X5.5X125 | VDE-insulated screwdriver with slotted blade 1.0x5.5x125 mm | **2749850000** |
| ESG 6/15 K MC NE WS | ESG, Device marker x 15mm, PA 66, Color: white, Self-Adhesive | **1880100000** |
| VPU AC II 0 150/50 | Spare Arrester for All VPU AC II 150/50 Surge protectors | **2591640000** |
| VPU AC II US 0 120/50 | Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.25 kV | **2730440000** |
| VPU AC II 0 300/50 | Spare Arrester for All VPU AC II 300/50 Surge protectors | **2591010000** |
| VPU AC II US 0 240/50 | Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.5 kV | **2730530000** |
| VPU AC II 0 350/50 | Spare Arrester for All VPU AC II 350/50 Surge protectors | **2591340000** |
| VPU AC II US 0 277/50 | Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.75 kV | **2730560000** |
| VPU AC II 0 480/50 | Spare Arrester for All VPU AC II 480/50 Surge protectors | **2591200000** |
| VPU AC II US 0 400/50 | Spare arrester, Surge protection, UP(L/N-PE) ≤ 2.3 kV | **2730690000** |
| VPU AC II 0 750/35 | Spare Arrester for All VPU AC II 750/35 Surge protectors | **2591290000** |
| VPU AC II US 0 600/35 | Spare arrester, Surge protection, UP(L/N-PE) ≤ 3.4 kV | **2730760000** |
| VPU AC II 0 300/50 Y | Spare Arrester for All VPU AC II 300/50 Y Surge protectors | **2659840000** |
| VPU AC II US 0 240/50 Y | Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.5 kV | **2736500000** |
| VPU AC II 0 N-PE 305/65 Y | Spare Arrester for All VPU AC II N-PE 305/65 Y Surge protectors | **2659950000** |
| VPU AC II US 0 N-PE 240/65 | Spare arrester, Surge protection, TT only for N-PE, UP(L/N-PE) ≤ 1.5 kV | **2726820000** |
| PLUG VPU | Remote Status Indicator Connector for ALL VPU AC Types | **1402570000** |

**VPU AC II 0 150/50**

# Instrumentation and Control (I&C) Surge Protection

## VARITECTOR SPC – VSPC and VSPC EX

Surge protection for installation at the immediate vicinity of I&C devices before the service panel. The VARITECTOR SPC features a pluggable arrester which can be easily replaced or tested without any re-wiring. The simple snap-on VSPC BASE allows for convenient mounting while simultaneously establishing a PE contact via the mounting rail.

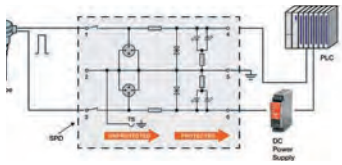
Featuring both, simple operation and high packaging density, the VSPC provides high-quality surge protection for all I&C signals. A colored voltage marker tag allows maintenance staff to quickly identify the unit in the cabinet. These products are suitable for both digital and analogue signals. Weidmuller also offers other designs with integrated components such as gas discharge tubes (GDT) or varistors (MOV).

VSPC Surge Protector - Pluggable

VSPC Control Unit

### Features

- UL 497B approved, standard for Data Comm./Fire-Alarm Circuits
- V-Ground for earthing all sensor signals
- Pluggable arrester with locking clip gives ability to withstand extreme loads
- Remote signaling for monitoring and capability to control via the VSPC CONTROL UNIT.
- Single or multi-channel options
- Hazardous variants with cCSAus approval for use in C1 Div2, Zone 2 locations
- AC/DC (UC) rated voltage variants 5 VUC, 12 VUC, 24 VUC and 48 VUC with color code for voltage levels.



Connection Diagram

### Applications

- Water/Waste Water Treatment
- Oil & Gas
- Machinery
- Power Supply circuits
- Measurement and control
- Data processing
- Telecom

V-Test

| Type | Description | Order Number |
|---|---|---|
| VSPC 1CL 12VDC | 1 or 2 channel current loop protection – some with remote alarm option | 8924450000 |
| VSPC 1CL 12VDC R | | 8951540000 |
| VSPC 1CL 24VDC | | 8924480000 |
| VSPC 1CL 24VDC R | | 8951550000 |
| VSPC 1CL PW 24 | | 8951510000 |
| VSPC 2CL 12VDC | | 8924440000 |
| VSPC 2CL 24VDC | | 8924470000 |
| VSPC 2CL HF 24VDC | | 8924510000 |
| VSPC 2SL 12VDC | 2 or 4 wire status loop protection – some with remote alarm option | 8924230000 |
| VSPC 2SL 24VDC | | 8924330000 |
| VSPC 4SL 5VDC | | 8924200000 |
| VSPC 4SL 5VDC R | | 8951570000 |
| VSPC 2SL 5VDC | | 8924210000 |
| VSPC 2SL 5VDC R | | 8951610000 |
| VSPC 4SL 24VDC | | 8924320000 |
| VSPC 4SL 24VDC R | | 8951590000 |
| VSPC 4SL 24VAC | | 8924340000 |
| VSPC 4SL 24VAC R | | 8951600000 |
| VSPC 2SL 24VAC | | 8924350000 |
| VSPC 2SL 24VAC R | | 8951640000 |

| Type | Description | Order Number |
|---|---|---|
| VSPC 3/4WIRE 24VDC | sensor protection | 8924550000 |
| VSPC GDT 2CH 150VAC/230VDC | general purpose protection | 8924590000 |
| VSPC MOV 2CH 230V | | 8924610000 |
| VSPC RS485 2CH | serial data protection | 8924670000 |
| VSPC BASE 1CL | bases for current loop or status loop protectors | 8924730000 |
| VSPC BASE 1CL R | | 8951730000 |
| VSPC BASE 1CL FG | | 8924290000 |
| VSPC BASE 1CL PW | | 1070230000 |
| VSPC BASE 2CL | | 8924710000 |
| VSPC BASE 2CL FG | | 8924270000 |
| VSPC BASE 2SL | | 8924720000 |
| VSPC BASE 2/4CH | bases for 2 and 4 channel protectors | 8924740000 |
| VSPC BASE 2/4CH FG | | 8924300000 |
| VSPC BASE 2/4CH R | | 8951790000 |
| VSPC BASE 2/4CH FG R | | 8951800000 |
| VSPC CONTROL UNIT 24VDC | for remote status display | 8972270000 |
| V-TEST | Portable tester for VSPC | 8951860000 |
| V-TEST II | Portable tester for VPU | 2661040000 |
| * Additional Types available | | |

# Protection in Intrinsically Safe Circuits

## VARITECTOR SPC EX

### Features

- Approved for use in Zones 2 and 1
- Pluggable arresters
- Can be tested with the V-TEST device
- Available with floating earth PE connections
- Can be used with IEC 62305 and ATEX applications
- Tested in accordance with IEC 61643-21:08 D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

SPC EX

| Type | Description | Operating Temperature | Order Number |
|---|---|---|---|
| VSPC 1CL 5 V DC EX | Analog Signal Surge single signal arrestor 5 V DC | -40°C to +70°C | **8953660000** |
| VSPC 1CL 12 V DC EX | Analog Signal Surge single signal arrestor 12 V DC | -40°C to +70°C | **8953590000** |
| VSPC 1CL 24 V DC EX | Analog Signal Surge single signal arrestor 24 V DC | -40°C to +70°C | **8953600000** |
| VSPC BASE 1CL FG EX | EX base, indirect earthing/floating earth | -40°C to +70°C | **8951810000** |
| VSPC 2CL 24 V DC EX | Analog Signal Surge two signals arrestor 24 V DC | -40°C to +70°C | **8953720000** |
| VSPC BASE 2CL FG EX | EX base, indirect earthing/floating earth FG | -40°C to +70°C | **8951820000** |
| VSPC 1CL PW 24V EX | Current loop signal and device surge arrestor 24 V DC | -40°C to +70°C | **8953610000** |
| VSPC BASE 1CL PW FG EX | EX base, indirect earthing/floating earth FG | -40°C to +70°C | **1070470000** |
| VSPC 2SL 12 V DC EX | Surge protection for two binary signals 12 V DC | -40°C to +70°C | **8953620000** |
| VSPC 2SL 12 V AC EX | Surge protection for two binary signals 12 V AC | -40°C to +70°C | **8953630000** |
| VSPC 2SL 24 V DC EX | Surge protection for two binary signals 24 V DC | -40°C to +70°C | **8953670000** |
| VSPC 2SL 48 V AC EX | Surge protection for two binary signals 48 V AC | -40°C to +70°C | **8953640000** |
| VSPC BASE 2CL PW FG EX | EX base, indirect earthing/floating earth FG | -40°C to +70°C | **8951830000** |
| VSPC 4SL 12 V DC EX | Surge protection for four binary signals 12 V DC | -40°C to +70°C | **1161170000** |
| VSPC 4SL 12 V AC EX | Surge protection for four binary signals 12 V AC | -40°C to +70°C | **1161150000** |
| VSPC 4SL 24 V DC EX | Surge protection for four binary signals 24 V DC | -40°C to +70°C | **1161190000** |
| VSPC 4SL 48 V AC EX | Surge protection for four binary signals 48 V AC | -40°C to +70°C | **1161180000** |
| VSPC BASE 4CL PW FG EX | EX base, indirect earthing/floating earth FG | -40°C to +70°C | **8951840000** |
| VSPC 3/4 WIRE 5 V DC EX | Surge protection for 3/4 wire signals 5 V DC | -40°C to +70°C | **8953650000** |
| VSPC BASE 4SL FG EX | EX base, indirect earthing/floating earth FG | -40°C to +70°C | **8951840000** |

### Accessories

| Type | Description | Order Number |
|---|---|---|
| V-TEST | Portable test for VSPC pluggable arresters | **8951860000** |
| VSPC CONTROL UNIT | Monitoring remote alarms of individual VSPC...R modules. (max . of 10 units) | **8972270000** |
| VSPC LOCKING CLIP | Fastening element | **9008570000** |
| DEK 5/5 PLUS MC NE WS | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmuller, white | **1854490000** |
| QB 17.8 / 2 | Cross connectors between the VSPC signal contacts & Control Unit | **1309470000** |

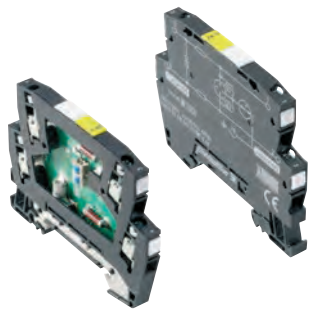
# VARITECTOR SSC4 – VSSC4 and VSSC4 EX

## VSSC 4 CL and CL FG – Surge Protection for Analog Signals

### Features

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

| Type | Description | Order Number |
|---|---|---|
| VSSC4 CL 12VDC 0.5A | Surge protector for analog signals 12 VDC | **1063720000** |
| VSSC4 CL FG 12 VDC 0.5A | Surge protector for analog signals 12 VDC with Floating Ground | **1063760000** |
| VSSC4 CL 24 VAC/DC 0.5A | Surge protector for analog signals 24 VUC | **1063730000** |
| VSSC4 CL FG 24 VAC/DC 0.5A | Surge protector for analog signals 24 VUC with Floating Ground | **1063770000** |
| VSSC4 CL 48 VAC/DC 0.5A | Surge protector for analog signals 48 VUC | **1063740000** |
| VSSC4 CL FG 48 VAC/DC 0.5A | Surge protector for analog signals 48 VUC with Floating Ground | **1063780000** |



**VSSC 4 CL and CL FG**

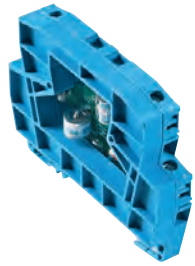
# VARITECTOR SSC EX

## VSSC 4 CL FG EX – Surge Protection for Floating Earth, Intrinsically Safe Current Loops

### Features

- 2-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 12.4mm
- Version with floating earth PE connection
- Complies with IEC 62305 and ATEX applications
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

| Type | Description | Order Number |
|---|---|---|
| VSSC4 CL FG 24VAC/DC Ex | Surge protector floating earth 24 VAC/DC | **1063810000** |
| VSSC4 CL FG 48VAC/DC Ex | Surge protector floating earth 48 VAC/DC | **1063820000** |
| AP VSSC4 LB | End Plate | **1067240000** |



**VSSC 4 CL FG EX**

## VSSC 4 SL and SL CL FG – Surge Protection for Binary Signals with Signal Display

### Features

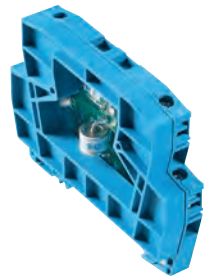
- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

| Type | Description | Order Number |
|---|---|---|
| VSSC4 SL LD 12VDC 0.5A | Surge protector for binary signals 12 VDC | **1063830000** |
| VSSC4 SL FG LD 12 VDC 0.5A | Surge protector for binary signals 12 VDC with Floating Ground | **1063880000** |
| VSSC4 SL LD 24 VAC/DC 0.5A | Surge protector for binary signals 24 VUC | **1063840000** |
| VSSC4 SL FG LD 24 VAC/DC 0.5A | Surge protector for binary signals 24 VUC with Floating Ground | **1063890000** |
| VSSC4 SL LD 48 VAC/DC 0.5A | Surge protector for binary signals 48 VUC | **1063860000** |
| VSSC4 SL LD 60 VAC/DC 0.5A | Surge protector for binary signals 60 VUC | **1063870000** |

**VSSC 4 SL and SL CL FG**

## VSSC 4 SL FG EX – Surge Protection for Floating Earth, Binary, Intrinsically Safe Current Loops

- 2-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 12.4mm
- Version with 1 binary floating ground signal
- Complies with IEC 62305 and ATEX applications
- Complies with IEC 61643-21:08 D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

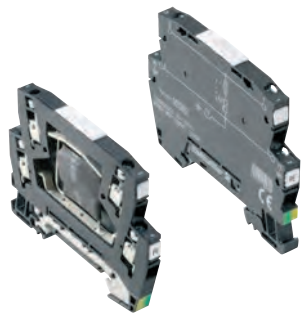


VSSC 4 SL FG EX

| Type | Description | Order Number |
|---|---|---|
| VSSC4 SL FG 24VAC/DC Ex | Surge protector floating earth 24 VAC/DC | **1063930000** |
| VSSC4 SL FG 48VAC/DC Ex | Surge protector floating earth 48 VAC/DC | **1063940000** |
| AP VSSC4 LB | End Plate | **1067240000** |

## VSSC 4 MOV – Surge Protection with Varistor

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature



VSSC 4 MOV

| Type | Description | Order Number |
|---|---|---|
| VSSC4 MOV 12VDC | Surge protector with varistor 12 VDC | **1063950000** |
| VSSC4 MOV 24VDC/AC | Surge protector with varistor 24 VAC/DC | **1063960000** |
| VSSC4 MOV 48 VAC/DC | Surge protector with varistor 48 VAC/DC | **1063970000** |
| VSSC4 MOV 60 VAC/DC | Surge protector with varistor 60 VAC/DC | **1063980000** |
| VSSC4 MOV 120 VAC/DC | Surge protector with varistor 120 VAC/DC | **1063990000** |
| VSSC4 MOV 150 VAC/DC | Surge protector with varistor 150 VAC/DC | **1064010000** |
| VSSC4 MOV 240 VAC/DC | Surge protector with varistor 240 VAC/DC | **1064020000** * |

* indicates new order number

## VSSC 4 GDT – Surge Protection with Spark Over Gap (GDT)

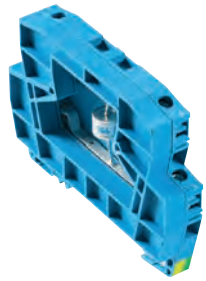
- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 12.4mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

VSSC 4 GDT

| Type | Description | Order Number |
|---|---|---|
| VSSC4 GDT 110 VAC/DC 20k | Surge protector with spark over gap 110 VAC/DC | **1064050000** |
| VSSC4 GDT 240 VAC/DC 20k | Surge protector with spark over gap 240 VAC/DC | **1064060000** |

## VSSC 4 GDT EX – Surge Protection with Spark Over Gap (GDT)

- 1-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 12.4mm
- Complies with IEC 62305 and ATEX applications
- Complies with IEC 61643-21:08 C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations



VSSC 4 GDT EX

| Type | Description | Order Number |
|---|---|---|
| VSSC4 GDT55VUC 20kA Ex | Surge protector with spark over gap (GDT) | **1064040000** |
| AP VSSC4 LB | End Plate | **1067240000** |

## VSSC 4 TAZ – Surge Protection with Suppression Diode (TAZ)

- 1-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

VSSC 4 TAZ

| Type | Description | Order Number |
|---|---|---|
| VSSC4 TAZ 12 VDC | Surge protector with suppression diode 12 VDC | **1064070000** |
| VSSC4 TAZ 24 VAC/DC | Surge protector with suppression diode 24 VUC | **1064080000** |
| VSSC4 TAZ 48 VAC/DC | Surge protector with suppression diode 48 VUC | **1064090000** |

## VSSC 4 RC – Surge Protection with Resistors and Capacitors

- 2-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 12.4mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21:08
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

VSSC 4 RC

| Type | Description | Order Number |
|---|---|---|
| VSSC4 RC 24 VAC/DC | Surge protector with resister and capacitor 24 VUC | **1064120000** |
| VSSC4 RC 240 VAC/DC | Surge protector with resister and capacitor 240 VUC | **1064130000** |

## Accessories

| Type | Description | Order Number |
|---|---|---|
| AP VSSC4 | End plate for VSSC 4 (1064120000/1064130000) surge protectors | **1063120000** |

# VARITECTOR SSC6 – VSSC6 and VSSC6 EX

## VSSC 6 CL and CL FG – Surge Protection for Analog Signals

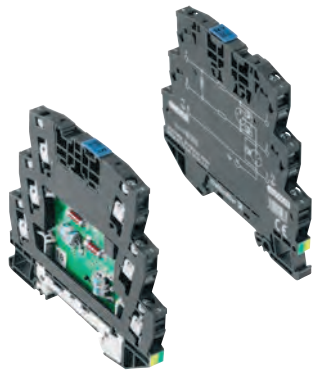
- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

VSSC 6 CL and CL FG

| Type | Description | Order Number |
|---|---|---|
| VSSC6 CL 12VDC 0.5A | Surge protector for analog signals 12 VDC | **1064150000** |
| VSSC6 CL FG 12 VDC 0.5A | Surge protector for analog signals 12 VDC with Floating Ground | **1064260000** |
| VSSC6 CL 24 VAC/DC 0.5A | Surge protector for analog signals 24 VUC | **1064170000** |
| VSSC6 CL FG 24 VAC/DC 0.5A | Surge protector for analog signals 24 VUC with Floating Ground | **1064270000** |
| VSSC6 CL 48 VAC/DC 0.5A | Surge protector for analog signals 48 VUC | **1064190000** |
| VSSC6 CL FG 48 VAC/DC 0.5A | Surge protector for analog signals 48 VUC with Floating Ground | **1064280000** |
| VSSC6 CL 60 VAC/DC 0.5A | Surge protector for analog signals 60 VUC | **1064210000** |
| VSSC6 CL FG 60 VAC/DC 0.5A | Surge protector for analog signals 60 VUC with Floating Ground | **1064290000** |

## VSSC 6 SL FG and LD – Surge Protection for Binary Signals with Signal Display

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature



VSSC 6 SL FG and LD

| Type | Description | Order Number |
|---|---|---|
| VSSC6 SL LD 12VDC 0.5A | Surge protector for binary signals 12 VDC | **1064340000** |
| VSSC6 SL FG LD 12 VDC 0.5A | Surge protector for binary signals 12 VDC with Floating Ground | **1064420000** |
| VSSC6 SL LD 24 VAC/DC 0.5A | Surge protector for binary signals 24 VUC | **1064350000** |
| VSSC6 SL FG LD 24 VAC/DC 0.5A | Surge protector for binary signals 24 VUC with Floating Ground | **1064430000** |
| VSSC6 SL FG LD 48 VAC/DC 0.5A | Surge protector for binary signals 48 VUC with Floating Ground | **1064440000** |

## VSSC 6 TR CL and TR CL FG – Surge Protection for Floating Signals with Signal Display

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

| Type | Description | Order Number |
|---|---|---|
| VSSC6 TR SL LD 12VDC 0.5A | Surge protector for binary signals 12 VDC | **1064380000** |
| VSSC6 TR SL FG LD 12 VDC 0.5A | Surge protector for binary signals 12 VDC with Floating Ground | **1064490000** |
| VSSC6 TR SL LD 24 VAC/DC 0.5A | Surge protector for binary signals 24 VUC | **1064390000** |
| VSSC6 TR SL FG LD 24 VAC/DC 0.5A | Surge protector for binary signals 24 VUC with Floating Ground | **1064500000** |
| VSSC6 TR SL LD 48 VAC/DC 0.5A | Surge protector for binary signals 48 VUC | **1064400000** |

**VSSC 6 TR CL and TR CL FG**

## VSSC 6 TR CL FG EX – Surge Protection for Floating Earth, Intrinsically Safe Current Loops with Isolation Function

- 2-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 6.2mm
- Signals can be separated for measurement
- Complies with IEC 62305 and ATEX applications
- Can be used in Zones 2, 1, and 0
- Complies with IEC 61643-21:08 D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

| Type | Description | Order Number |
|---|---|---|
| VSSC6 TRCLFG 24 VAC/DC Ex | Surge protector floating earth w/ isolation 24 VAC/DC | **1066490000** |
| AP VSSC LB | End Plate | **1067230000** |

**VSSC 6 TR CL FG EX**

## VSSC 6 MOV – Surge Protection with Varistor

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

| Type | Description | Order Number |
|---|---|---|
| VSSC6 MOV 12VDC | Surge protector with varistor 12 VDC | **1064530000** |
| VSSC6 MOV 24VDC/AC | Surge protector with varistor 24 VAC/DC | **1064540000** |
| VSSC6 MOV 48 VAC/DC | Surge protector with varistor 48 VAC/DC | **1064570000** |
| VSSC6 MOV 60 VAC/DC | Surge protector with varistor 60 VAC/DC | **1064600000** |
| VSSC6 MOV 120 VAC/DC | Surge protector with varistor 120 VAC/DC | **1064610000** |
| VSSC6 MOV 240 VAC/DC | Surge protector with varistor 240 VAC/DC | **1064630000** |

**VSSC 6 MOV**

## VSSC 6 MOV – Surge Protection with Varistor and Signal Indication

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

| Type | Description | Order Number |
|---|---|---|
| VSSC6 TR LD MOV 12VDC | Surge protector w/varistor & indication 12 VDC | **1064800000** |
| VSSC6 TR LD MOV 24VDC/AC | Surge protector w/varistor & indication 24 VAC/DC | **1064810000** |
| VSSC6 TR LD MOV 48 VAC/DC | Surge protector w/varistor & indication 48 VAC/DC | **1064820000** |
| VSSC6 TR LD MOV 120 VAC/DC | Surge protector w/varistor & indication 120 VAC/DC | **1064840000** |
| VSSC6 TR LD MOV 150 VAC/DC | Surge protector w/varistor & indication 150 VAC/DC | **2591650000*** |
| VSSC6 TR LD MOV 240 VAC/DC | Surge protector w/varistor & indication240 VAC/DC | **1064860000** |

**VSSC 6 TR LD MOV**

*** indicates new order number**

## VSSC 6 RS485 – Surge Protection for RS232/RS485 Data Signals

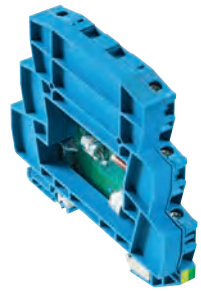
- 2-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

| Type | Description | Order Number |
|---|---|---|
| VSSC6 RS485 | Surge protector for RS485 | **1064980000** |
| VSSC6 RS485 DP | Surge protector for RS485 DP | **1065010000** |
| VSSC6 RS232 | Surge protector for RS232 | **1064990000** |

**VSSC 6 RS485**

## VSSC 6 RS485 PROFIBUS PA – Surge Protection for RS422/485 Intrinsically Safe Signals

- 2-stage surge protection for intrinsically safe PROFIBUS PA RS422/485 data interfaces
- Modular terminal block design width 6.2mm
- Complies with IEC 62305
- Can be used in Zones 2, 1, and 0
- Complies with IEC 61643-21:08 D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations



VSSC 6 RS485 PROFIBUS PA

| Type | Description | Order Number |
|---|---|---|
| VSSC6 RS485 PA Ex | Surge protector RS422/485 PROFIBUS PA | **1065020000** |
| AP VSSC LB | End plate | **1067230000** |

## VSSC 6 RTD – Surge Protection for PT100 Signal Interfaces

- 1-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

VSSC 6 RTD

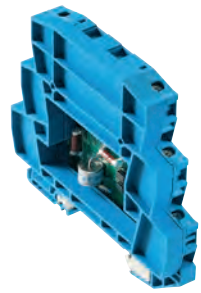
| Type | Description | Order Number |
|---|---|---|
| VSSC6 RTD | Surge protector for PT100 signals | **1139710000** |

### Accessories

| Type | Description | Order Number |
|---|---|---|
| AP VSSC6 | End plate for VSSC 6 surge protectors | **1063110000** |

## VSSC 6 RTD EX – Surge Protection for PT100 Intrinsically Safe Signals

- 2-stage surge protection for intrinsically safe PT100/PT1000 signals
- Modular terminal block design width 12.4mm
- Complies with IEC 62305
- Complies with IEC 61643-21:08 D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations



VSSC 6 RTD EX

| Type | Description | Order Number |
|---|---|---|
| VSSC6 RTD Ex | Surge protector for PT100/PT1000 | **1130670000** |
| AP VSSC LB | End plate | **1067230000** |

## VSSC 6 TR CL and TR CL FG – Surge Protection for Floating Current Loops

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

**VSSC 6 TR CL and TR CL FG**

| Type | Description | Order Number |
|---|---|---|
| VSSC6 TR CL 12VDC 0.5A | Surge protector for floating loops 12 VDC | **1064220000** |
| VSSC6 TR CL FG 12 VDC 0.5A | Surge protector for floating loops 12 VDC with Floating Ground | **1064300000** |
| VSSC6 TR CL 24 VAC/DC 0.5A | Surge protector for floating loops 24 VUC | **1064230000** |
| VSSC6 TR CL FG 24 VAC/DC 0.5A | Surge protector for floating loops 24 VUC with Floating Ground | **1064310000** |
| VSSC6 TR CL 48 VAC/DC 0.5A | Surge protector for floating loops 48 VUC | **1064240000** |
| VSSC6 TR CL FG 48 VAC/DC 0.5A | Surge protector for floating loops 48 VUC with Floating Ground | **1064320000** |
| VSSC6 TR CL 60 VAC/DC 0.5A | Surge protector for floating loops 60 VUC | **1064250000** |
| VSSC6 TR CL FG 60 VAC/DC 0.5A | Surge protector for floating loops 60 VUC with Floating Ground | **1064330000** |

## VDATA CAT6
## For Ethernet Data Lines and SCADA Infrastructure

- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

**VDATA CAT6**

| Type | Description | Order Number |
|---|---|---|
| VDATA CAT6 | Terminal rail fixing, Surge protection, 1 A, | **1348590000** |

# Circuit Protection

Electronics

## UL 489 and UL 1077 DIN-Rail Miniature Circuit Breakers

Weidmuller offers a complete line of DIN-rail mountable circuit breakers in thermal magnetic, hydraulic magnetic and electronic technologies. Used to distinguish between circuit overloads and short circuits, the complete line of miniature circuit breakers are engineered for either AC or DC, or both, in branch and supplementary circuit protection. For space savings, we offer various width sizes from 8.2mm to 17.5mm widths as listed or recognized per UL 489, UL 1077, and CSA 22.2 No. 5-02/235. These circuit breakers are proven solutions to protect your wires and cables from application or device malfunctions. All circuit breakers are available with an assortment of busbar, marking tags, and additional accessories to complement your needs.

# Circuit Protection

## Branch Rated, Supplementary & Electronic Circuit Protection

Weidmuller's DIN-rail mounted circuit breakers are available for use in applications where circuit protection must be able to distinguish between circuit overloads and short circuits. Each circuit breaker has the ability to be reset without the need to change components. All circuit breakers are available with an assortment of jumpers and marking tags.

### Features and Benefits

- Miniature circuit breaker
- Numerous trip curves
- Overcurrent protection
- Thermal and hydraulic solutions
- Electronic protectors
- AC and DC protection

## Highly-Rated Branch and Supplementary Circuit Breakers

## Thermal Magnetic Protection

1-, 2- and 3-pole thermal-magnetic miniature circuit breakers (MCBs) in accordance with EN 60947-2, UL 1077 and UL 489 for DIN-rail mounting, with toggle actuation, visual status indication and high rupture capacity. A positively trip-free snap action mechanism ensures reliable switching behavior. A range of trip characteristics and add-on modules allow a great variety of applications.

**BR Series UL 489 version**

**SU Series IEC/EN60947-2 & UL 1077 version**

### Typical Applications

- Protection of cables, motors, generators and transformers, thyristors and silicon rectifiers.
- Protection of computers and their peripheral equipment, industrial process control systems, telecommunications equipment, power supplies.

# UL 489 DIN-Rail Branch Circuit Breakers
# BRxxxUC

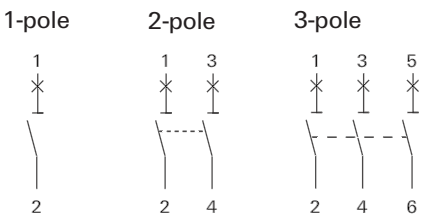
## BR Series Product Selection
## Part Number Nomenclature

*(Part Number found on the front of the breaker)*

**BR** **2** **D** **60** **UC**

- **UC** — AC/DC Rated
- **60** — Rated Amps = 1, 1.2, 1.5, 1.6, 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63
- **BR** — BR = Branch Rated Circuit Breakers
- **2** — No. of Poles = 1, 2 or 3
- **D** — Curve = B, C or D

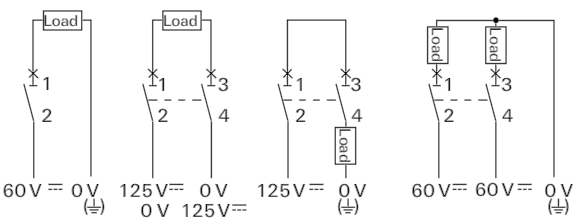
## Schematic Diagrams



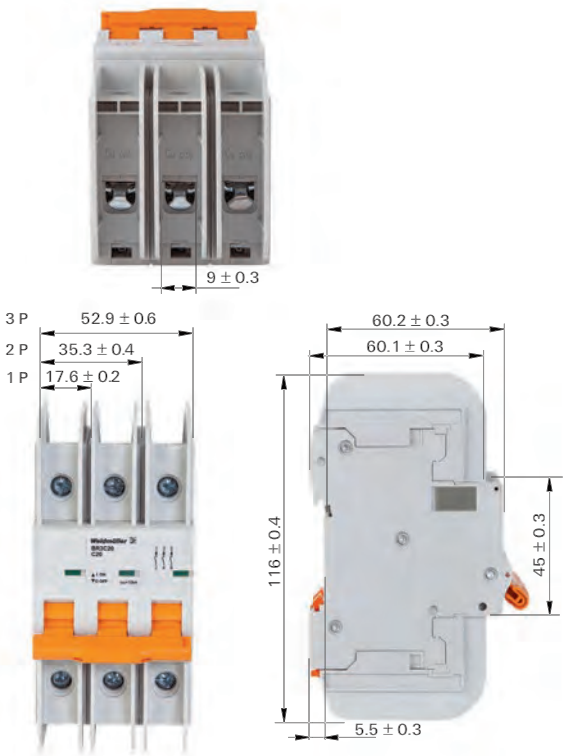

## DC Application

When using the BR/SUxxxUC in DC applications, polarity does not have to be observed. Maximum acceptable voltage between the conductors depends on the number of poles, circuitry and relevant standard / approval.

**To UL 489:**




## Dimensions – UL 489 version




All dimensions without tolerances are for reference only. Weidmuller reserves the right to change specifications at any time without notice in the interest of improved design, performance and cost effectiveness.

# BR Series Product Selection

## x = B Curve

| Amps | 1 Pole Order Number | | 2 Pole Order Number | | 3 Pole Order Number | |
|---|---|---|---|---|---|---|
| 1 | **2477040000*** | MCB 489 1P x 1A ACDC | **2477290000*** | MCB 489 2P x 1A ACDC | **2477540000*** | MCB 489 3P x 1A ACDC |
| 1.2 | **2477050000*** | MCB 489 1P x 1.2A ACDC | **2477300000*** | MCB 489 2P x 1.2A ACDC | **2477550000*** | MCB 489 3P x 1.2A ACDC |
| 1.5 | **2477060000*** | MCB 489 1P x 1.5A ACDC | **2477310000*** | MCB 489 2P x 1.5A ACDC | **2477560000*** | MCB 489 3P x 1.5A ACDC |
| 1.6 | **2477070000*** | MCB 489 1P x 1.6A ACDC | **2477320000*** | MCB 489 2P x 1.6A ACDC | **2477570000*** | MCB 489 3P x 1.6A ACDC |
| 2 | **2477090000*** | MCB 489 1P x 2A ACDC | **2477330000*** | MCB 489 2P x 2A ACDC | **2477580000*** | MCB 489 3P x 2A ACDC |
| 3 | **2477080000*** | MCB 489 1P x 3A ACDC | **2477340000*** | MCB 489 2P x 3A ACDC | **2477590000*** | MCB 489 3P x 3A ACDC |
| 4 | **2477100000*** | MCB 489 1P x 4A ACDC | **2477350000*** | MCB 489 2P x 4A ACDC | **2477600000*** | MCB 489 3P x 4A ACDC |
| 5 | **2477110000*** | MCB 489 1P x 5A ACDC | **2477360000*** | MCB 489 2P x 5A ACDC | **2477610000*** | MCB 489 3P x 5A ACDC |
| 6 | **2477120000*** | MCB 489 1P x 6A ACDC | **2477370000*** | MCB 489 2P x 6A ACDC | **2477620000*** | MCB 489 3P x 6A ACDC |
| 7 | **2477130000*** | MCB 489 1P x 7A ACDC | **2477380000*** | MCB 489 2P x 7A ACDC | **2477630000*** | MCB 489 3P x 7A ACDC |
| 8 | **2477140000*** | MCB 489 1P x 8A ACDC | **2477390000*** | MCB 489 2P x 8A ACDC | **2477640000*** | MCB 489 3P x 8A ACDC |
| 10 | **2515480000*** | MCB 489 1P x 10A ACDC | **2477400000*** | MCB 489 2P x 10A ACDC | **2477650000*** | MCB 489 3P x 10A ACDC |
| 12 | **2477160000*** | MCB 489 1P x 12A ACDC | **2477410000*** | MCB 489 2P x 12A ACDC | **2477660000*** | MCB 489 3P x 12A ACDC |
| 13 | **2477170000*** | MCB 489 1P x 13A ACDC | **2477420000*** | MCB 489 2P x 13A ACDC | **2477670000*** | MCB 489 3P x 13A ACDC |
| 15 | **2477180000*** | MCB 489 1P x 15A ACDC | **2477430000*** | MCB 489 2P x 15A ACDC | **2477680000*** | MCB 489 3P x 15A ACDC |
| 16 | **2477190000*** | MCB 489 1P x 16A ACDC | **2477440000*** | MCB 489 2P x 16A ACDC | **2477690000*** | MCB 489 3P x 16A ACDC |
| 20 | **2477200000*** | MCB 489 1P x 20A ACDC | **2477450000*** | MCB 489 2P x 20A ACDC | **2477700000*** | MCB 489 3P x 20A ACDC |
| 25 | **2477210000*** | MCB 489 1P x 25A ACDC | **2477460000*** | MCB 489 2P x 25A ACDC | **2477710000*** | MCB 489 3P x 25A ACDC |
| 30 | **2477220000*** | MCB 489 1P x 30A ACDC | **2477470000*** | MCB 489 2P x 30A ACDC | **2477720000*** | MCB 489 3P x 30A ACDC |
| 32 | **2477230000*** | MCB 489 1P x 32A ACDC | **2477480000*** | MCB 489 2P x 32A ACDC | **2477730000*** | MCB 489 3P x 32A ACDC |
| 35 | **2477240000*** | MCB 489 1P x 35A ACDC | **2477490000*** | MCB 489 2P x 35A ACDC | **2477740000*** | MCB 489 3P x 35A ACDC |
| 40 | **2477250000*** | MCB 489 1P x 40A ACDC | **2477500000*** | MCB 489 2P x 40A ACDC | **2477750000*** | MCB 489 3P x 40A ACDC |
| 50 | **2477260000*** | MCB 489 1P x 50A ACDC | **2477510000*** | MCB 489 2P x 50A ACDC | **2477760000*** | MCB 489 3P x 50A ACDC |
| 60 | **2477270000*** | MCB 489 1P x 60A ACDC | **2477520000*** | MCB 489 2P x 60A ACDC | **2477770000*** | MCB 489 3P x 60A ACDC |
| 63 | **2477280000*** | MCB 489 1P x 63A ACDC | **2477530000*** | MCB 489 2P x 63A ACDC | **2477780000*** | MCB 489 3P x 63A ACDC |

Additional current rating versions are available. Please contact your Weidmuller Sales Representative.

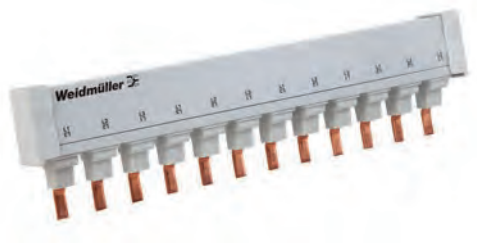
* indicates new order number

# Accessories

## Busbar and Busbar Accessories

## Busbars UL 489 – cuttable

Busbars for the connection of circuit breakers type BRxxxUC to UL 489. The busbars of 1 meter length can individually be cut to a suitable length for the application and isolated with end caps. Depending on the control cabinet design, the supply is by means of supply terminals without increasing the installation width or by means of a terminal block directly on the rail without increasing the installation height. Three busbar models are available for use with auxiliary contact modules with a width of 9 mm.




### Ordering Data

| No. of Poles | No. of Devices | No. of Pins | Description | Order Number |
|---|---|---|---|---|
| 1-Pole | 12 | 12 | MCB BUS BAR UL489 1 POLE 12 PIN | 7940099234* |
| | 18 | 18 | MCB BUS BAR UL489 1 POLE 18 PIN | 7940104504* |
| | 57 | 57 | MCB BUS BAR UL489 1 POLE 57 PIN | 7940099236* |
| 2-Pole | 6 | 12 | MCB BUS BAR UL489 2 POLE 12 PIN | 7940099237* |
| | 9 | 18 | MCB BUS BAR UL489 2 POLE 18 PIN | 7940104505* |
| | 28 | 56 | MCB BUS BAR UL489 2 POLE 56 PIN | 7940099238* |
| 3-Pole | 4 | 12 | MCB BUS BAR UL489 3 POLE 12 PIN | 7940099239* |
| | 6 | 18 | MCB BUS BAR UL489 3 POLE 18 PIN | 7940104507* |
| | 19 | 57 | MCB BUS BAR UL489 3 POLE 57 PIN | 7940104509* |
| *1-Pole with Auxiliary Module Spacing | 37 | 37 | MCB BUS BAR UL489 1 POLE 37 PIN AUX | 7940099235* |
| **2-Pole with Auxiliary Module Spacing | 23 | 46 | MCB BUS BAR UL489 2 POLE 46 PIN AUX | 7940104506* |
| ***3-Pole with Auxiliary Module Spacing | 16 | 48 | MCB BUS BAR UL489 3 POLE 48 PIN AUX | 7940104508* |

**Feeder Terminal**

**Bottom/Direct Feeder Terminal**

**Endcap**

### Accessories for Busbars UL 489

| Description | Order Number |
|---|---|
| Feeder Terminal, UL 489, 115 A | 7940099232* |

| Description | Order Number |
|---|---|
| Bottom/Direct Feeder Terminal, UL 489, 115 A | 7940099233* |

| Description | Order Number |
|---|---|
| Endcap for UL 489 Cuttable Busbar | 7940099230* |

| Description | Order Number |
|---|---|
| Protective Cap for UL 489 cuttable busbar, 3 caps per bar | 7940099231* |

| Description | Order Number |
|---|---|
| Lock-on, Lock-off Device | 7940099123* |

**Protective Cap**

**Lock-on, Lock-off Device**

* indicates new order number

# UL 1077 DIN-Rail Supplementary Circuit Breakers

## SUxxxUC

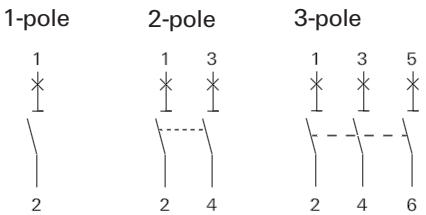
### SU Series Product Selection
### Part Number Nomenclature

*(Part Number found on the front of the breaker)*

**SU** **2** **D** **60** **UC**

- **UC** — AC/DC Rated
- **60** — Rated Amps = 1, 1.2, 1.5, 1.6, 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63
- **D** — Curve = B, C or D
- **2** — No. of Poles = 1, 2 or 3
- **SU** — SU = Supplementary Protectors

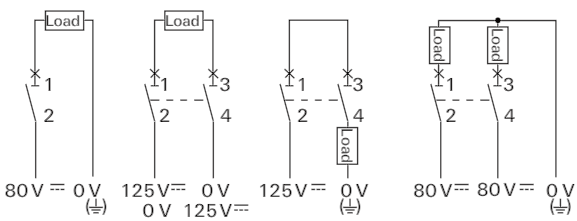
### Schematic Diagrams



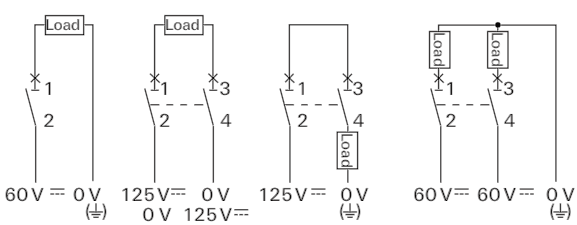

### DC Application

When using the BR/SUxxxUC in DC applications, polarity does not have to be observed. Maximum acceptable voltage between the conductors depends on the number of poles, circuitry and relevant standard / approval.

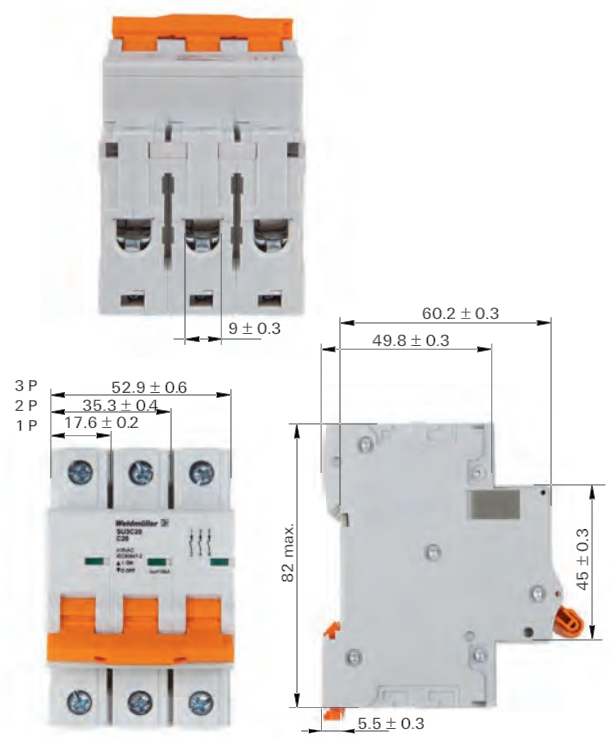
**To IEC/EN 60947-2:**




**To UL 1077:**




### Dimensions – IEC/EN 60947-2 / UL1077 version



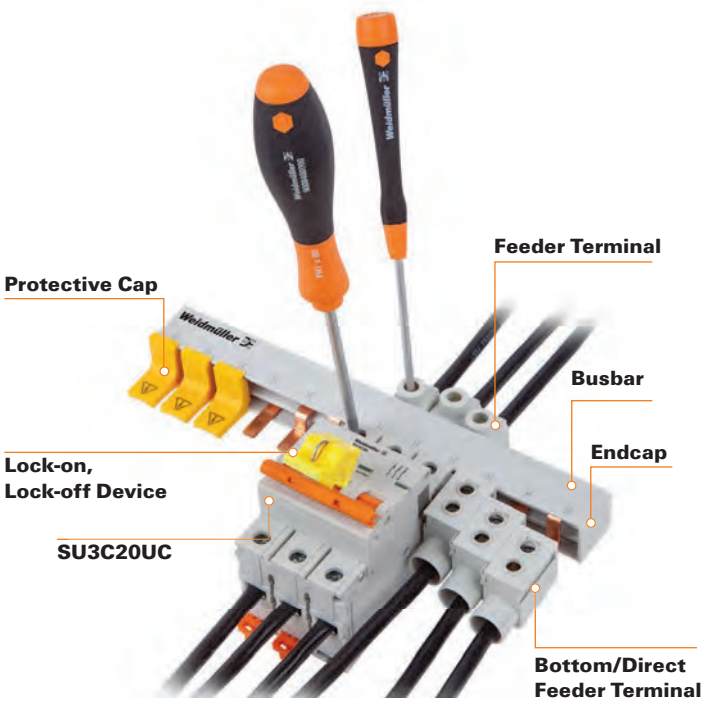

All dimensions without tolerances are for reference only. Weidmuller reserves the right to change specifications at any time without notice in the interest of improved design, performance and cost effectiveness.

## SU Series Product Selection

**x = B Curve**

| Amps | 1 Pole Order Number | Description | 2 Pole Order Number | | 3 Pole Order Number | |
|---|---|---|---|---|---|---|
| 1 | **2479280000*** | MCB 1077 1P x 1A ACDC | **2247952000*** | MCB 1077 2P x 1A ACDC | **2479760000*** | MCB 1077 3P x 1A ACDC |
| 1.2 | **2479290000*** | MCB 1077 1P x 1.2A ACDC | **2479530000*** | MCB 1077 2P x 1.2A ACDC | **2479770000*** | MCB 1077 3P x 1.2A ACDC |
| 1.5 | **2479300000*** | MCB 1077 1P x 1.5A ACDC | **2479540000*** | MCB 1077 2P x 1.5A ACDC | **2479780000*** | MCB 1077 3P x 1.5A ACDC |
| 1.6 | **2479310000*** | MCB 1077 1P x 1.6A ACDC | **2521330000*** | MCB 1077 2P x 1.6A ACDC | **2479790000*** | MCB 1077 3P x 1.6A ACDC |
| 2 | **2479320000*** | MCB 1077 1P x 2A ACDC | **2479560000*** | MCB 1077 2P x 2A ACDC | **2479800000*** | MCB 1077 3P x 2A ACDC |
| 3 | **2479330000*** | MCB 1077 1P x 3A ACDC | **2479570000*** | MCB 1077 2P x 3A ACDC | **2479810000*** | MCB 1077 3P x 3A ACDC |
| 4 | **2479340000*** | MCB 1077 1P x 4A ACDC | **2479580000*** | MCB 1077 2P x 4A ACDC | **2479820000*** | MCB 1077 3P x 4A ACDC |
| 5 | **2479350000*** | MCB 1077 1P x 5A ACDC | **2479590000*** | MCB 1077 2P x 5A ACDC | **2479830000*** | MCB 1077 3P x 5A ACDC |
| 6 | **2479360000*** | MCB 1077 1P x 6A ACDC | **2479600000*** | MCB 1077 2P x 6A ACDC | **2479840000*** | MCB 1077 3P x 6A ACDC |
| 7 | **2479370000*** | MCB 1077 1P x 7A ACDC | **2479610000*** | MCB 1077 2P x 7A ACDC | **2479850000*** | MCB 1077 3P x 7A ACDC |
| 8 | **2479380000*** | MCB 1077 1P x 8A ACDC | **2479620000*** | MCB 1077 2P x 8A ACDC | **2479860000*** | MCB 1077 3P x 8A ACDC |
| 10 | **2515110000*** | MCB 1077 1P x 10A ACDC | **2479630000*** | MCB 1077 2P x 10A ACDC | **2479870000*** | MCB 1077 3P x 10A ACDC |
| 12 | **2479400000*** | MCB 1077 1P x 12A ACDC | **2479640000*** | MCB 1077 2P x 12A ACDC | **2479880000*** | MCB 1077 3P x 12A ACDC |
| 13 | **2479410000*** | MCB 1077 1P x 13A ACDC | **2479650000*** | MCB 1077 2P x 13A ACDC | **2479890000*** | MCB 1077 3P x 13A ACDC |
| 15 | **2479420000*** | MCB 1077 1P x 15A ACDC | **2479660000*** | MCB 1077 2P x 15A ACDC | **2479900000*** | MCB 1077 3P x 15A ACDC |
| 16 | **2479430000*** | MCB 1077 1P x 16A ACDC | **2479670000*** | MCB 1077 2P x 16A ACDC | **2479910000*** | MCB 1077 3P x 16A ACDC |
| 20 | **2479440000*** | MCB 1077 1P x 20A ACDC | **2479680000*** | MCB 1077 2P x 20A ACDC | **2479920000*** | MCB 1077 3P x 20A ACDC |
| 25 | **2479450000*** | MCB 1077 1P x 25A ACDC | **2479690000*** | MCB 1077 2P x 25A ACDC | **2479930000*** | MCB 1077 3P x 25A ACDC |
| 30 | **2479460000*** | MCB 1077 1P x 30A ACDC | **2479700000*** | MCB 1077 2P x 30A ACDC | **2479940000*** | MCB 1077 3P x 30A ACDC |
| 32 | **2515120000*** | MCB 1077 1P x 32A ACDC | **2515130000*** | MCB 1077 2P x 32A ACDC | **2515140000*** | MCB 1077 3P x 32A ACDC |
| 35 | **2479470000*** | MCB 1077 1P x 35A ACDC | **2479710000*** | MCB 1077 2P x 35A ACDC | **2479950000*** | MCB 1077 3P x 35A ACDC |
| 40 | **2479480000*** | MCB 1077 1P x 40A ACDC | **2479720000*** | MCB 1077 2P x 40A ACDC | **2479960000*** | MCB 1077 3P x 40A ACDC |
| 50 | **2479490000*** | MCB 1077 1P x 50A ACDC | **2479730000*** | MCB 1077 2P x 50A ACDC | **2479970000*** | MCB 1077 3P x 50A ACDC |
| 60 | **2479500000*** | MCB 1077 1P x 60A ACDC | **2479740000*** | MCB 1077 2P x 60A ACDC | **2479980000*** | MCB 1077 3P x 60A ACDC |
| 63 | **2479510000*** | MCB 1077 1P x 63A ACDC | **2479750000*** | MCB 1077 2P x 63A ACDC | **2479990000*** | MCB 1077 3P x 63A ACDC |

* indicates new order number



# Supplementary Breaker Accessories
# Busbars UL 1077 – cuttable

Busbars for the connection of circuit breakers type SUxxxUC to UL 1077. The busbars of 1 meter length can individually be cut to a suitable length for the application and isolated with end caps. Depending on the control cabinet design, the supply is by means of supply terminals without increasing the installation width or by means of a terminal block directly on the rail without increasing the installation height. Three busbar models are available for use with auxiliary contact modules with a width of 9 mm.

## Ordering Data

| No. of Poles | No. of Devices | No. of Pins | Description | Order Number |
|---|---|---|---|---|
| 1-Pole | 12 | 12 | MCB BUS BAR UL1077 1 POLE 12 PIN | **7940099008*** |
| | 18 | 18 | MCB BUS BAR UL1077 1 POLE 18 PIN | **7940104908*** |
| | 57 | 57 | MCB BUS BAR UL1077 1 POLE 57 PIN | **7940104909*** |
| 2-Pole | 6 | 12 | MCB BUS BAR UL1077 2 POLE 12 PIN | **7940099133*** |
| | 9 | 18 | MCB BUS BAR UL1077 2 POLE 18 PIN | **7940099417*** |
| | 28 | 56 | MCB BUS BAR UL1077 2 POLE 56 PIN | **7940104910*** |
| 3-Pole | 4 | 12 | MCB BUS BAR UL1077 3 POLE 12 PIN | **7940099195*** |
| | 6 | 18 | MCB BUS BAR UL1077 3 POLE 18 PIN | **7940104912*** |
| | 19 | 57 | MCB BUS BAR UL1077 3 POLE 57 PIN | **7940099418*** |
| 1-Pole with Auxiliary Module Spacing | 37 | 37 | MCB BUS BAR UL1077 1 POLE 37 PIN AUX | **7940099415*** |
| 2-Pole with Auxiliary Module Spacing | 23 | 46 | MCB BUS BAR UL1077 2 POLE 46 PIN AUX | **7940104911*** |
| 3-Pole with Auxiliary Module Spacing | 16 | 48 | MCB BUS BAR UL1077 3 POLE 48 PIN AUX | **7940104913*** |

**1P Top Feed Terminal**

**2/3P Top Feed Terminal**

**Bottom/Direct Feeder Terminal**

## Top Feed Terminal

| Description | Order Number |
|---|---|
| MCB BUS BAR UL1077 1P TERM TOP FEED | **7940104937*** |
| MCB BUS BAR UL1077 2/3P TERM TOP FEED | **7940099078*** |

## Bottom/Direct Feeder Terminal

| Description | Order Number |
|---|---|
| MCB BUS BAR UL1077 1/2/3P TERM BOT FEED | **7940099453*** |

## Endcap

| Description | Order Number |
|---|---|
| MCB BUS BAR UL1077 1P END CAP | **7940099060*** |
| MCB BUS BAR UL1077 2/3P END CAP | **7940099223*** |

**Endcap**

## Protective Cap

| Description | Order Number |
|---|---|
| MCB BUS BAR UL1077 BUS CAP YEL (5 caps) | **7940099216*** |

**Protective Cap**

## Lock-on, Lock-off Device

| Description | Order Number |
|---|---|
| Lock-on, Lock-off Device | **7940099123*** |

**Lock-on, Lock-off Device**

* indicates new order number

# 9926 Series Branch Circuit Breakers and Supplementary Protectors

Weidmuller's range of industrial, DIN-rail mounted circuit breakers are part of our broad electronics portfolio, which provides isolation and protection solutions for automation control systems. Compared with traditional fused protection, these compact circuit breakers can be closely tailored to the application, in order to simplify control and minimize equipment downtime in the event of a fault.

Product ratings and mechanical construction are designed to provide the high levels of reliability expected from automation and control equipment installed on capital plant, and specifications conform to recognized international standards.

### Overview of 9926 Series

**Model QL**
- AC Branch-rated circuit breakers
- UL489 Listed, CSA, VDE, CE conformity
- 1, 2 and 3 pole units (NEW)
- Ratings up to 240V/25A

**Model QY**
- DC Branch-rated circuit breakers
- UL489A Listed, VDE, CE conformity
- 1 and 2 pole units (NEW)
- Ratings up to 125V/60A

**Model QZ**
- AC Supplementary circuit breakers
- UL1077 Recognized, VDE, CE conformity, CSA
- 1, 2 and 3 pole units
- Ratings up to 277/480V/60A

**Model GFCI**
- AC Supplementary circuit breakers
- UL1077 and UL1053 Recognized, CE conformity
- 1 pole (+N) units
- Ratings up to 240V/63A

### 9926 Series Features
- For industrial AC and DC installations
- Models either for branch applications cULus (UL489/CSA C22.2 No 5.02) approvals or supplemental cURus/UL1077 approved /CSA C22.2 No. 235.
- Single and multi-pole models, with auxiliary/trip options
- Trip point unaffected by ambient temperature changes
- Variety of trip characteristics available, to suit equipment protected
- Narrow width on mounting rail – 13mm per pole
- GFCI models with standard ratings up to 240V/50A
- Full set of approved accessories, such as busbars, power lugs, lock-out handles

## Hydraulic Magnetic Branch Protection
## QL-9926 Series Circuit Breakers AC Version

### Features and Benefits
- AC Circuit Breaker
- Hydraulic-Magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two and three pole (UL). One, two, three pole and 1+N, 3+N (VDE).
- VDE and CCC approved, CE certified
- UL listed (CSA / UL 489)
- Ratings 0.1 to 25 A
- Optional Auxiliary Switch / Trip Alarm - factory fitted (6.5 mm wide)
- Optional Shunt Trip (no approvals)
- Wide range of time delays and operating currents
- Precision tripping characteristics
- Ultra compact – 13 mm wide module
- Trip indication with mid-trip handle
- Reset immediately after overload
- DIN mount product in grey shells
- Dual mount product in black shells
- Current limiting capability
- Ring terminal ready (terminal screw is removable)
- Suitable to use for electrical isolation

**Dual mount (black body)**

## Long Code

### Example Code: QL–AT-3(13)-D-KM-15A–––Z

| Group | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Requirement | QL Frame | Switch / Neutral | Auxiliary + Trip Alarm | Triple pole | 13 mm module width | DIN Rail | Medium delay curve KM | Current Rating 15 A | Future use | No Shunt Trip | Future use | Parallel bridged (by customer) |
| **Long Code** | **QL** | **–** | **AT** | **3** | **(13)** | **D** | **KM** | **15A** | **–** | **–** | **–** | **Z** |

| | | | | |
|---|---|---|---|---|
| **Group 1: Frame Type** | **Code** | **Description** | **Comments** | |
| | QL | 13 mm wide Miniature Circuit Breaker | UL 489, IEC / EN 60947-2, VDE, CE, CCC | |
| **Group 2: Switch/Neutral** | **Code** | **Description** | **Comments** | |
| | – | Not applicable | Overload poles do not have any further coding | |
| | N | Neutral | | |
| **Group 3: Auxiliary** | **Code** | **Description** | **Comments** | |
| | – | Not applicable | Use this code if no Auxiliary used | |
| | A | Auxiliary Switch (1 x Aux in 1 module) | 6.5 mm module fitted on right-hand side (DIN & Dual Mount) | |
| | T | Trip Alarm (1 x Trip Alarm in 1 module) | 6.5 mm module fitted on right-hand side (Dual Mount only) | |
| | AT | Auxiliary Switch + Trip Alarm combo (combined in 1 module) | 6.5 mm module fitted on right-hand side (Dual Mount only) | |
| **Group 4: No of Poles** | **Code** | **Description** | **Comments** | |
| | 1 | Single pole | | |
| | 2 | Double pole | 2 pole or1+N | |
| | 3 | Triple pole | | |
| | 4 | Four pole | 3+N only | |
| **Group 5: Module Width** | **Code** | **Description** | **Comments** | |
| | (13) | 13 mm module width | 13 mm per pole | |
| **Group 6: Mounting** | **Code** | **Description** | **Comments** | |
| | D | DIN rail mount – 45 mm Escutcheon, grey body | DIN mount supplied in grey only | |
| | DM | Dual mount – 57 mm Escutcheon, black body | Dual mount supplied in black only | |
| **Group 7: Time Delays** | **Code** | **Description** | **Instantaneous Trip Point (x In)** | **Comments** |
| | 1 | Long time delay, high instantaneous trip | 10 – 20 | Orange handle |
| | 3 | Short time delay | 3 – 5 | White handle |
| | 9 | Long time delay | 7 – 12 | White handle |
| | KM | Medium time delay | 6 – 12 | White handle |
| | OP | Instantaneous | None | White handle |
| **Group 8: Current Ratings** | **Code / Description** | | **Comments** | |
| | 0.1, 0.2, 0.3, 0.5, 1, 2, 3, 4, 5, 6, 7, 8 ,9, 10, 12, 15, 16, 20, 25 A | | Ratings available vary depending on certification<br>* Other ratings are available as special orders. Check availability. | |
| **Group 9:** | **Code** | For future use (-) | | |
| **Group 10: Shunt Trip (not certified, only offered as special order)** | **Code** | **Description** | **Comments** | |
| | – | Not applicable | Use this code if no Shunt Trip is used | |
| | VO | 100 – 480 V AC | Fly leads (approximately 60 mm long) | |
| | VS | 100 – 480 V AC | Internally connected | |
| | Other voltages are available as special orders. Check availability. | | | |
| **Group 11:** | **Code** | For future use (-) | | |
| **Group 12: Special Termination** | **Code** | **Description** | **Comments** | |
| | – | Not applicable | Use this code if no special terminations are used | |
| | P | Plug-in | | |
| | Z | Bridged unit (bridge to be fitted by customer) | | |
| | ZL | Bridged unit (factory fitted) | | |

# 9926 Series Branch Circuit Breakers (AC)

## Circuit Breakers
## Hydraulic Magnetic Type

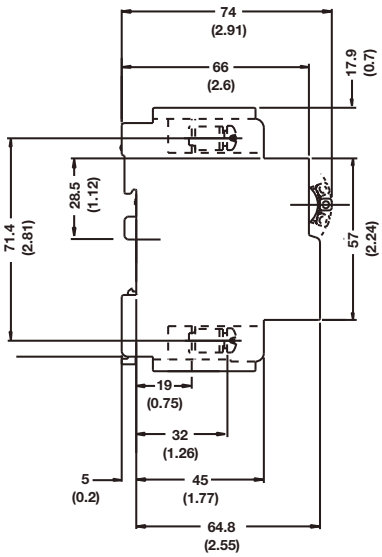
- 1, 2 and 3 pole versions
- 120/240 VAC, 50/60 Hz
- Up to 25A
- Just 13 mm wide, per pole
- Mounts on 35mm DIN-rail
- cULus listed according to UL489, CSA C22.2 No. 5.02, CE, VDE

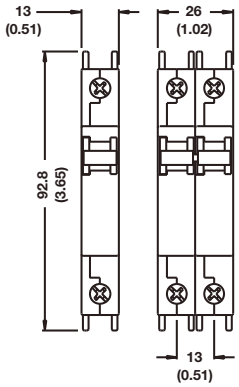
### Technical Data

| | |
|---|---|
| **Voltage** | 120/240 VAC, 50/0Hz |
| **Current minimum** | 0.5A |
| **Current maximum** | 25A |
| **Interrupting capacity** | 10,000A |
| **Dielectric strength** | 1500V, 50/60Hz |
| **Insulation resistence** | 100 MΩ |
| **Operating Life** | 10000 mechanical operations |
| **Operating temperature** | -40...+65°C |
| **Wire size*** | |
| ***0.5-15A:** | **14AWG min., 10AWG max.** |
| **20-25A:** | **10AWG min.** |
| **Torque** | **20 in.-lb** |

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

### Dimension Diagrams in mm (in.)




**Readily Available**

**9926 Series Single Pole**

| Type: Single Pole (up to 120 VAC) | | |
|---|---|---|
| **Current Ratings (amps)** | **Description** | **Order Number** |
| 0.5 | QL-1-13-DM-KM-0.5 | **7940102571 *** |
| 1 | QL-1-13-DM-KM-01 | **7940125379 *** |
| 2 | QL-1-13-DM-KM-02 | **7940102572 *** |
| 3 | QL-1-13-DM-KM-03 | **7940102573 *** |
| 4 | QL-1-13-DM-KM-04 | **7940102574 *** |
| 5 | QL-1-13-DM-KM-05 | **7940102575 *** |
| 6 | QL-1-13-DM-KM-06 | **7940102576 *** |
| 7 | QL-1-13-DM-KM-07 | **7940102577 *** |
| 8 | QL-1-13-DM-KM-08 | **7940102578 *** |
| 10 | QL-1-13-DM-KM-10 | **7940102580 *** |
| 13 | QL-1-13-DM-KM-13 | **7940102581 *** |
| 15 | QL-1-13-DM-KM-15 | **7940102582 *** |
| 16 | QL-1-13-DM-KM-16 | **7940102583 *** |
| 20 | QL-1-13-DM-KM-20 | **7940102584 *** |
| 25 | QL-1-13-DM-KM-25 | **7940102585 *** |

**9926 Series Double Pole**

| Type: Double Pole (up to 240 VAC) | | |
|---|---|---|
| **Current Ratings (amps)** | **Description** | **Order Number** |
| 0.5 | QL-2-13-DM-KM-0.5 | **9926252000** |
| 1 | QL-2-13-DM-KM-01 | **7940102643 *** |
| 2 | QL-2-13-DM-KM-02 | **7940102644 *** |
| 3 | QL-2-13-DM-KM-03 | **7940102645 *** |
| 4 | QL-2-13-DM-KM-04 | **7940102646 *** |
| 5 | QL-2-13-DM-KM-05 | **7940102647 *** |
| 6 | QL-2-13-DM-KM-06 | **9926252006** |
| 7 | QL-2-13-DM-KM-07 | **7940102649 *** |
| 8 | QL-2-13-DM-KM-08 | **7940102650 *** |
| 10 | QL-2-13-DM-KM-10 | **9926252010** |
| 13 | QL-2-13-DM-KM-13 | **7940102652 *** |
| 15 | QL-2-13-DM-KM-15 | **9926252015** |
| 16 | QL-2-13-DM-KM-16 | **7940102654 *** |
| 20 | QL-2-13-DM-KM-20 | **7940126749 *** |
| 25 | QL-2-13-DM-KM-25 | **7940102656 *** |

**9926 Series Triple Pole**

| Type: Triple Pole (up to 240 VAC) | | |
|---|---|---|
| **Current Ratings (amps)** | **Description** | **Order Number** |
| 1 | QL-3(13)-DM-KM-1A | **9926253001** |
| 2 | QL-3(13)-DM-KM-2A | **9926253002** |
| 5 | QL-3(13)-DM-KM-5A | **9926253005** |
| 10 | QL-3(13)-DM-KM-10A | **9926253010** |
| 15 | QL-3(13)-DM-KM-15A | **9926253015** |
| 20 | QL-3(13)-DM-KM-20A | **9926253020** |
| 25 | QL-3(13)-DM-KM-25A | **9926253025** |

*** indicates new order number**

# 9926 Series Branch Circuit Breakers (AC)

## Circuit Breakers with Auxiliary switch, Trip alarm, Combination of both

- AC voltages (120/240V)
- 1, 2 and 3 pole versions
- cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE
- Factory fitted auxiliary or trip alarm
- Compact 6.5mm width, per pole
- Attached to right-hand side of circuit breaker

### Technical Data

| | |
|---|---|
| Voltage | 120/240 VAC, 50/0Hz |
| Current minimum | 0.5A |
| Current maximum | 25A |
| Interrupting capacity | 10,000A |
| Dielectric strength | 1500V, 50/60Hz |
| Insulation resistence | 100 MΩ |
| Operating Life | 10000 mechanical operations |
| Operating temperature | -40...+65°C |
| Wire size* | |
| 0.5-15A: | 14AWG min., 10AWG max. |
| 20-25A: | 10AWG min. |
| Torque | 20 in.-lb |

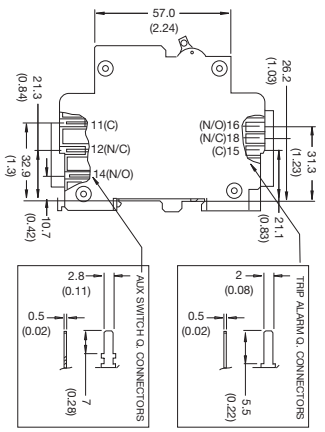
### Approvals

cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE

†UL 489 listed
(5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)
IEC 60947-5-1 Approved
(5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.
The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The order number for adhesive SchS2 is **1720600000**.

**Dimension Diagrams in mm (in.)**




### 9926 Series Single Pole w/ Auxiliary Contact†

| Type: Single Pole Trip (up to 120 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-A-1-13-DM-KM-1 | 7940102708* |
| 2 | QL-A-1-13-DM-KM-2 | 7940102709* |
| 5 | QL-A-1-13-DM-KM-5 | 7940102711* |
| 10 | QL-A-1-13-DM-KM-10 | 7940102712* |
| 15 | QL-A-1-13-DM-KM-15 | 7940102713* |
| 20 | QL-A-1-13-DM-KM-20 | 7940102714* |
| 25 | QL-A-1-13-DM-KM-25 | 7940102715* |

### 9926 Series Single Pole Trip (Alarm Contact)

| Type: Single Pole Trip (up to 120 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-T-1-13-DM-KM-1 | 7940114042* |
| 2 | QL-T-1-13-DM-KM-2 | 7940114042* |
| 5 | QL-T-1-13-DM-KM-5 | 7940114044* |
| 10 | QL-T-1-13-DM-KM-10 | 7940102724* |
| 15 | QL-T-1-13-DM-KM-15 | 7940114045* |
| 20 | QL-T-1-13-DM-KM-20 | 7940114046* |
| 25 | QL-T-1-13-DM-KM-25 | 7940114047* |

### 9926 Series Single Pole Combination (Auxiliary & Alarm Contact)†

| Type: Triple Pole (up to 120 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-AT-1-13-DM-KM-1 | 7940114055* |
| 2 | QL-AT-1-13-DM-KM-2 | – |
| 5 | QL-AT-1-13-DM-KM-5 | 7940102725* |
| 10 | QL-AT-1-13-DM-KM-10 | 7940102726* |
| 15 | QL-AT-1-13-DM-KM-15 | 9926281015 |
| 20 | QL-AT-1-13-DM-KM-20 | 7940114056* |
| 25 | QL-AT-1-13-DM-KM-25 | 7940114057* |

### 9926 Series Double Pole w/ Auxiliary Contact†

| Type: Double Pole Aux (up to 240 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-A-2-13-DM-KM-1 | 7940114041 * |
| 2 | QL-A-2-13-DM-KM-2 | 7940119828 * |
| 5 | QL-A-2-13-DM-KM-5 | 7940119829 * |
| 10 | QL-A-2-13-DM-KM-10 | – |
| 15 | QL-A-2-13-DM-KM-15 | 7940119830 * |
| 20 | QL-A-2-13-DM-KM-20 | 7940119831 * |
| 25 | QL-A-2-13-DM-KM-25 | – |

### 9926 Series Double Pole Trip (Alarm Contact)

| Type: Double Pole Trip (up to 240 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-T-2-13-DM-KM-1 | 7940114048* |
| 2 | QL-T-2-13-DM-KM-2 | 7940114049* |
| 5 | QL-T-2-13-DM-KM-5 | 7940114050* |
| 10 | QL-T-2-13-DM-KM-10 | 7940114051* |
| 15 | QL-T-2-13-DM-KM-15 | 7940114052* |
| 20 | QL-T-2-13-DM-KM-20 | 7940114053* |
| 25 | QL-T-2-13-DM-KM-25 | 7940114054* |

### 9926 Series Double Pole Combination (Auxiliary & Alarm Contact)†

| Type: Double Pole Combo (up to 240 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-AT-2-13-DM-KM-1 | 7940114058* |
| 2 | QL-AT-2-13-DM-KM-2 | 7940114059* |
| 5 | QL-AT-2-13-DM-KM-5 | – |
| 10 | QL-AT-2-13-DM-KM-10 | 7940126754* |
| 15 | QL-AT-2-13-DM-KM-15 | 7940102727* |
| 20 | QL-AT-2-13-DM-KM-20 | 7940114060* |
| 25 | QL-AT-2-13-DM-KM-25 | 7940114061* |

### 9926 Series Triple Pole w/ Auxiliary Contact†

| Type: Triple Pole Aux (up to 240 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-A-3(13)-DM-KM-1A | – |
| 2 | QL-A-3-13-DM-KM-2A | – |
| 5 | QL-A-3-13-DM-KM-5A | – |
| 10 | QL-A-3-13-DM-KM-10A | – |
| 15 | QL-A-3-13-DM-KM-15A | – |
| 20 | QL-A-3-13-DM-KM-20A | – |
| 25 | QL-A-3-13-DM-KM-25A | – |

### 9926 Series Triple Pole (Alarm Contact)

| Type: Triple Pole Trip (up to 240 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-T-3(13)-DM-KM-1A | 7940115448* |
| 2 | QL-T-3(13)-DM-KM-2A | 7940115449* |
| 5 | QL-T-3(13)-DM-KM-5A | 7940115450* |
| 10 | QL-T-3(13)-DM-KM-10A | 7940115451* |
| 15 | QL-T-3(13)-DM-KM-15A | 7940115452* |
| 20 | QL-T-3(13)-DM-KM-20A | 7940115453* |
| 25 | QL-T-3(13)-DM-KM-25A | 7940115454* |

### 9926 Series Triple Pole (Auxiliary & Alarm Contact)†

| Type: Triple Pole Combo (up to 240 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QL-AT-3(13)-DM-KM-1A | 7940115455* |
| 2 | QL-AT-3(13)-DM-KM-2A | 7940115456* |
| 5 | QL-AT-3(13)-DM-KM-5A | 7940115457* |
| 10 | QL-AT-3(13)-DM-KM-10A | 7940115458* |
| 15 | QL-AT-3(13)-DM-KM-15A | 7940115459* |
| 20 | QL-AT-3(13)-DM-KM-20A | 7940115460* |
| 25 | QL-AT-3(13)-DM-KM-25A | 7940115461* |

*** indicates new order number**

### Common Applications:

- AC branch circuit protection (UL 489, IEC / EN 60847-2)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Power conditioning equipment

## 9926 (QL) Series Miniature Circuit Breaker Technical Data

| Approvals | IEC / EN 60947-2, VDE | | | | |
|---|---|---|---|---|---|
| Number of Poles | 1 | 2 (1+N) | 2 | 3 | 4(3+N) |
| Operating Voltages | 240 V AC | | 415 V AC | | |
| Minimum Current Rating | 0.1 A | | | | |
| Maximum Current Rating | 25 A | | | | |
| Interrupting Capacity | 6 kA | | | | |
| Operating Temperature Range | -40°C to +85°C | | | | |
| Mounting Options | DIN Rail, Dual mounting (DIN & Mini), surface mounting clip | | | | |
| Time Delay Curves | 1, 3, 9, KM, OP | | | | |

| Approvals | UL 489 | | | |
|---|---|---|---|---|
| Number of Poles | 1 | 1 | 2 | 3 |
| Operating Voltages | 120 V AC | 240 V AC | 120 / 240 V AC | 240 V AC |
| Minimum Current Rating | 0.1 A | | | |
| Maximum Current Rating | 25 A | 20 A | 25 A | 25 A |
| Interrupting Capacity | 10 kA | 5 kA | 10 kA | 5 kA |
| Operating Temperature Range | -40°C to +85°C | | | |
| Mounting Options | DIN Rail, Dual mounting (DIN & Mini), surface mounting clip | | | |
| Time Delay Curves | 1, 3, 9, KM, OP | | | |

| Approvals | CCC | | |
|---|---|---|---|
| Number of Poles | 1 | 2 (1+N) | 2 |
| Operating Voltages | 240 V AC | 240 V AC | 240 V AC |
| Minimum Current Rating | 0.1 A | | |
| Maximum Current Rating | 25 A | 25 A | 25 A |
| Interrupting Capacity | 6 kA | | |
| Operating Temperature Range | -40°C to +85°C | | |
| Mounting Options | DIN Rail, Dual mounting (DIN & Mini), surface mounting clip | | |
| Time Delay Curves | 1, 3, 9, KM, OP | | |

| Breaker QL | Wire Size mm² (IEC) | Wire Gauge (UL) | Torque (IEC) | Torque (UL) | Comments |
|---|---|---|---|---|---|
| 1 Pole & 2 Pole | 0.75 - 35 mm² | 18 – 2 – AWG | 2.5 Nm | 20 in-lb | Pozidriv #2 Combi head |

# QY-9926 Series Circuit Breakers DC Version

## Features and Benefits

- DC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Two Poles (Four Poles Parallel)
- VDE, CE and CCC approved, UL Listed (UL 489A)
- Ratings up to 200A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Optional Shunt Trip
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload

QY Series

| Product Type | Circuit Breaker | Circuit Breaker | Circuit Breaker |
|---|---|---|---|
| Approvals | UL 489A, IEC / EN 60947-2, VDE, CE | UL 489A | CCC |
| Number of Poles | 1,2<br>2,3,4p<br>2p series | 4p series | 1p parallel<br>2p parallel<br>3p parallel |
| Operating Voltages | 80VDC, 125VDC, 250VDC | 600VDC | 80 VDC |
| Minimum Current Rating | 0.1A | 0.5A | 0.1A |
| Maximum Current Rating | 200A | 20A | 200A |
| Interrupting Capacity | 10kA | 2.5kA | 10kA |
| Operating Temperature Range | -40°C - +65°C | | |
| Mounting Options | DIN Rail, Dual Mounting (DIN & Mini), Surface mounting clip, Plug-in terminal | | |
| Tripping Curves | 1, 9, U2, U3, OP | | |

| Breaker QY | Wire Size UL | Wire Size mm² | Torque | Comments |
|---|---|---|---|---|
| 1 Pole & 2 Pole | 2 - AWG | 35mm² | 28 in-lb | Pozi driv #2<br>Screw head |
| | 14-6 – AWG<br>16 – AWG<br>18 – AWG | 2.5 -16mm²<br>1.5mm²<br>0.75mm² | 20 in-lb | |
| 2 Pole Parallel | 14 – 1/0 – AWG | 50mm² | 28 in-lb | Bridge Terminal |
| 3 Pole Parallel | | 70mm² | 50 in-lb | Bridge Terminal |
| 4 Pole Parallel | | 95mm² | 50 in-lb | Bridge Terminal |

## Accessories for QL and QY series

| Type | Order Number |
|---|---|
| Bus-bar (1 pole, insulated, 1 m) | **7940099731*** |
| Bus-bar (2 pole, insulated, 1 m) | **7940099739*** |
| Bus-bar end cap, 1 pole | **7940099740*** |
| Bus-bar end cap, 2 pole | **7940099741*** |
| Power lug, straight (14 mm) | **7940099736*** |
| Power lug, 90° (14 mm) | **7940099737*** |
| Power lug, straight (32 mm) | **7940099746*** |
| Power lug, 90° (32 mm) | **7940115090*** |
| Lock-out handle | **7940099734*** |

* indicates new order number

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit).

The SchS2 accepts DEK, WS and ESG 8/17 marking tags.The part number for adhesive SchS2 is **1720600000**.

# 9926 Series Branch Circuit Breakers - DC Version

## Circuit Breakers
## Hydraulic Magnetic Type

- Single and double pole versions
- U2 trip curve for general purpose applications
- 80 and 125 VDC
- Up to 60A
- Just 13 mm wide, per pole
- Mounts on 35 mm DIN-rail
- UL 489A listed and VDE approval

### Technical Data

| | |
|---|---|
| Voltage | 120/240 VAC, 50/60Hz |
| Current minimum | 0.5A |
| Current maximum | 125A |
| Interrupting capacity | 10,000A |
| Dielectric strength | 1500V, 50/60Hz |
| Insulation resistence | 100 MΩ |
| Operating Life | 10000 mechanical operations |
| Operating temperature | -40...+65°C |
| Wire size* | |
| 1-15A: | 14AWG min., 10AWG max. |
| 20-25A: | 10AWG min. |
| Torque | 20 in.-lb |

### Approvals

UL listed to UL489

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

### Accessories

| Type | Order Number |
|---|---|
| Bus-bar (1 pole, insulated, 1 m) | 7940099731* |
| Bus-bar end cap, 1 pole | 7940099740* |
| Power lug, straight (14 mm) | 7940099736* |
| Power lug, 90° (14 mm) | 7940099737* |
| Power lug, straight (32 mm) | 7940099746* |
| Power lug, 90° (32 mm) | 7940115090* |
| Lock-out handle | 7940099734* |

### 9926 Series Single Pole (80 VDC)

| Type: Single Pole (80 VDC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 0.5 | QY-1-13-DM-U2-0.5 | 7940102623* |
| 1 | QY-1-13-DM-U2-01 | 7940102624* |
| 2 | QY-1-13-DM-U2-02 | 7940102625* |
| 3 | QY-1-13-DM-U2-03 | 7940102626* |
| 4 | QY-1-13-DM-U2-04 | 7940102627* |
| 5 | QY-1-13-DM-U2-05 | 7940102628* |
| 10 | QY-1-13-DM-U2-10 | 9926251910 |
| 15 | QY-1-13-DM-U2-15 | 9926251915 |
| 20 | QY-1-13-DM-U2-20 | 9926251920 |
| 25 | QY-1-13-DM-U2-25 | 7940102635* |
| 30 | QY-1-13-DM-U2-30 | 7940102636* |
| 35 | QY-1-13-DM-U2-35 | 7940102637* |
| 40 | QY-1-13-DM-U2-40 | 7940102638* |
| 45 | QY-1-13-DM-U2-45 | 7940102639* |
| 50 | QY-1-13-DM-U2-50 | 7940102640* |
| 60 | QY-1-13-DM-U2-60 | 9926251960 |
| 80 | QT-1(26)-DM-2-80-B0-80V-10kA (80A) | 7940112429* |
| 100 | QT-1(26)-DM-2-100-B0-80V-10kA | 7940112430* |
| 125 | QT-1(26)-DM-2-125-B0-80V-10kA (125A) | 7940112431* |

### 9926 Series Single Pole (125 VDC)

| Type: Single Pole (125 VDC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QY-1-13-DM-U2-01-B1 | 7940102609* |
| 2 | QY-1-13-DM-U2-02-B1 | 9926251802 |
| 3 | QY-1-13-DM-U2-03-B1 | 7940102611* |
| 4 | QY-1-13-DM-U2-04-B1 | 7940102612* |
| 5 | QY-1-13-DM-U2-05-B1 | 7940102613* |
| 10 | QY-1-13-DM-U2-10-B1 | 7940102615* |
| 15 | QY-1-13-DM-U2-15-B1 | 9926251815 |
| 20 | QY-1-13-DM-U2-20-B1 | 7940102617* |
| 25 | QY-1-13-DM-U2-25-B1 | 7940102618* |
| 30 | QY-1-13-DM-U2-30-B1 | 7940102619* |
| 35 | QY-1-13-DM-U2-35-B1 | 7940112672* |
| 40 | QY-1-13-DM-U2-40-B1 | 7940102620* |
| 45 | QY-1-13-DM-U2-45-B1 | – |
| 50 | QY-1-13-DM-U2-50-B1 | 7940102621* |
| 60 | QY-1-13-DM-U2-60-B1 | 7940102622* |

### 9926 Series Double Pole (80 VDC)

| Type: Double Pole (80 VDC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 5 | QY-2-13-DM-U2-5A | 7940102685* |
| 10 | QY-2-13-DM-U2-10A | 7940102686* |
| 15 | QY-2-13-DM-U2-15A | 7940126751* |
| 16 | QY-2-13-DM-U2-16A | – |
| 20 | QY-2-13-DM-U2-20A | 7940126752* |
| 40 | QY-2-13-DM-U2-40A | 7940115443* |

### 9926 Series Double Pole (125 VDC)

Higher Amp Rating Available

| Type: Double Pole (125 VDC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 5 | QY-2-13-DM-U2-5A-B1 | 7940102677* |
| 10 | QY-2-13-DM-U2-10A-B1 | 7940102678* |
| 15 | QY-2-13-DM-U2-15A-B1 | 7940102679* |
| 20 | QY-2-13-DM-U2-20A-B1 | 7940126750* |
| 30 | QY-2-13-DM-U2-30A-B1 | 7940102681* |
| 32 | QY-2-13-DM-U2-32A-B1 | 7940102682* |
| 40 | QY-2-13-DM-U2-40A-B1 | 7940102683* |
| 50 | QY-2-13-DM-U2-50A-B1 | 7940113341* |
| 60 | QY-2-13-DM-U2-60A-B1 | 7940102684* |

* indicates new order number

# Hydraulic Magnetic Supplementary Protection
# QZ-9926 Series Circuit Breakers AC Version

- AC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Four Poles
- CSA, VDE and CE Approved
- UL Recognized (UL 1077)
- Ratings up to 60A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Current Limiting Capabilities
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload

QZ Series

## Technical Data

| | |
|---|---|
| Voltage | 120/240 VAC, 50/60Hz |
| Current minimum | 0.5A |
| Current maximum | 60A |
| Interrupting capacity | 5 kA @ 277/480 V, 5 kA @ 120 V, 5 kA @ 240 V |
| Dielectric strength | 1500V, 50/60Hz |
| Insulation resistence | 100 MΩ |
| Operating Life | 10000 mechanical operations |
| Operating temperature | -40...+65°C |
| Wire size* | |
| 1-15A: | 14AWG min., 10AWG max. |
| 20-25A: | 10AWG min. |
| Torque | 20 in.-lb |

## Approvals

†UL 1077 Recognized, VDE (EN 60947-2) Approved, cURus (CSA C22.2 No. 235), CE Marked

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

†cURus recognized to UL1077 and C22.2 No. 235

## Accessories

| Type | Order Number |
|---|---|
| Bus-bar (1 pole, insulated, 1 m) | **7940099731*** |
| Bus-bar (2 pole, insulated, 1 m) | **7940099739*** |
| Bus-bar (3 pole, insulated, 1 m) | **7940099738*** |
| Bus-bar end cap, 1 pole | **7940099740*** |
| Bus-bar end cap, 2 pole or 3 pole | **7940099740*** |
| Power lug, straight (14 mm) | **7940099736*** |
| Power lug, 90° (14 mm) | **7940099737*** |
| Power lug, straight (32 mm) | **7940099746*** |
| Power lug, 90° (32 mm) | **7940115090*** |
| Lock-out handle | **7940099734*** |

*** indicates new order number**

**9926 Series**
**Single Pole**

| Type: Single Pole (up to 277 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-1-13-D-2-01 | **7940102590*** |
| 2 | QZ-1-13-D-2-02 | **7940102591*** |
| 3 | QZ-1-13-D-2-03 | **7940102592*** |
| 4 | QZ-1-13-D-2-04 | **7940102593*** |
| 5 | QZ-1-13-D-2-05 | **7940102594*** |
| 6 | QZ-1-13-D-2-06 | **7940102595*** |
| 8 | QZ-1-13-D-2-08 | **7940102597*** |
| 10 | QZ-1-13-D-2-10 | **7940102598*** |
| 15 | QZ-1-13-D-2-15 | **7940126748*** |
| 20 | QZ-1-13-D-2-20 | **7940102600*** |
| 25 | QZ-1-13-D-2-25 | **7940102601*** |
| 35 | QZ-1-13-D-2-35 | **7940102603*** |
| 40 | QZ-1-13-D-2-40 | **7940102604*** |
| 50 | QZ-1-13-D-2-50 | **7940102605*** |
| 60 | QZ-1-13-D-2-60 | **9926251560** |

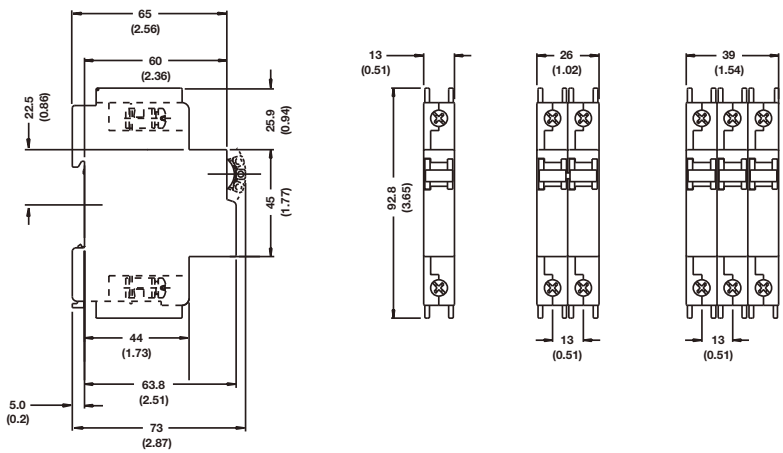
**9926 Series**
**Double Pole**

| Type: Double Pole (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-2-13-D-2-01 | **7940102662*** |
| 2 | QZ-2-13-D-2-02 | **7940102663*** |
| 4 | QZ-2-13-D-2-04 | **7940102665*** |
| 5 | QZ-2-13-D-2-05 | **7940102666*** |
| 6 | QZ-2-13-D-2-06 | **7940102667*** |
| 10 | QZ-2-13-D-2-10 | **7940102668*** |
| 15 | QZ-2-13-D-2-15 | **7940102669*** |
| 20 | QZ-2-13-D-2-20 | **7940102670*** |
| 25 | QZ-2-13-D-2-25 | **7940102671*** |
| 30 | QZ-2-13-D-2-30 | **7940102672*** |
| 35 | QZ-2-13-D-2-35 | **7940102673*** |
| 40 | QZ-2-13-D-2-40 | **7940102674*** |
| 50 | QZ-2-13-D-2-50 | **7940102675*** |
| 60 | QZ-2-13-D-2-60 | **7940102676*** |

**9926 Series**
**Triple Pole**

| Type: Triple Pole (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 10 | QZ-3-13-D-2-10 | **7940102699*** |
| 15 | QZ-3-13-D-2-15 | **7940102700*** |
| 20 | QZ-3-13-D-2-20 | **7940102702*** |
| 25 | QZ-3-13-D-2-25 | **7940102703*** |
| 30 | QZ-3-13-D-2-30 | **7940102704*** |
| 40 | QZ-3-13-D-2-40 | **7940102705*** |
| 50 | QZ-3-13-D-2-50 | **7940102706*** |
| 60 | QZ-3-13-D-2-60 | **7940102707*** |

**Dimension Diagrams in mm (in.)**



# 9926 Series Supplementary Breakers with Contacts

## Circuit Breakers Auxiliary switch, Trip alarm, Combination of both

- AC Voltages 277/480V
- Trip curve 2 for general purpose applications
- UL 1077 recognized
- VDE approved and CE marked
- Just 13 mm wide
- Mounts to 35 mm DIN-rail
- Factory fitted auxiliary or trip alarm
- Single, double and triple pole versions

### Technical Data

| | |
|---|---|
| Voltage | 120/240 VAC, 50/60Hz |
| Current minimum | 0.5A |
| Current maximum | 60A |
| Interrupting capacity | 5 kA @ 277/480 V,<br>5 kA @ 120 V,<br>5 kA @ 240 V |
| Dielectric strength | 1500 V, 50/60 Hz |
| Insulation resistence | 100 MΩ |
| Operating Life | 10000 mechanical operations |
| Operating temperature | -40...+65°C |
| Wire size* | |
| 0.5-15A: | 14AWG min., 10AWG max. |
| 20-25A: | 10AWG min. |
| Torque | 20 in.-lb |

### Approvals

†UL 1077 Recognized, VDE (EN 60947-2) Approved, cURus (CSA C22.2 No. 235), CE Marked

‡UL 489 listed
(5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)
IEC 60947-5-1 Approved
(5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags.The part number for adhesive SchS2 is **1720600000.**

### 9926 Series Single Pole w/ Auxiliary Contact‡

| Type: Single Pole Aux (up to 277 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-A-1-13-D-2-01 | – |
| 2 | QZ-A-1-13-D-2-02 | – |
| 5 | QZ-A-1-13-D-2-05 | **7940102716*** |
| 10 | QZ-A-1-13-D-2-10 | **7940114062*** |
| 15 | QZ-A-1-13-D-2-15 | **7940114063*** |
| 20 | QZ-A-1-13-D-2-20 | – |
| 25 | QZ-A-1-13-D-2-25 | **7940114064*** |

### 9926 Series Single Pole Trip (Alarm Contact)

| Type: Single Pole Trip (up to 277 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-T-1-13-D-2-01 | **7940114072*** |
| 2 | QZ-T-1-13-D-2-02 | **7940114073*** |
| 5 | QZ-T-1-13-D-2-05 | **7940114074*** |
| 10 | QZ-T-1-13-D-2-10 | **7940114062*** |
| 15 | QZ-T-1-13-D-2-15 | **7940114063*** |
| 20 | QZ-T-1-13-D-2-20 | **7940114077*** |
| 25 | QZ-T-1-13-D-2-25 | **7940114064*** |

### 9926 Series Single Pole Combination (Auxiliary & Alarm Contact)‡

| Type: Single Pole Combo (up to 277 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-AT-1-13-D-2-01 | **7940114093*** |
| 2 | QZ-AT-1-13-D-2-02 | **7940114094*** |
| 5 | QZ-AT-1-13-D-2-05 | **7940114095*** |
| 10 | QZ-AT-1-13-D-2-10 | **7940114096*** |
| 15 | QZ-AT-1-13-D-2-15 | **7940114097*** |
| 20 | QZ-AT-1-13-D-2-20 | **7940114098*** |
| 25 | QZ-AT-1-13-D-2-25 | **7940114099*** |

### 9926 Series Double Pole w/ Auxiliary Contact‡

| Type: Double Pole Aux (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-A-2-13-D-2-01 | **7940102723*** |
| 2 | QZ-A-2-13-D-2-02 | – |
| 5 | QZ-A-2-13-D-2-05 | – |
| 10 | QZ-A-2-13-D-2-10 | – |
| 15 | QZ-A-2-13-D-2-15 | – |
| 20 | QZ-A-2-13-D-2-20 | – |
| 25 | QZ-A-2-13-D-2-25 | **7940114065*** |

### 9926 Series Double Pole Trip (Alarm Contact)

| Type: Double Pole Trip (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-T-2-13-D-2-01 | **7940114079*** |
| 2 | QZ-T-2-13-D-2-02 | **7940114080*** |
| 5 | QZ-T-2-13-D-2-05 | **7940114081*** |
| 10 | QZ-T-2-13-D-2-10 | **7940114082*** |
| 15 | QZ-T-2-13-D-2-15 | **7940114083*** |
| 20 | QZ-T-2-13-D-2-20 | **7940114084*** |
| 25 | QZ-T-2-13-D-2-25 | **7940114085*** |

### 9926 Series Double Pole Combination (Auxiliary & Alarm Contact)‡

| Type: Double Pole Combo (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-AT-2-13-D-2-01 | – |
| 2 | QZ-AT-2-13-D-2-02 | – |
| 5 | QZ-AT-2-13-D-2-05 | – |
| 10 | QZ-AT-2-13-D-2-10 | – |
| 15 | QZ-AT-2-13-D-2-15 | **7940114100*** |
| 20 | QZ-AT-2-13-D-2-20 | **7940114101*** |
| 25 | QZ-AT-2-13-D-2-25 | **7940114102*** |

### 9926 Series Triple Pole w/ Auxiliary Contact‡

| Type: Triple Pole Aux (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-A-3-13-D-2-01 | **7940114066*** |
| 2 | QZ-A-3-13-D-2-02 | **7940114067*** |
| 5 | QZ-A-3-13-D-2-05 | – |
| 10 | QZ-A-3-13-D-2-10 | **7940114068*** |
| 15 | QZ-A-3-13-D-2-15 | **7940114069*** |
| 20 | QZ-A-3-13-D-2-20 | **7940114070*** |
| 25 | QZ-A-3-13-D-2-25 | **7940114071*** |

### 9926 Series Triple Pole Trip (Alarm Contact)

| Type: Triple Pole Trip (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-T-3-13-D-2-01 | **7940114086*** |
| 2 | QZ-T-3-13-D-2-02 | **7940114087*** |
| 5 | QZ-T-3-13-D-2-05 | **7940114088*** |
| 10 | QZ-T-3-13-D-2-10 | **7940114089*** |
| 15 | QZ-T-3-13-D-2-15 | **7940114090*** |
| 20 | QZ-T-3-13-D-2-20 | **7940114091*** |
| 25 | QZ-T-3-13-D-2-25 | **7940114092*** |

### 9926 Series Triple Pole Combination (Auxiliary & Alarm Contact)‡

| Type: Triple Pole Combo (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number |
| 1 | QZ-AT-3-13-D-2-01 | **7940114103*** |
| 2 | QZ-AT-3-13-D-2-02 | **7940114104*** |
| 5 | QZ-AT-3-13-D-2-05 | **7940114105*** |
| 10 | QZ-AT-3-13-D-2-10 | **7940114106*** |
| 15 | QZ-AT-3-13-D-2-15 | **7940114107*** |
| 20 | QZ-AT-3-13-D-2-20 | **7940114108*** |
| 25 | QZ-AT-3-13-D-2-25 | **7940114109*** |

*** indicates new order number**

# QF-9926 Series Circuit Breakers Ground Fault Current Interrupt Version

## Features

- CE approved
- UL1077 and UL1053 recognized
- Small frame size (26mm wide)
- Single pole plus switched neutral ground leakage protection
- Trip point is unaffected by ambient temperature
- Current ratings up to 50A
- Trip indication (mid-trip handle position)
- Trip curve 2 for general purpose applications

**9926 Series**
**GFCI**

### Technical Data

| | |
|---|---|
| Product Type | QF17A |
| Standard Ampere Ratings (A) | 5 to 63A |
| Sensitivity (mA) | 30 (CE) / 22 (UL) |
| Number of Poles | 1 + N |
| Equipment Type | Earth Leakage/GFCS |
| Rated Voltage (V) | 230 (CE) / 240 (UL) |
| Rated Interrupting/ | 5 kA |
| Withstand Capacity (kA) | - |
| Weight (kg) | 0,26 |
| Tripping Curves(1) (standard) | 2 |
| Operating Temperature | -40 to +60ºC |

| Type: Triple Pole (up to 480 VAC) | | |
|---|---|---|
| Current Ratings (amps) | Description | Order Number. |
| 5 | QF17A2505 - CB W/GFI | 7940102728* |
| 10 | QF17A2510 - CB W/GFI | 7940102729* |
| 15 | QF17A2515 - CB W/GFI | 7940102730* |
| 20 | QF17A2520 - CB W/GFI | 7940102731* |
| 25 | QF17A2525 - CB W/GFI | 7940102732* |
| 30 | QF17A2530 - CB W/GFI | 7940102733* |
| 50 | QF17A2550 - CB W/GFI | 7940110283* |

# Supplemental Circuit Protection

### CB 4200 Series

- Push button style trip/reset function
- UL 1077 recognized
- CSA C22.2 No. 235
- Available in single- and double-pole versions; 12.5mm per pole
- Applicable current range: 0.10A - 16.0A, up to 65 VDC and 250 VAC

CB 4200 Series

CB 4200 Series 2 Pole

| Internal Resistance Per Pole (Ohms) | Current | Single Pole | Double Pole |
|---|---|---|---|
| 131.0 | 0.1 A | 7940125376* | 7940116356* |
| 40.0 | 0.2 A | 7940102182* | 2853650000* |
| 19.3 | 0.3 A | 7940102288* | 7940116367* |
| 10.40 | 0.4 A | 7940102266* | 7940116369* |
| 7.1 | 0.5 A | 7940125372* | 7940102279* |
| 4.3 | 0.6 A | 7940102267* | 7940116371* |
| 3.58 | 0.7 A | 7940102277* | 7940116369* |
| 2.5 | 0.8 A | 7940125814* | 7940116408* |
| 1.67 | 1 A | — | 7940102280* |
| 1.22 | 1.2 A | 7940102156* | 7940116411* |
| 0.61 | 1.5 A | 7940125374* | 7940116413* |
| 0.55 | 1.8 A | 7940110250* | 7940116375* |
| 0.38 | 2 A | 7940126716* | 7940102281* |
| 0.24 | 2.5 A | 7940102159* | 7940102282* |
| 0.19 | 3 A | 7940126717* | 7940102283* |
| 0.16 | 3.5 A | 7940102268* | 7940116379* |

| Internal Resistance Per Pole (Ohms) | Current | Single Pole | Double Pole |
|---|---|---|---|
| 0.09 | 4 A | 7940125377* | 7940102287* |
| 0.09 | 4.5 A | 7940125376* | 7940116378* |
| 0.061 | 5 A | 7940125375* | 7940126723* |
| 0.07 | 5.5 A | 7940110236* | 7940116379* |
| 0.041 | 6 A | 7940126719* | 7940102271* |
| 0.04 | 6.5 A | 7940102245* | 7940116381* |
| 0.034 | 7 A | 7940126720* | 7940116383* |
| 0.02 | 8 A | 7940102172* | 7940102187* |
| 0.02 | 9 A | 7940102186* | 7940116385* |
| <0.02 | 10 A | 7940126718* | 7940102285* |
| <0.02 | 11 A | 7940110251* | 7940116386* |
| <0.02 | 12 A | 7940125378* | 7940102272* |
| <0.02 | 13 A | 7940110252* | 9124453500* |
| <0.02 | 14 A | 7940110237* | 7940116389* |
| <0.02 | 15 A | 7940102165* | 7940102286* |
| <0.02 | 16 A | 9124213500 | 7940102273* |

* indicates new order number

# Supplemental Circuit Protection

### CB 2200 Series

- Lever style trip/reset breaker
- UL 1077 recognized
- CSA C22.2 No. 235
- Available in single-, double-, and triple-pole versions; 12.5mm per pole
- Applicable current ranges: 0.05A...32.0A, up to 65 VDC, 277/480 VAC
- Available in normally open (N/O) and normally closed (N/C) auxiliary contacts

CB 2200 Series

| Current | Single Pole Order Number | Double Pole Order Number | Triple Pole Order Number | Single Pole N/O Aux. Order Number | Double Pole** N/O-N/C Order Number | Triple Pole** N/O-N/C Order Number |
|---|---|---|---|---|---|---|
| 0.1 A | — | — | — | — | 7940116805* | 7940116818* |
| 0.2 A | 7940112290* | — | — | 7940116797* | 7940116806* | 7940116820* |
| 0.3 A | — | — | — | 7940116799* | 7940116807* | 7940116821* |
| 0.4 A | — | — | — | 7940102443* | 7940116808* | 7940116822* |
| 0.5 A | 7940102446* | — | — | 7940102448* | 7940116809* | 7940116823* |
| 0.6 A | 7940102449* | — | — | 7940116801* | 7940116810* | 7940116824* |
| 0.8 A | 7940102450* | — | — | 7940116802* | 7940116811* | 7940116825* |
| 1 A | 7940102452* | — | — | 7940102453* | — | 7940116826* |
| 1.5 A | 7940117673* | — | — | 7940116803* | 7940116813* | 7940116827* |
| 2 A | 7940102457* | — | — | 7940102458* | — | 7940116828* |
| 2.5 A | — | — | — | 7940102461* | — | 7940116829* |
| 3 A | 7940102463* | — | — | 7940102464* | — | 7940116830* |
| 4 A | — | — | — | 7940102466* | 7940102480* | 7940116831* |
| 5 A | 7940102470* | — | — | 7940102471* | 7940102481* | — |
| 6 A | 7940117674* | — | — | 7940102474* | 7940116816* | 7940116832* |
| 8 A | 7940102476* | — | — | 7940102477* | 7940116817* | 7940116833* |
| 10 A | 7940102502* | 7940102520* | — | 7940102504* | 7940102521* | — |
| 12 A | — | 7940116852* | — | — | 7940116853* | 7940102525* |
| 15 A | 7940102508* | — | 7940102526* | 7940102509* | — | 7940116859* |
| 16 A | 7940117677* | 7940117678* | — | 7940102510* | 7940117678* | 7940102527* |
| 18 A | — | — | — | 7940116848* | — | 7940116860* |
| 20 A | 7940102512* | 7940102523* | 7940102529* | 7940102513* | 7940102524* | 7940116862* |
| 25 A | 7940102515* | — | 7940117680* | 7940116850* | — | — |
| 32 A | 7940102518* | 7940117679* | — | 7940102519* | — | — |

* indicates new order number

**All Order Numbers with N/C Auxiliary Contacts on each pole when the main breaker, the contact is open (in the OFF position)

# Electronic Circuit Protection

## ESX10-T

- Selective load protection, electronic trip characteristics
- Active current limitation for safe connection of capacitive loads up to 20,000 µF and on overload/short circuit
- Current ratings 0.5 A...12 A
- Reliable overload disconnection with 1.1 x $I_n$ plus, even with long load lines or small cable cross sections
- Manual ON/OFF button (S1)
- Control input IN+ for remote ON/OFF signal (option)
- Electronic reset input RE (option)
- Clear status and failure indication through LED, status output SF or Si contact F
- Integral fail-safe element adjusted to current rating
- Width per unit only 12.5 mm
- Rail mounting
- Ease of wiring through busbar LINE+ and 0 V as well as signal bars and bridges
- UL/CSA Hazardous area approved – Class 1, Div 2

ESX10-T

### Approvals

| Authority | Voltage Rating | Current Ratings |
|---|---|---|
| UL2367 (E306740) | 24 VDC | 0.5...12 A |
| UL1604 (E322549)<br>(class 1, div. 2, group A, B, C, D) | 24 VDC | 0.5...12 A |
| UL508/ cUL 508 | 24 VDC | 0.5...12 A |
| CSA file 165971:<br>CSA C22.2 No: 213 (class I, div. 2)<br>Groups A, B, C, D, T5 | 24 VDC | 0.5...12 A |
| CSA C22.2 No: 142 | 24 VDC | 0.5...12 A |
| Class 2<br>Meets requirements for Class 2 current limitation ESX10-T... 0.5 A / 1 A / 2 A / 3 A | | |

### Ordering Information

| Version | Signal Input | | | Signal Output | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Signal Contact | | | Status Output | | |
| | Without Signal Input | Control Input ON/ OFF Reset | Remote Reset | Without Signal Output | Single Signal N/O (normally open NO) | Single Signal N/C (normally closed NC) | Without Signal Output | Status OUT Positive 24V = OK | Status OUT ØV = OK |
| ESX10-TA-100 | x | | | x | | | x | | |
| ESX10-TB-114 | | x | | | | | | x | |
| ESX10-TB-124 | | | x | x | | | | x | |

| Current Rating (amps) | Circuit Protection Order Number | Current Rating (amps) | Control Input Order Number | Current Rating (amps) | Reset Input Order Number |
|---|---|---|---|---|---|
| **ESX10-TA-100** | | **ESX10-TB-114**[1] | | **ESX10-TB-124**[2] | |
| 0.5 | **6720005305** | 0.5 | **7940100380*** | 0.5 | **7940112773*** |
| 1 | **7940100338*** | 1 | **7940100381*** | 1 | **7940100390*** |
| 2 | **7940100339*** | 2 | **7940100382*** | 2 | **7940126645*** |
| 3 | **7940100340*** | 3 | **6720005363** | 3 | **7940126645*** |
| 4 | **7940100341*** | 4 | **6720005364** | 4 | **7940100393*** |
| 6 | **7940100343*** | 6 | **7940100385*** | 6 | **7940100394*** |
| 8 | **7940100344*** | 8 | **7940100386*** | 8 | **7940100395*** |
| 10 | **7940100345*** | 10 | **7940100388*** | 10 | **7940100397*** |
| 12 | **7940100346*** | 12 | **7940100389*** | 12 | **7940100398*** |

[1] Control force input on/off
[2] Reset input only to reset under fault conditions

* indicates new order number

# Electronic Load Monitoring

topGUARD / maxGUARD: DC Circuit Protection

## Intelligent and innovative solutions for reliable load monitoring

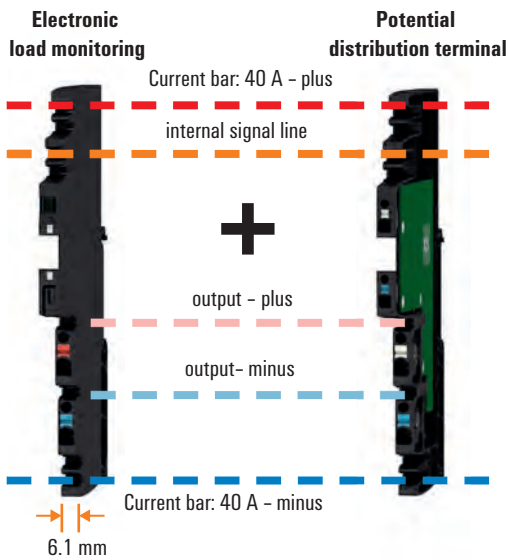
Modern machines and plants require load monitoring systems that are intelligent, efficient and reliable. Our portfolio of modular solutions offer high degrees of flexibility for a wide range of applications, while saving time and space during installation.

# topGUARD and maxGUARD

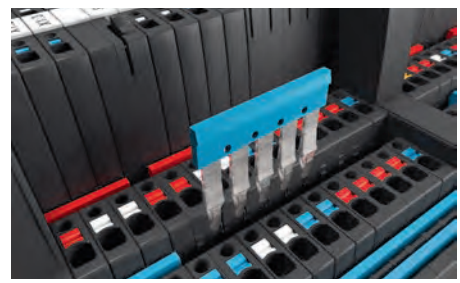
## The innovative Control Voltage Distribution with protection system to 24VDC lines

New ways in the control current distribution increase the efficiency in the operation of machines and plants. The combination of load monitoring and potential distribution terminals saves up to 50% space and up to 20% wiring costs, while the free combinability of numerous single-channel and four-channel variants optimizes material costs. Benefit from the advantages of a modular system that offers you high flexibility and adapts optimally to any application.

**Combination of load monitoring and potential distribution**



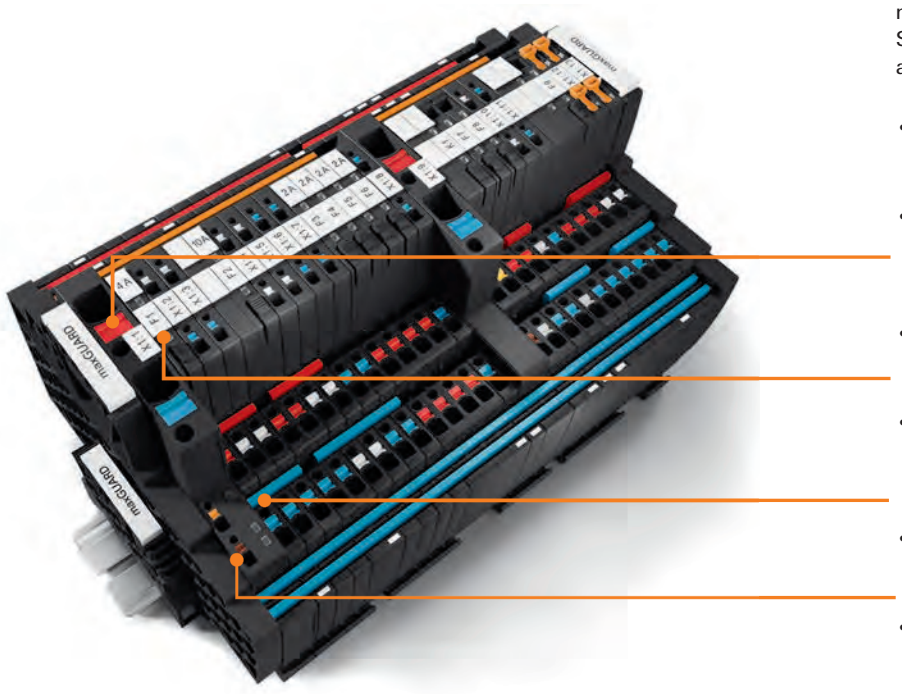

- Three main connection channels: positive, negative and internal signals
- Simple to increase the number of contacts thanks to cross-connection option in the potential distribution terminals



# maxGUARD at a Glance

## Protection with remote alarm and remote reset

New approvals: Marine, Class 2, Ex



maxGUARD is a customizable 24Vdc Control Distribution Solution. Freely combination of load monitoring devices and terminal bocks provides application flexibility.

- EachElectronic Load Monitor (ELM)of maxGUARD is a Solid-State Overcurrent Protector.
- Main Voltage is applied in Feed-In Module (FIM), which spreads the current through Up and Down cross-connectors to Electronic Load Monitors (ELM).
- Reset of a trip condition can be made locally (push-button on the ELM).
- The ELM can be connected directly to a load or can increase the number of connections with terminal blocks and intermediated cross-connectors.
- The ELM can also inform their status (tripped or not) to the Feed-In Module (FIM).
- A Controlled Feed-In Module (FIM-C) can generate a remote alarm and can reset the ELM remotely.

**Test points for easy troubleshooting**

**Cross-connectors save time (up to 20%), space and offer the best contact.**

**Practical disconnecting lever: For testing and checking**

**Electronic Load Monitors: Best in class protection with footprint of 6mm**
Space saving of up to 50%

**Can be used in a customized way**
The sheer range of variants and the very different potential distribution terminals and additional components enable customized solutions at all times.

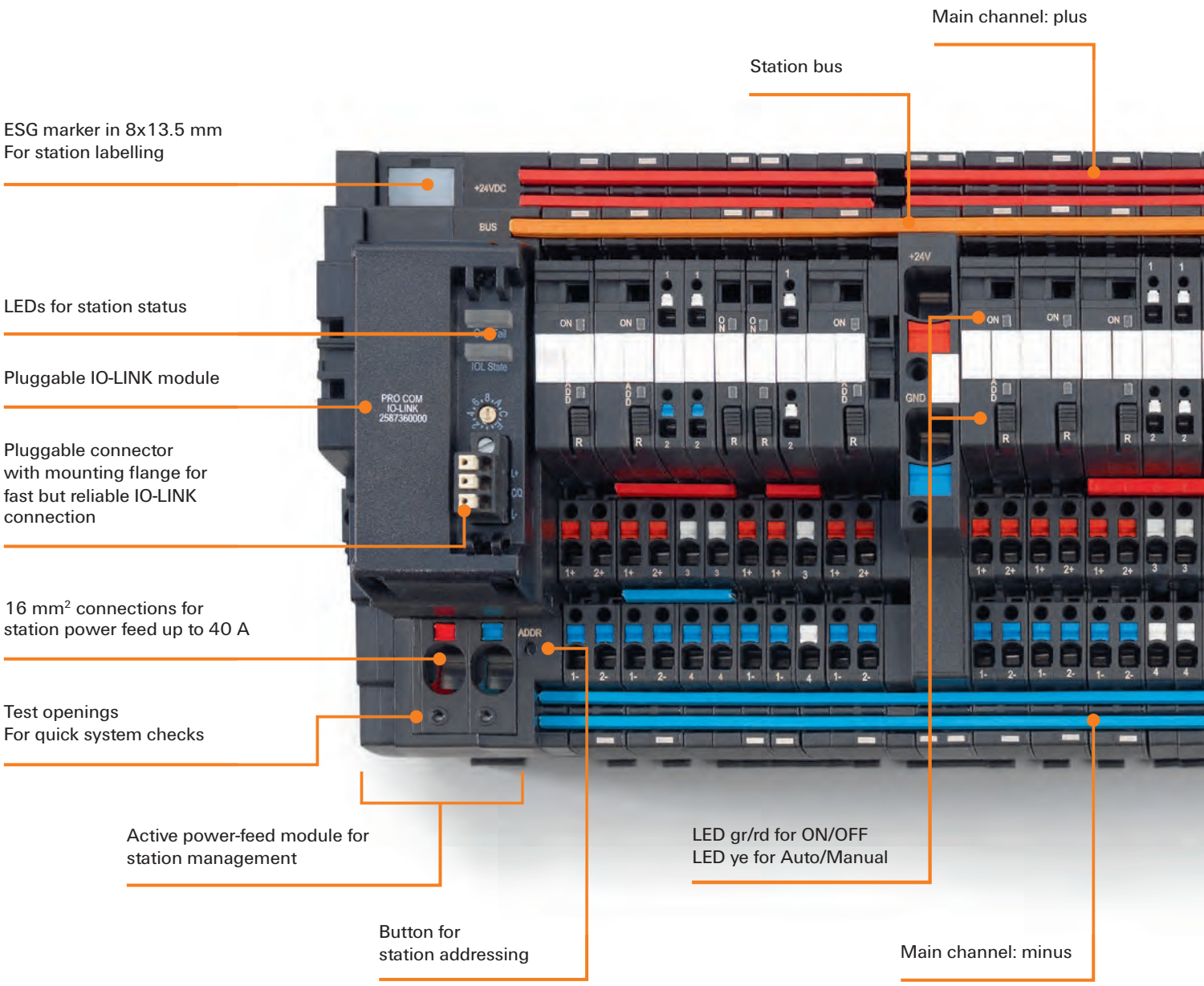
**Extreme ease of servicing**
Sophisticated operating, testing and connection elements permit safe access to all voltage potentials and load circuits during commissioning and maintenance.

# Intelligent load monitoring and potential distribution

## topGUARD – control voltage distribution on a new level

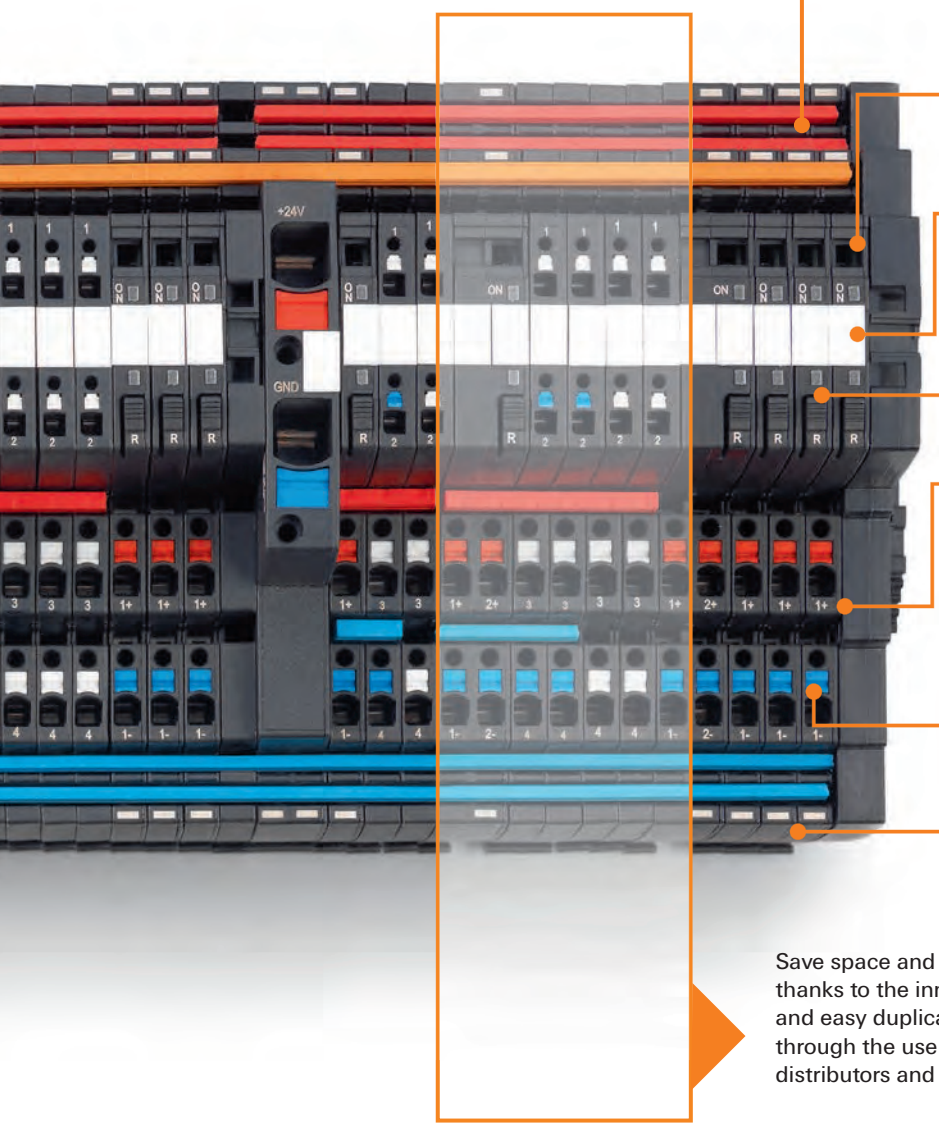
### Features

- Pluggable IO-LINK communication module
- Full channel monitoring: ON/OFF, Triggered, Fault
- Access to all channel currents and output voltages
- Programmable tripping current and free selection of characteristic curves
- Remote access to all load monitoring: ON/OFF; Reset
- Pre-selectable switch-on delay, alarm and early warning values
- Modular and flexible with 3 load monitoring types: 1-6 A (6.1 mm), 4-12 A (12.2 mm), 1-4 A class 2 (6.1 mm)
- Extended temperature range: -25...+70°C



**topGUARD – with the advantages of the maxGUARD concept**

- Innovative integrated potential distribution
- Extremely space-saving 6.1 mm pitch
- Modular concept saves unused fuse channels
- Service-friendly and expandable at any time




Station expansion made simple by dual shaft channels for plus, minus and station bus

Additional WS x/6 markers for marking the tripping current

WS x/6 or endless markers for quick application of the equipment label

2 mm test sockets on all connection elements allow easy access to all potentials during troubleshooting

Unique marking of the connection terminal

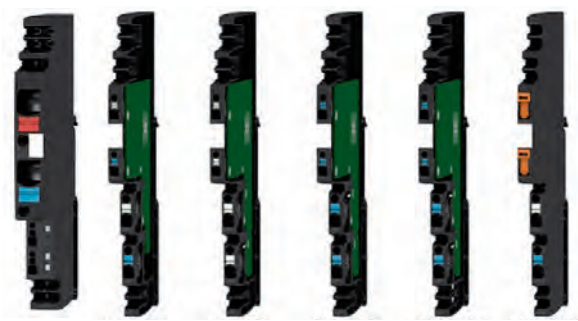
Coloured pusher for easy potential tracking
Red - active load monitoring output (plus)
White - distribution potential (fused plus)
Blue – general minus

Marking of dual contacts for expansion purposes by means of transverse bridges

Save space and time and avoid wiring errors – thanks to the innovative maxGUARD concept. Fast and easy duplication of load circuit connections through the use of precisely fitting potential distributors and ready-made bridges.

| topGUARD Active Modules | Description | Type | Order Number |
|---|---|---|---|
| | Feed-In Module | TGD FIM-C | 2625000000 |
| | Electronic Load Monitor 1 up to 6A | TGD ELM-6 | 2624980000 |
| | Electronic Load Monitor 4 up to 12A | TGD ELM-12 | 2624990000 |
| | Electronic Load Monitor 1 up to 4A Class 2 Power | TGD ELM-4 CL2 | 2656670000 |
| • IO-Link-capable load monitoring<br>• Integrated potential distributor<br>• Modular overall system | Communication Module IO-Link | PRO COM IO-LINK | 2587360000 |

| | Passive Power Feed-In Module | Potential distributor |
|---|---|---|
| | AMG FIM-0: Passive Power Feed-In Module module (add power at middle of the line) | AMG OD: 2 x Plus, 2 x Minus<br>AMG PD: 4 x Plus<br>AMG MD: 4 x Minus<br>AMG XMD: 4 x Minus (direct)<br>AMG DIS: Manual disconnection |

| topGUARD and maxGUARD Passive Modules | Type | Order Number | Type | Order Number |
|---|---|---|---|---|
| AMG FIM-O AMG OD AMG PD AMG MD AMG XMD AMG DIS  | AMG FIM-0 | 2081870000 | AMG OD | 2122910000 |
| | | | AMG OD EX | 2495090000 |
| | | | AMG PD | 2122920000 |
| | | | AMG PD EX | 2495070000 |
| | | | AMG MD | 2122930000 |
| | | | AMG MD EX | 2495040000 |
| | | | AMG XMD | 2122940000 |
| | | | AMG XMD EX | 2495080000 |
| | | | AMG DIS | 2123050000 |
| | | | AMG DIS EX | 2495100000 |

| | Power Feed-In, control and alarm module | Load monitoring (fixed value) | Load monitoring (adjustable)<br>Load monitoring (fixed value) Class 2 |
|---|---|---|---|
| | FIM: Passive or active Power Feed In Module module with reset and alarm function.<br>CM: Control module + extra control function.<br>AM: Alarm module with potential-free contacts for the "Alarm" and "1>90%" signals. | ELM...F: Electronic Load Monitoring with fixed current.<br>ELM...F EX: Electronic load monitoring with fixed current for ATEX Zone 2. | ELM: Electronic Load Monitoring with adjustable triggering current.<br>ELM... EX: Electronic Load Monitoring with adjustable triggering current for ATEX Zone 2.<br>ELM..D CO: Electronic Load Monitoring with adjustable triggering current and output relays.<br>ELM...F CL2: Electronic load monitoring with fixed rated current Class 2 Power. |

| maxGUARD Modules | Type | Order Number | Type | Order Number | Type | Order Number |
|---|---|---|---|---|---|---|
| | AMG FIM-0 | 2081870000 | AMG ELM-1F | 2080420000 | AMG ELM-6 | 2080360000 |
| | AMG FIM-C | 2081880000 | AMG ELM-1F EX | 2082040000 | AMG ELM-6 EX | 2082000000 |
| | AMG FIM-0 EX | 2082530000 | AMG ELM-2F | 2080480000 | AMG ELM-12 | 2080410000 |
| | AMG FIM-C EX | 2082540000 | AMG ELM-2F EX | 2082050000 | AMG ELM-12 EX | 2082010000 |
| | AMG CM | 2081900000 | AMG ELM-4F | 2080490000 | AMG ELM-18 | 2859800000 |
| | AMG CM EX | 2083360000 | AMG ELM-4F EX | 2082060000 | AMG ELM-6D CO | 2082440000 |
| | AMG AM | 2081890000 | AMG ELM-6F | 2080500000 | AMG ELM-10D CO | 2082470000 |
| | AMG AM CO | 2082770000 | AMG ELM-6F EX | 2082310000 | AMG ELM-1F CL2 | 2491270000 |
| | | | AMG ELM-8F | 2080600000 | AMG ELM-2F CL2 | 2491280000 |
| | | | AMG ELM-8F EX | 2082320000 | AMG ELM-4F CL2 | 2491290000 |
| | | | AMG ELM-10F | 2080650000 | | |
| | | | AMG ELM-10F EX | 2082430000 | | |

# Accessories

## maxGUARD – accessories

### Cross-connector orange

| | Type | Qty | Order Number |
|---|---|---|---|
| 2-pole | ZQV 4N/2 | 60 | **1527930000** |
| 3-pole | ZQV 4N/3 | 60 | **1527940000** |
| 4-pole | ZQV 4N/4 | 60 | **1527970000** |
| 5-pole | ZQV 4N/5 | 60 | **1527980000** |
| 6-pole | ZQV 4N/6 | 20 | **1527990000** |
| 7-pole | ZQV 4N/7 | 20 | **1528020000** |
| 8-pole | ZQV 4N/8 | 20 | **1528030000** |
| 9-pole | ZQV 4N/9 | 20 | **1528070000** |
| 10-pole | ZQV 4N/10 | 20 | **1528090000** |
| 50-pole | ZQV 4N/50 | 5 | **1528130000** |

### Cross-connector blue

| Type | Qty | Order Number |
|---|---|---|
| ZQV 4N/2 BL | 60 | **1528040000** |
| ZQV 4N/3 BL | 60 | **1528080000** |
| ZQV 4N/4 BL | 60 | **1528120000** |
| ZQV 4N/5 BL | 60 | **1528140000** |
| ZQV 4N/6 BL | 20 | **1528170000** |
| ZQV 4N/7 BL | 20 | **1528180000** |
| ZQV 4N/8 BL | 20 | **1528190000** |
| ZQV 4N/9 BL | 20 | **1528220000** |
| ZQV 4N/10 BL | 20 | **1528230000** |
| ZQV 4N/50 BL | 5 | **1528240000** |

### Cross-connector red

| Type | Qty | Order Number |
|---|---|---|
| ZQV 4N/2 RD | 60 | **2460450000** |
| ZQV 4N/3 RD | 60 | **2460810000** |
| ZQV 4N/4 RD | 60 | **2460800000** |
| ZQV 4N/5 RD | 60 | **2460790000** |
| ZQV 4N/6 RD | 20 | **2460780000** |
| ZQV 4N/7 RD | 20 | **2460770000** |
| ZQV 4N/8 RD | 20 | **2460760000** |
| ZQV 4N/9 RD | 20 | **2460750000** |
| ZQV 4N/10 RD | 20 | **2460740000** |
| ZQV 4N/50 RD | 5 | **2460730000** |

## maxGUARD – accessories

### Endplate and separation plate

| Type | Qty | Order Number |
|---|---|---|
| AMG PP | 40 | **2123000000** |
| AMG EP 2010 | 30 | **2495380000** |
| AMG EP KIT | 1 | **2500760000** |

### End brackets

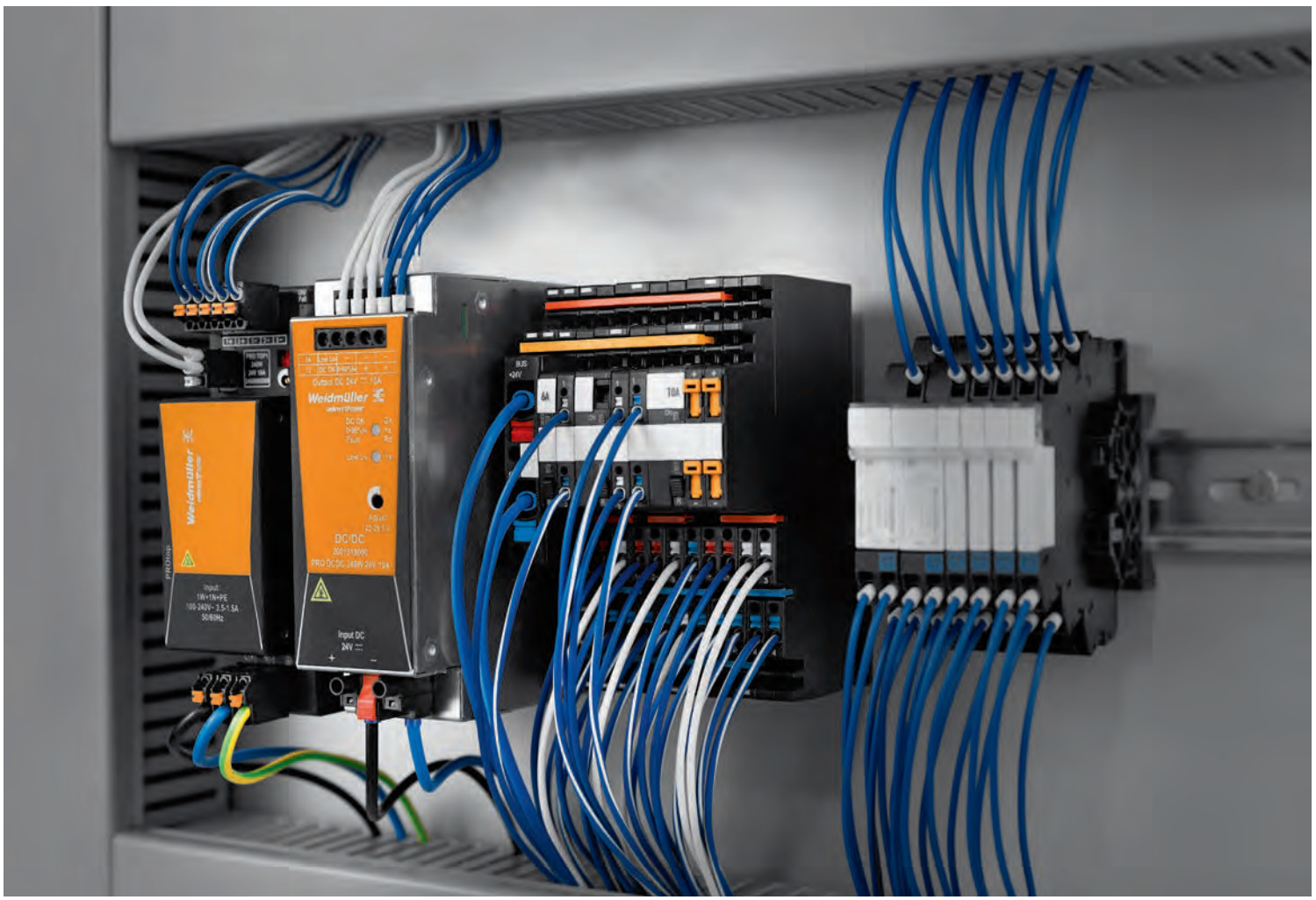
| Type | Qty | Order Number |
|---|---|---|
| WEW 35/2 SW | 100 | **1061210000** |
| WEW 35/2 V0 GF SW | 100 | **1479000000** |

### Cutting tool for ZQV

| Type | Qty | Order Number |
|---|---|---|
| KT 14 | 1 | **1157820000** |

# Power Supplies

Electronics




Power supplies from Weidmuller have long since proved their worth in supplying electrical modules.
They can therefore be used safely in harsh industrial environments, in small businesses and in living areas, and have been granted international approvals. Weidmuller provides power supplies and additional components for industrial applications:

- Switched-mode power supply units
- DC/DC converters
- UPS control modules
- Electronic fuses

# INSTA-POWER

## A permanent power supply for buildings and machines

Class 1 Div. 2 APPROVED

The single-phase INSTA-POWER switched mode power supplies are characterized by a large power spectrum, a compact design and a good price-performance ratio. They are suitable for temperature ranges from -25° C (77° F) to +70° C (158° F), have international approvals and a wide range voltage input.

### Features

- Extremely compact and particularly energy-efficient
- Available in nine variants with 5, 12, 24 and 48 V DC output voltage
- Universally applicable thanks to international approvals (cCSAus (UL508), Class1 Div. 2, and NEC Class power output 2 until 90W)
- Flexible on mounting rails or wall mountable at the Switch cabinet
- Fast installation with PUSH IN connection technology
- Main application: low depth electrical panels or Class 2 power circuits

| | Input | | Output | | Dimensions | |
|---|---|---|---|---|---|---|
| **Type** | **Input AC** | **Input DC** | **Rated Voltage DC** | **Adjustable Output** | **Width x Height x Depth (mm)** | **Order Number** |
| PRO INSTA 30W 5V 6A | 85...264 V AC | 95...370 V DC | 5 V DC / 6 A | 4 - 7 V DC | 72 x 90 x 60 | **2580210000** |
| PRO INSTA 30W 12V 2.6A | 85...264 V AC | 95...370 V DC | 12 V DC / 2.6 A | 9 - 16 VDC | 54 x 90 x 60 | **2580220000** |
| PRO INSTA 60W 12V 5A | 85...264 V AC | 95...370 V DC | 12 V DC / 5 A | 9 - 16 V DC | 72 x 90 x 60 | **2580240000** |
| PRO INSTA 16W 24V 0.7A | 85...264 V AC | 95...370 V DC | 24 V DC / 0.7 A | 22 -28 V DC | 22,5 x 90 x 60 | **2580180000** |
| PRO INSTA 30W 24V 1.3A | 85...264 V AC | 95...370 V DC | 24 V DC / 1.3 A | 22 -28 V DC | 72 x 90 x 60 | **2580190000** |
| PRO INSTA 60W 24V 2.5A | 85...264 V AC | 95...370 V DC | 24 V DC / 2.5 A | 22 -28 V DC | 72 x 90 x 60 | **2580230000** |
| PRO INSTA 90W 24V 3.8A | 85...264 V AC | 95...370 V DC | 24 V DC / 4 A | 22 -28 V DC | 90 x 90 x 60 | **2580250000** |
| PRO INSTA 96W 24V 4A | 85...264 V AC | 95...370 V DC | 24 V DC / 3.8 A | 22 -28 V DC | 90 x 90 x 60 | **2580260000** |
| PRO INSTA 96W 48V 2A | 85...264 V AC | 95...370 V DC | 48 V DC / 2 A | 35 - 56 V DC | 90 x 90 x 60 | **2580270000** |

### Approvals

| | |
|---|---|
| c SP us | according UL508 and CSA 22 |
| CE | Class 1 Div. 2<br>Class 2 Power (except PRO INSTA 96W 24V 4A and PRO INSTA 96W 48V 2A) |

# Robust and Reliable PROBAS Power Supply

## Optimal combination of all basic functions in a compact design

High performance, compact design and a good price-performance ratio are the main characteristics of the new PROBAS power supplies. The product family comprises 12 variants with 5, 12, 24 or 48 V DC output voltage and a wide-range input. All units have comprehensive safety functions and are internationally approved. Due to compatibility with our electronic fuses, DC UPS and diode modules, they are also suitable for setting up power management systems.

- Compact design with flexible mounting (DIN rail or wall)
- High efficiency up to 95%
- Operates in a wide temperature range from –25°C to 70°C
- International approvals (cULus, NEC Class2 and cCSAus)

**Approvals**

NEC CLASS 2

for units up to 90W

| | Input | | Output | | Dimensions | |
|---|---|---|---|---|---|---|
| **Type** | **Input Voltage AC** | **Input Voltage DC** | **Output Nominal Voltage / Current (DC)** | **Adjustable Output** | **Width X Height X Depth (mm)** | **Order Number** |
| PRO BAS 30W 24V 1.3A | 85 – 264 V | 110 – 370 V | 24V DC / 1.3A | 22- 28V DC | 23 x 90 x 85 | **2838500000** |
| PRO BAS 30W 12V 2.6A | 85 – 264 V | 110 – 370 V | 12V DC / 2.6A | 9 - 16V DC | 23 x 90 x 85 | **2838510000** |
| PRO BAS 30W 5V 6A | 85 – 264 V | 110 – 370 V | 5V DC / 6A | 3 - 8 V DC | 36 x 90 x 85 | **2838400000** |
| PRO BAS 60W 24V 2.5A | 85 – 264 V | 110 – 370 V | 24V DC / 2.5A | 22- 28V DC | 36 x 90 x 85 | **2838410000** |
| PRO BAS 60W 12V 5A | 85 – 264 V | 110 – 370 V | 12V DC / 5A | 9 - 16V DC | 36 x 90 x 85 | **2838420000** |
| PRO BAS 90W 24V 3.8A | 85 – 264 V | 110 – 370 V | 24V DC / 3.8A | 22- 25V DC | 47 x 90 x 85 | **2838430000** |
| PRO BAS 120W 24V 5A | 85 – 264 V | 110 – 370 V | 24V DC / 5A | 22- 28V DC | 40 x130 x100 | **2838440000** |
| PRO BAS 120W 12V 10A | 85 – 264 V | 110 – 370 V | 12V DC / 10A | 9 - 16V DC | 40 x130 x100 | **2838450000** |
| PRO BAS 240W 24V 10A | 85 – 264 V | 110 – 370 V | 24V DC / 10A | 22- 28V DC | 52 x130 x100 | **2838460000** |
| PRO BAS 240W 48V 5A | 85 – 264 V | 110 – 370 V | 48V DC / 5A | 36- 56V DC | 52 x130 x100 | **2838470000** |
| PRO BAS 480W 24V 20A | 85 – 264 V | 110 – 370 V | 24V DC / 20A | 22- 28V DC | 59 x130 x125 | **2838480000** |
| PRO BAS 480W 48V 10A | 85 – 264 V | 110 – 370 V | 48V DC / 10A | 36- 56V DC | 59 x130 x125 | **2838490000** |

# PROeco "the economical solution"

## Best performance on a small budget

PROeco switched-mode power supply units are defined by their compact design, high degree of efficiency and ease of service. This is due to over temperature protection, short-circuit and overload protection. They can be use universally in almost all applications. Used with our diode modules, capacity modules and UPS offerings, the PROeco provides utmost flexibility, extensive safety and redundancy options.

- Fast status diagnostics: tricolor LED indication
- High efficiency: up to 93%
- Wide operating range: -25°C (-13° F) to +70°C (158° F)
- Reliable: MTBF > 500,000 hours
- Alarm ability: includes integrated status output relay
- Main application: Serial machinery and standard panels

**Approvals**

| | Input | | | | Output | | | Dimensions | |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **1-Phase** | **2/3 - Phase** | **Input Voltage AC** | **Input Voltage DC** | **Output Nominal Voltage / Current (DC)** | **Adjustable Output** | **Parallel Running** | **Width X Height X Depth (mm)** | **Order Number** |
| PRO ECO 72W 24V 3A | • | | 85 – 264 V | 80 – 370 V | 24 V/ 3 A | 22...28 V DC | • | 34 x 125 x 100 | **1469470000** |
| PRO ECO 120W 24V 5A | • | | 85 – 264 V | 80 – 370 V | 24 V/ 5 A | 22...28 V DC | • | 40 x 125 x 100 | **1469480000** |
| PRO ECO 240W 24V 10A | • | | 85 – 264 V | 80 – 370 V | 24 V/ 10 A | 22...28 V DC | • | 60 x 125 x 100 | **1469490000** |
| PRO ECO 480W 24V 20A | • | | 85 – 264 V | 80 – 370 V | 24 V/ 20 A | 22...28 V DC | • | 100 x 125 x 120 | **1469510000** |
| PRO ECO 960W 24V 40A | • | | 85 – 264 V | 80 – 370 V | 24 V/ 40 A | 22...28 V DC | • | 160 x 125 x 120 | **1469520000** |
| PRO ECO3 120W 24V 5A | | • | 3x 340 – 575 V | 450...500V | 24 V/ 5 A | 22...28 V DC | • | 40 x 125 x 100 | **1469530000** |
| PRO ECO3 240W 24V 10A | | • | 3x 340 – 575 V | 450...500V | 24 V/ 10 A | 22...28 V DC | • | 60 x 125 x 100 | **1469540000** |
| PRO ECO3 480W 24V 20A | | • | 3x 340 – 575 V | 450...500V | 24 V/ 20 A | 22...28 V DC | • | 100 x 125 x 120 | **1469550000** |
| PRO ECO3 960W 24V 40A | | • | 3x 340 – 575 V | 450...500V | 24 V/ 40 A | 22...28 V DC | • | 160 x 125 x 120 | **1469560000** |
| PRO ECO 72W 12V 6A | • | | 85 – 264 V | 80 – 370 V | 12 V/ 6 A | 10...16 V DC | • | 34 x 125 x 100 | **1469570000** |
| PRO ECO 120W 12V 10A | • | | 85 – 264 V | 80 – 370 V | 12 V/ 10 A | 10...16 V DC | • | 40 x 125 x 100 | **1469580000** |
| PRO ECO 240W 48V 5A | • | | 85 – 264 V | 80 – 370 V | 48 V/ 5 A | 42...56 V DC | • | 60 x 125 x 100 | **1469590000** |
| PRO ECO 480W 48V 10A | • | | 85 – 264 V | 80 – 370 V | 48 V/ 10 A | 42...56 V DC | • | 100 x 125 x 120 | **1469610000** |

# PROmax Power Supplies

## For Your Toughest Demands!

PROmax power supplies are high performance switched mode supplies designed for the demanding needs of process heavy applications. They feature start up at temperatures as low as -40°C, Hazardous Area approvals (UL, Class 1 Division 2) and a 300% power boost, making them an ideal choice for harsh environment applications that require maximum power.

- Small housing: 32 mm – 140 mm widths
- MTBF: >500,000 hours
- Wide temperature range: -25° C (77° F) to +70° C (158° F), startup at -40° C (-40° F)
- External monitoring with relay contact
- Capable of parallel and series output connections
- Bi-color LED for easy status indication
- Shock and vibration resistant
- Powerful output surge capability up to 300%

**Approvals**

SEMI F47

| Type | Input | | | | Output | | | Dimensions | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 - Phase | 2/3 - Phase | Input Voltage AC | Input Voltage DC | Output Nominal Voltage / Current (DC) | Adjustable Output | Parallel Running | Width X Height X Depth (mm) | Order Number |
| PRO MAX 72W 24V 3A | • | | 85 – 277 V | 80 – 370 V | 24 V/ 3 A | 22,5 - 29,5 V | • | 32 x 130 x 125 | **1478100000** |
| PRO MAX 120W 24V 5A | • | | 85 – 277 V | 80 – 370 V | 24 V/ 5 A | 22,5 - 29,5 V | • | 40 x 130 x 125 | **1478110000** |
| PRO MAX 180W 24V 7.5A | • | | 85 – 277 V | 80 – 370 V | 24 V/ 7,5 A | 22,5 - 29,5 V | • | 50 x 130 x 125 | **1478120000** |
| PRO MAX 240W 24V 10A | • | | 85 – 277 V | 80 – 370 V | 24 V/ 10 A | 22,5 - 29,5 V | • | 60 x 130 x 125 | **1478130000** |
| PRO MAX 480W 24V 20A | • | | 85 – 277 V | 80 – 370 V | 24 V/ 20 A | 22,5 - 29,5 V | • | 90 x 130 x 150 | **1478140000** |
| PRO MAX 960W 24V 40A | • | | 85 – 277 V | 80 – 370 V | 24 V/ 40 A | 22,5 - 29,5 V | • | 140 x 130 x 150 | **1478150000** |
| PRO MAX3 120W 24V 5A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 5 A | 22,5 - 29,5 V | • | 40 x 130 x 125 | **1478170000** |
| PRO MAX3 240W 24V 10A | | • | 3 x 320 – 575 V | 450...500V | 24V / 10A | 22,5 - 29,5 V | • | 60 x 130 x 125 | **1478180000** |
| PRO MAX3 480W 24V 20A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 20 A | 22,5 - 29,5 V | • | 90 x 130 x 150 | **1478190000** |
| PRO MAX3 960W 24V 40A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 40 A | 22,5 - 29,5 V | • | 140 x 130 x 150 | **1478200000** |
| PRO MAX 70W 5V 14A | • | | 85 – 277 V | 80 – 370 V | 5 V/ 14 A | 4,5 - 7 V | • | 32 x 130 x 125 | **1478210000** |
| PRO MAX 72W 12V 6A | • | | 85 – 277 V | 80 – 370 V | 12 V/ 6 A | 10 - 15 V | • | 32 x 130 x 125 | **1478220000** |
| PRO MAX 120W 12V 10A | • | | 85 – 277 V | 80 – 370 V | 12 V/ 10 A | 10 - 15 V | • | 40 x 130 x 125 | **1478230000** |
| PRO MAX 240W 48V 5A | • | | 85 – 277 V | 80 – 370 V | 48 V/ 5 A | 30 - 56 V | • | 60 x 130 x 125 | **1478240000** |
| PRO MAX 480W 48V 10A | • | | 85 – 277 V | 80 – 370 V | 48 V/ 10 A | 30 - 56 V | • | 90 x 130 x 150 | **1478250000** |
| PRO MAX 960W 48V 20A | • | | 85 – 277 V | 80 – 370 V | 48 V/ 20 A | 30 - 56 V | • | 140 x 130 x 150 | **1478270000** |

# PROtop “the innovative one”

## Reliable power supply for highest demands

If reliable availability and energy efficiency are required even under adverse conditions or in hard-to-reach locations, then our PROtop family is the right choice.

The pre-destined solution. The powerful DCL technology gives the switched mode power supply units an outstanding Dynamic range - ideal for reliable pulse triggering of miniature and standard circuit breakers or as additional energy for powerful motor starts.

- Safe tripping of miniature circuit breakers due to peak current reserve of up to 600% for 15ms
- Efficiencies of up to 95.4% lead to low heat losses and extremely space saving housings
- New data interface makes the PROtop power supplies fit for digitization
- Start-up temperatures as low as -40 °C (for EX/C1D2 version)
- Output ORing MOSFET incorporated: Allows redundancy without diode module

**Approvals**

| | Input | | | | Output | | | Dimensions | |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | **1 - Phase** | **2/3 - Phase** | **Input Voltage AC** | **Input Voltage DC** | **Outiput Nominal Voltage / Current (DC)** | **Adjustable Output** | **Parallel Running** | **Width X Height X Depth (mm)** | **Order Number** |
| PRO TOP1 72W 24V 3A | • | | 85 – 277 V | 80 – 410 V | 24 V/ 3 A | 22,5 - 29 V DC | • | 35 x 120 x 125 | **2466850000** |
| PRO TOP1 120W 24V 5A | • | | 85 – 277 V | 80 – 410 V | 24 V/ 5 A | 22,5 - 29 V DC | • | 35 x 130 x 125 | **2466870000** |
| PRO TOP1 240W 24V 10A | • | | 85 – 277 V | 80 – 410 V | 24 V/ 10 A | 22,5 - 29 V DC | • | 39 x130 x 125 | **2466880000** |
| PRO TOP1 480W 24V 20A | • | | 85 – 277 V | 80 – 410 V | 24 V/ 20 A | 22,5 - 29 V DC | • | 68 x 130 x 125 | **2466890000** |
| PRO TOP1 960W 24V 40A | • | | 85 – 277 V | 80 – 410 V | 24 V/ 40 A | 22,5 - 29 V DC | • | 124 x 130 x 125 | **2466900000** |
| PRO TOP3 120W 24V 5A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 5 A | 22,5 - 29 V DC | • | 38 x 130 x125 | **2467060000** |
| PRO TOP3 240W 24V 10A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 10 A | 22,5 - 29 V DC | • | 49 x 130 125 | **2467080000** |
| PRO TOP3 480W 24V 20+A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 20 A | 22,5 - 29 V DC | • | 68 x 130 x125 | **2467100000** |
| PRO TOP3 960W 24V 40A | | • | 3 x 320 – 575 V | 450...500V | 24 V/ 40 A | 22,5 - 29 V DC | • | 90 x 130 x 175 | **2467120000** |
| PRO TOP1 120W 12V 10A | • | | 85 – 277 V | 80 – 410 V | 12 V/ 10 A | 11...15 V DC | • | 35 x 130 x 125 | **2466910000** |
| PRO TOP1 480W 48V 10A | • | | 85 – 277 V | 80 – 410 V | 48 V/ 10 A | 45...56 V DC | • | 68 x 130 x 125 | **2467030000** |
| PRO TOP1 960W 48V 20A | • | | 85 – 277 V | 80 – 410 V | 48 V/ 20 A | 45...56 V DC | • | 124 x 130 x 125 | **2466920000** |
| PRO TOP3 480W 48V 10A | | • | 3 x 320 – 575 V | 450...500V | 48 V/ 10 A | 45...56 V DC | • | 68 x 130 x 125 | **2467150000** |
| PRO TOP3 960W 48V 20A | | • | 3 x 320 – 575 V | 450...500V | 48 V/ 20 A | 45...56 V DC | • | 90 x 130 x 175 | **2467170000** |
| PRO TOP1 72W 24V 3A CO | • | | 85 – 277 V | 80 – 410 V | 24 V/ 3 A | 22.5 - 29 V DC | • | 35 x 120 x 125 | **2466970000** |
| PRO TOP1 120W 24V 5A EX | • | | 85 – 277 V | 80 – 410 V | 24 V/ 5 A | 22.5 - 29 V DC | • | 35 x 130 x 125 | **2466980000** |
| PRO TOP1 240W 24V 10A EX | • | | 85 – 277 V | 80 – 410 V | 24 V/ 10 A | 22.5 - 29 V DC | • | 39 x130 x 125 | **2466990000** |
| PRO TOP1 480W 24V 20A EX | • | | 85 – 277 V | 80 – 410 V | 24 V/ 20 A | 22.5 - 29 V DC | • | 68 x 130 x 125 | **2467000000** |
| PRO TOP1 960W 24V 40A EX | • | | 85 – 277 V | 80 – 410 V | 24 V/ 40 A | 22.5 - 29 V DC | • | 124x 130 x 125 | **2467010000** |

# Extension: Redundancy, Capacitor, Communication Modules

## Reliably protect sensitive system components

Use our diode and redundancy modules to connect two power supplies and compensate for a device failing. In addition, our capacity module offers power reserves, guaranteeing purposeful and quick triggering of a circuit breaker, for example.

Use our pluggable communication modules for full data transparency and remote control.

Products to increase capabilities of your Power Supply in redundant applications, high output current demand and in communication with controller:

- Capacity module:
  Offers energy reserves, for example to trigger a miniature circuit breaker quickly and efficientally (e.g.: PROeco or PROmax)
- Redundancy modules with Diodes or MOSFET:
  Allows reliable redundant operation for power supplies without MOSFET incorporated (e.g.: PROeco or PROmax)
- Communication modules:
  Connected with PROtop allow access to parameters like Voltage, current, temperature, overvoltages in input, overload in output and operational mode.

**PRO COM CAN OPEN**

**PRO COM IO-LINK**

**Approvals**

**PRO DM 20**

**PRO RM 20**

| Type | Reference | Width x Height x Depth (mm) | Order Number |
|---|---|---|---|
| PRO DM 10 | Redundancy module 24 V DC 2 x 10 A | 32 x 125 x 125 | **2486070000** |
| PRO DM 20 | Redundancy module 24 V DC 2 x 20 A | 32 x 125 x 125 | **2486080000** |
| PRO RM 10 | Redundancy module 24 V DC 2 x 10 A / active load sharing | 30 x 130 x 125 | **2486090000** |
| PRO RM 20 | Redundancy module 24 V DC 2 x 20 A / active load sharing | 38 x 130 x 125 | **2486100000** |
| PRO RM 40 | Redundancy module 24 V DC 2 x 40 A / active load sharing | 52 x 130 x 125 | **2486110000** |
| PRO COM IO-LINK | Communication module IO-LINK | 35 x 74 x 34 | **2587360000** |
| PRO COM CAN OPEN | Communication module CAN-OPEN | 35 x 74 x 34 | **2467320000** |
| PRO COM DISPLAY 7S | Monitoring Lifetime module | 35 x 74 x 34 | **2466960000** |

# DC/DC Converters

Class 1 Div.2 APPROVED

## The compact DC/DC converter provides systems with optimal failure protection for maximum availability.

- 12 VDC and 24 VDC input versions
- Space saving designs starting at 43 mm width
- Approvals include UL508 and CSA
- Robust and durable metal housings
- Wide operating temperature range: -25°C (-13°F) to +70°C (158°F)

**Options with Power boost up to 600% for 16ms and 24V output:**

| Type | Input Voltage Range | Output Voltage Range | Output Current | Power | Order Number |
|---|---|---|---|---|---|
| PRO DCDC 120W 24V 5A | 14 - 32VDC | Adjustable from 22.5 to 29.5VDC | 5 Amp (@24VDC Out) | 120W | **2001800000** |
| PRO DCDC 240W 24V 10A | 14 - 32VDC | Adjustable from 22.5 to 29.5VDC | 10 Amp (@24VDC Out) | 240W | **2001810000** |
| PRO DCDC 480W 24V 20A | 14 - 32VDC | Adjustable from 22.5 to 29.5VDC | 20 Amp (@24VDC Out) | 480W | **2001820000** |
| PRO DCDC 96W 12V/12V 8A | 9 - 18VDC | Adjustable from 5 to 15VDC | 8 Amp (@12VDC Out) | 96W | **2869000000** |
| PRO DCDC 96W 24V/12V 8A | 18 - 34VDC | Adjustable from 5 to 15VDC | 8 Amp (@12VDC Out) | 96W | **2869010000** |
| PRO DCDC 96W 48V/12V 8A | 28 - 58Vdc | Adjustable from 5 to 15VDC | 8 Amp (@12VDC Out) | 96W | **2869020000** |
| PRO DCDC 120W 12V/24V 5A | 9 - 18VDC | Adjustable from 22 to 29.5VDC | 5 Amp (@24VDC Out) | 120W | **2869030000** |
| PRO DCDC 120W 48V/24V 5A | 28 - 58Vdc | Adjustable from 22 to 29.5VDC | 5 Amp (@24VDC Out) | 120W | **2869040000** |
| PRO DCDC 240W 24V/48V 5A | 18 - 34VDC | Adjustable from 28.5 to 56VDC | 5 Amp (@48VDC Out) | 240W | **2869050000** |
| PRO DCDC 240W 48V/48V 5A | 28 - 58Vd | Adjustable from 28.5 to 56VDC | 5 Amp (@48VDC Out) | 240W | **2869060000** |

**Options with other voltages:**

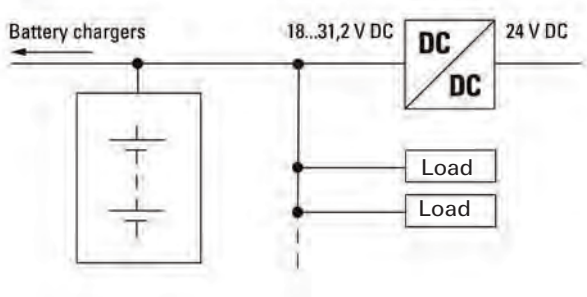
| Type | Input Voltage Range | Output Voltage Range | Output Current | Power | Order Number |
|---|---|---|---|---|---|
| PRO TOPDC 24V/24V 5A | 24 VDC | 24 VDC | 5 A | 480W | **2627650000 *** |
| PRO TOPDC 24V/24V 5A EX | 24 VDC | 24 VDC | 5 A | 120W | **2467290000 *** |
| PRO TOPDC 24V/24V 10A | 24 VDC | 24 VDC | 10 A | 240W | **2627640000 *** |
| PRO TOPDC 24V/24V 10A EX | 24 VDC | 24 VDC | 10 A | 240W | **2467300000 *** |
| PRO TOPDC 24V/24V 20A | 24 VDC | 24 VDC | 20 A | 480W | **2627630000 *** |
| PRO TOPDC 24V/24V 20A EX | 24 VDC | 24 VDC | 20 A | 480W | **2467310000 *** |
| PRO TOPDC 24V/48V 10A | 24 VDC | 48 VDC | 10 A | 480W | **2627660000 *** |

*** indicates new order number**

## Applications

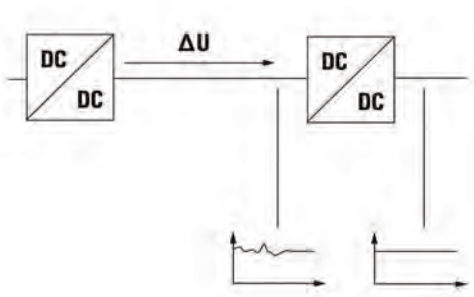
### Stable 24 VDC supply

The DC/DC converter compensates for voltage fluctuations, which may result from unregulated power supplies or voltage drops due to long distances or noise.




### Floating Earth Systems

Class III DC/DC converters are well suited for use in floating-earth systems, such as applications that use emergency-power batteries in parallel operations.



# Uninterruptible Power Supplies (UPS)
# Buffer and Backup Battery Unit (BBU)

## Secure Energy in Automation

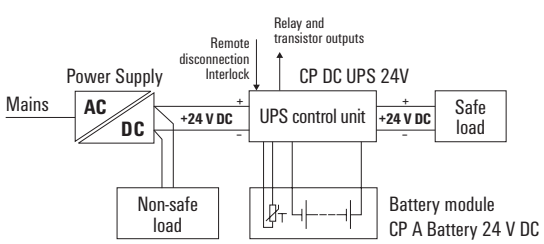
Extend system uptime by providing DC power in the event of an AC power failure. These BBU's and UPS's provide the best security and protection in the event of an AC power interruption including: charging, monitoring, status indication, alarming, all with back-up battery power.

### UPS with battery charging temperature dependent

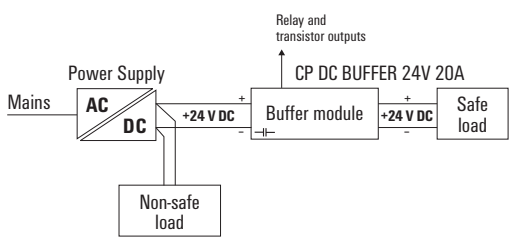
- Long battery life – temperature compensated charging for maximum battery life
- Protection from short, transient and/or long power failures
- Level indicator for status and error analysis
- Wide power options – modular design allow for load distribution
- Buffer modules: UPS based on incorporated capacitor.
- Manage short time interruptions without battery

| Type | Reference | Width x Height x Depth (mm) | Order Number |
|---|---|---|---|
| DURA ECO LA-BAT 24V 1.2AH | Battery Module 24V 1.2Ah / Buffer time: 40min@1A | 52 x 149.5 x 124 | **2789890000** |
| DURA ECO LA-BAT 24V 3.4AH | Battery Module 24V 3.4Ah / Buffer time: 10min@10A | 108 x 141 x 166 | **2789900000** |
| DURA ECO LA-BAT 24V 7AH | Battery Module 24V 7Ah / Buffer time: 23min@10A | 162 x 158 x 135 | **2789910000** |
| DURA ECO LA-BAT 24V 12AH | Battery Module 24V 12Ah / Buffer time: 50min@10A | 229 x 158 x 135 | **2789920000** |
| DURA ECO LA-BAT 24V 17AH | Battery Module 24V 17Ah / Buffer time: 72min@10A | 242 x 178 x 189 | **2789930000** |
| PRO DC BUFFER 24V 20A | Capacitive buffer for short mains interruption / Buffer time: 200ms@20A | 55 x 125 x 130 | **2786240000** |
| PRO DC BUFFER 24V 40A | Capacitive buffer for short mains interruption / Buffer time: 200ms@40A | 65 x 125 x 130 | **2786250000** |

### UPS with battery module




### UPS with buffer module



# Relays & Solid-State Relays

Electronics

## High-quality and reliable with Klippon® Relay

The optimization of the control cabinet infrastructure is our daily motivation. For this we have built up decades of technical expertise and a broad understanding of the market. With Klippon® Relay, we offer high-quality relay modules and solid-state relays meeting all current and future market requirements. Our range impresses with reliable, safe and durable products. Many other services such as digital data support, switching load consulting and selection guides to support our customers complement the offer.

# Relays and Solid-State Relays

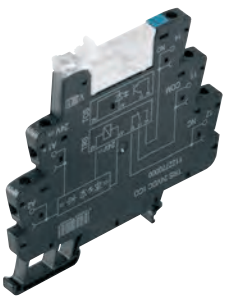
Weidmuller's TERMSERIES relay family offers complete high-quality relay modules and solid-state relays meeting all current and future market requirements. In a terminal block design these modules are made for high density installations. Additional features include a distinct status display through an LED that completely illuminates the ejector and a unique multi-voltage input from 24V to 230V UC for an exceptional broad range of applications. Many other services such as digital data support, switching load consulting and selection guides to support our customers complement the offer.

## TERMSERIES Relays

- Features pluggable relays
- 1CO and 2CO versions with same profile for easy cross-connection
- Pluggable cross-connections on 5 levels to minimize wiring
- Compact design with 6.4 mm for 1CO versions and 12.8 mm for 2CO versions
- Distinctive status display with LED that completely illuminates the ejector
- Unique Multi-voltage input from 24V up to 230V UC
- Choice of screw clamp, tension clamp and PUSH IN technology
- cULus listed

### 1CO versions

| Type | Description | Order Number |
|---|---|---|
| TRS 5VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 5 V DC ±20 %, Continuous current: 6 A, Screw connection | 1122740000 |
| TRS 12VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Screw connection | 1122750000 |
| TRS 24VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection | 1122770000 |
| TRS 24VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Screw connection | 1122780000 |
| TRS 48VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 6 A, Screw connection | 1122790000 |
| TRS 60VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 6 A, Screw connection | 1122800000 |
| TRS 120VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, Screw connection | 1122810000 |
| TRS 230VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, Screw connection | 1122820000 |
| TRS 24-230VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection | 1122850000 |
| TRZ 5VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 5 V DC ±20 %, Continuous current: 6 A, Tension-clamp connection | 1122860000 |
| TRZ 12VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Tension-clamp connection | 1122870000 |
| TRZ 24VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Tension-clamp connection | 1122880000 |
| TRZ 24VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122890000 |
| TRZ 48VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122900000 |
| TRZ 60VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122910000 |
| TRZ 120VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122920000 |
| TRZ 230VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, Tension-clamp connection | 1122930000 |
| TRZ 24-230VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122970000 |
| TRP 5VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 5 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | 2614830000 |
| TRP 12VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | 2618180000 |
| TRP 24VDC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | 2618000000 |
| TRP 24VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618220000 |
| TRP 48VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618240000 |
| TRP 60VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618140000 |
| TRP 120VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618010000 |
| TRP 230VUC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, PUSH IN connection | 2618050000 |



Screw Clamp

Tension Clamp

PUSH IN

# TERMSERIES Relays- continued

## 1CO RC versions for protection against leakage currents on the control side

| Type | Description | Order Number |
|---|---|---|
| TRS 120VAC RC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection | 1122830000 |
| TRS 230VAC RC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Screw connection | 1122840000 |
| TRZ 120VAC RC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122940000 |
| TRZ 230VAC RC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1122950000 |
| TRP 120VAC RC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618150000 |
| TRP 230VAC RC 1CO | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618200000 |

Screw Clamp

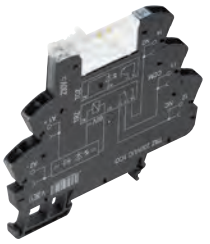
Tension Clamp

PUSH IN

## 1CO versions with hard gold-plated contacts

| Type | Description | Order Number |
|---|---|---|
| TRS 5VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 6 A, Screw connection | 1122980000 |
| TRS 12VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Screw connection | 1122990000 |
| TRS 24VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection | 1123000000 |
| TRS 24VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Screw connection | 1123010000 |
| TRS 48VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 6 A, Screw connection | 1123020000 |
| TRS 60VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 6 A, Screw connection | 1123030000 |
| TRS 120VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, Screw connection | 1123040000 |
| TRS 230VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, Screw connection | 1123050000 |
| TRS 24-230VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection | 1123090000 |
| TRZ 5VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 6 A, Tension-clamp connection | 1123100000 |
| TRZ 12VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Tension-clamp connection | 1123110000 |
| TRZ 24VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Tension-clamp connection | 1123120000 |
| TRZ 24VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123130000 |
| TRZ 48VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123140000 |
| TRZ 60VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123150000 |
| TRZ 120VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123170000 |
| TRZ 230VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, Tension-clamp connection | 1123180000 |
| TRZ 24-230VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123210000 |
| TRP 5VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | 2618060000 |
| TRP 12VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | 2618120000 |
| TRP 24VDC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | 2618110000 |
| TRP 24VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618160000 |
| TRP 48VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618170000 |
| TRP 60VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618070000 |
| TRP 120VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618080000 |
| TRP 230VUC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, PUSH IN connection | 2618210000 |

Screw Clamp



Tension Clamp

PUSH IN

# TERMSERIES Relays- continued

## 1CO RC versions for protection against leakage currents on the control side with hard gold-plated contacts

| Type | Description | Order Number |
|---|---|---|
| TRS 120VAC RC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection | 1123070000 |
| TRS 230VAC RC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Screw connection | 1123080000 |
| TRZ 120VAC RC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123190000 |
| TRZ 230VAC RC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Tension-clamp connection | 1123200000 |
| TRP 120VAC RC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, PUSH IN connection | 2618030000 |
| TRP 230VAC RC 1CO AU | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±10%, Continuous current: 6 A, PUSH IN connection | 2617950000 |

Screw Clamp

Tension Clamp

PUSH IN

## 1CO versions
## Hazardous Area Approvals (UL Class 1, Division 2) cULus
## RC version for protection against leakage currents on the control side

| Type | Description | Order Number |
|---|---|---|
| TRS 12 VDC 1CO C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Screw connection | 1984560000 |
| TRS 24 VDC 1CO C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection | 1984570000 |
| TRS 24 VUC 1CO C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Screw connection | 1984580000 |
| TRS 120 VAC RC 1CO C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection | 1984590000 |
| TRS 230 VAC RC 1CO C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Screw connection | 1984600000 |
| TRS 24-230 VUC 1CO C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection | 1984610000 |

Screw Clamp

## 1CO versions
## Hazardous Area Approvals (UL Class 1, Division 2) cULus
## with hard gold-plated contacts
## RC version for protection against leakage currents on the control side

| Type | Description | Order Number |
|---|---|---|
| TRS 12 VDC 1 CO AU C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Screw connection | 1984620000 |
| TRS 24 VDC 1 CO AU C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection | 1984630000 |
| TRS 120 VAC RC 1 CO AU C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection | 1984640000 |
| TRS 24-230 VUC 1 CO AU C1D2 | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection | 1984650000 |

Screw Clamp

# TERMSERIES Relays- continued

## 2CO versions

| Type | Description | Order Number |
|---|---|---|
| TRS 5VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, Screw connection | 1123470000 |
| TRS 12VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, Screw connection | 1123480000 |
| TRS 24VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, Screw connection | 1123490000 |
| TRS 24VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123500000 |
| TRS 48VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123510000 |
| TRS 60VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123520000 |
| TRS 120VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123530000 |
| TRS 230VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, Screw connection | 1123540000 |
| TRS 24-230VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123580000 |
| TRZ 5VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection | 1123590000 |
| TRZ 12VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection | 1123600000 |
| TRZ 24VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection | 1123610000 |
| TRZ 24VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123620000 |
| TRZ 48VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123630000 |
| TRZ 60VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123640000 |
| TRZ 120VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123650000 |
| TRZ 230VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, Tension-clamp connection | 1123670000 |
| TRZ 24-230VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123700000 |
| TRP 5VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, PUSH IN connection | 2614840000 |
| TRP 12VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, PUSH IN connection | 2618550000 |
| TRP 24VDC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, PUSH IN connection | 2618400000 |
| TRP 24VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618320000 |
| TRP 48VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618520000 |
| TRP 60VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618290000 |
| TRP 120VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618570000 |
| TRP 230VUC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, PUSH IN connection | 2618440000 |

Screw Clamp

Tension Clamp

PUSH IN

Screw Clamp

Tension Clamp

PUSH IN

## 2CO RC versions for protection against leakage currents on the control side

| Type | Description | Order Number |
|---|---|---|
| TRS 120VAC RC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, Screw connection | 1123550000 |
| TRS 230VAC RC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, Screw connection | 1123570000 |
| TRZ 120VAC RC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123680000 |
| TRZ 230VAC RC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, Tension-clamp connection | 1123690000 |
| TRP 120VAC RC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618470000 |
| TRP 230VAC RC 2CO | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, PUSH IN connection | 2618330000 |

# TERMSERIES Relays- continued

## 2CO versions with hard gold plated contacts

| Type | Description | Order Number |
|---|---|---|
| TRS 5VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, Screw connection | 1123710000 |
| TRS 12VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, Screw connection | 1123720000 |
| TRS 24VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, Screw connection | 1123730000 |
| TRS 24VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123740000 |
| TRS 48VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123750000 |
| TRS 60VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123770000 |
| TRS 120VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123780000 |
| TRS 230VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, Screw connection | 1123790000 |
| TRS 24-230VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 8 A, Screw connection | 1123820000 |
| TRZ 5VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection | 1123830000 |
| TRZ 12VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection | 1123840000 |
| TRZ 24VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection | 1123850000 |
| TRZ 24VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123870000 |
| TRZ 48VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123880000 |
| TRZ 60VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123890000 |
| TRZ 120VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123900000 |
| TRZ 230VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, Tension-clamp connection | 1123910000 |
| TRZ 24-230VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123920000 |
| TRP 5VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, PUSH IN connection | 2618580000 |
| TRP 12VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, PUSH IN connection | 2618310000 |
| TRP 24VDC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, PUSH IN connection | 2618530000 |
| TRP 24VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618540000 |
| TRP 48VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618560000 |
| TRP 60VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618360000 |
| TRP 120VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618590000 |
| TRP 230VUC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, PUSH IN connection | 2618300000 |

Screw Clamp

Tension Clamp

PUSH IN

## 2CO RC versions for protection against leakage currents on the control side with hard gold-plated contacts

| Type | Description | Order Number |
|---|---|---|
| TRS 120VAC RC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, Screw connection | 1123800000 |
| TRS 230VAC RC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, Screw connection | 1123810000 |
| TRZ 120VAC RC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, Tension-clamp connection | 1123920000 |
| TRZ 230VAC RC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, Tension-clamp connection | 1123930000 |
| TRP 120VAC RC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, PUSH IN connection | 2618490000 |
| TRP 230VAC RC 2CO AU | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, PUSH IN connection | 2618500000 |

Screw Clamp

Tension Clamp

PUSH IN

### TERMSERIES Force Guided – Relay modules with positively driven contacts

| Type | Description | Order Number |
|---|---|---|
| TRS 24VUC 2CO FG | TERMSERIES, Relay module with positively driven contacts,<br>Number of contacts: 2, CO contact positively-driven (EN 61810-3 type B) AgNi,<br>Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Screw connection | **2706290000** |
| TRP 24VUC 2CO FG | TERMSERIES, Relay module with positively driven contacts,<br>Number of contacts: 2, CO contact positively-driven (EN 61810-3 type B) AgNi,<br>Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, PUSH IN connection | **2706430000** |
| RCH424024FG | Spare Relay for 24VUC FG versions:<br>TERMSERIES, Relay with positively driven contacts,<br>Number of contacts: 2, CO contact positively-driven (EN 61810-3 type B) AgNi,<br>Rated control voltage: 24 V DC, Continuous current: 6 A | **2723360000** |

Screw Clamp

PUSH IN

### TERMSERIES Timer Relays

| Type | Description | Order Number |
|---|---|---|
| TRS T 24VDC 1CO M3 | TERMSERIES, Multifunction timing relay, Number of contacts: 1, CO contact, AgSnO,<br>Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection | **2639560000** |
| TRP T 24VDC 1CO M3 | TERMSERIES, Multifunction timing relay, Number of contacts: 1, CO contact, AgSnO,<br>Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, PUSH IN connection | **2639730000** |
| TRS T 24VDC 1CO M3 EMPTY | Spare base for PUSH IN connection timer TRS:<br>TERMSERIES, Multifunction timing relay, Empty socket, Number of contacts: 1, CO contact,<br>Rated control voltage: 24 V DC ±20 %, Continuous current: 10 A, Screw connection | **2639720000** |
| TRP T 24VDC 1CO M3 EMPTY | Spare base for Screw connection timer TRP:<br>TERMSERIES, Multifunction timing relay, Empty socket, Number of contacts: 1, CO contact,<br>Rated control voltage: 24 V DC ±20 %, Continuous current: 10 A, PUSH IN connection | **2639740000** |

Screw Clamp

PUSH IN

## TERMSERIES Relays Accessories

### Cross-connectors / Isolation Plates / Supply terminals

| Type | Description | Order Number |
|---|---|---|
| TCC 6.4/2 BL | For use with 1CO versions: 2 pole cross connection, 6.4 mm, Blue | **2556430000** |
| TCC 6.4/2 OR | For use with 1CO versions: 2 pole cross connection, 6.4 mm, Orange | **2556350000** |
| TCC 6.4/2 RD | For use with 1CO versions: 2 pole cross connection, 6.4 mm, Red | **2556390000** |
| TCC 6.4/2 BK | For use with 1CO versions: 2 pole cross connection, 6.4 mm, Black | **2556470000** |
| TCC 6.4/10 BL | For use with 1CO versions: 10 pole cross connection, 6.4 mm, Blue | **2556440000** |
| TCC 6.4/10 OR | For use with 1CO versions: 10 pole cross connection, 6.4 mm, Orange | **2556360000** |
| TCC 6.4/10 RD | For use with 1CO versions: 10 pole cross connection, 6.4 mm, Red | **2556400000** |
| TCC 6.4/10 BK | For use with 1CO versions: 10 pole cross connection, 6.4 mm, Black | **2556480000** |
| TCC 6.4/51 BL | For use with 1CO versions: 51 pole cross connection, 6.4 mm, Blue | **2556450000** |
| TCC 6.4/51 OR | For use with 1CO versions: 51 pole cross connection, 6.4 mm, Orange | **2556370000** |
| TCC 6.4/51 RD | For use with 1CO versions: 51 pole cross connection, 6.4 mm, Red | **2556410000** |
| TCC 6.4/51 BK | For use with 1CO versions: 51 pole cross connection, 6.4 mm, Black | **2556490000** |
| TCC 12.8/26 BL | For use with 2CO versions: 26 pole cross connection, 6.4 mm, Blue | **2556460000** |
| TCC 12.8/26 OR | For use with 2CO versions: 26 pole cross connection, 6.4 mm, Orange | **2556380000** |
| TCC 12.8/26 RD | For use with 2CO versions: 26 pole cross connection, 6.4 mm, Red | **2556420000** |
| TCC 12.8/26 BK | For use with 2CO versions: 26 pole cross connection, 6.4 mm, Black | **2556500000** |
| TXS SUPPLY | For use with 1 or 2 CO versions: TERMSERIES, Supply module,<br>Number of contacts: 5, Continuous current: 10 A, Screw connection | **1240780000** |
| TXZ SUPPLY | For use with 1 or 2 CO versions: TERMSERIES, Supply module,<br>Number of contacts: 5, Continuous current: 10 A, Tension-clamp connection | **1240790000** |
| TXP SUPPLY | For use with 1 or 2 CO versions: TERMSERIES, Supply module,<br>Number of contacts: 5, Continuous current: 10 A, PUSH IN connection | **2618940000** |
| TW TXS/TXZ R3.2 | For use with 1 or 2 CO versions: TERMSERIES, Isolation plate, 3.2 mm pitch | **1240800000** |

Cross-connectors (Jumpers)

Isolation Plate

Supply Terminal

# PLC/ I/O Interface Adapters (TIA'S)

- Can be used in positive switching logic and negative switching logic with easy switch
- Connect 8 signal paths with one cable
- Easy PUSH IN design for simple supply voltage bridging
- With reverse polarity protection
- Versions with 8 or 16 signals supported

| Type | Supply Connection Type | No. of Signal Paths | Data Signal Connector Type | Order Number |
|---|---|---|---|---|
| TIA F10 | PUSH IN | 8 | For use with 1CO versions:<br>10 pole plug (DIN EN 60603-13), long locking lever,<br>Number of signal paths: 8, Rated voltage : 24 V DC,<br>Rated current (per signal path): 125 mA | **1463520000** |
| TIA SUBD15S | PUSH IN | 8 | For use with 1CO versions:<br>Sub D, 15 pole (DIN 41652 / IEC 60807),<br>Number of signal paths: 8, Rated voltage : 24 V DC,<br>Rated current (per signal path): 125 mA | **1463530000** |
| TIAL F10 | PUSH IN | 8 | For use with 2 CO versions:<br>10 pole plug (DIN EN 60603-13), long locking lever,<br>Number of signal paths: 8, Rated voltage : 24 V DC,<br>Rated current (per signal path): 125 mA | **1463540000** |
| TIAL F20 | PUSH IN | 16 | For use with 1 CO versions:<br>20 pole plug (DIN EN 60603-13), long locking lever,<br>Number of signal paths: 16, Rated voltage : 24 V DC,<br>Rated current (per signal path): 60 mA | **1463550000** |

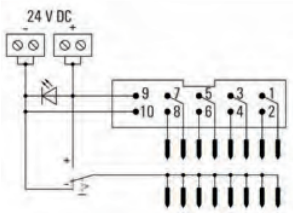
**TIA F10**

**TIAL F20**

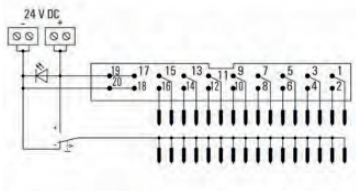
# Cables and Quick Connectors for TERMSERIES Interface Adapters (TIA's)

Designed for quick and simple connections between TERMSERIES relay assemblies and any DCS, PLC or terminal blocks.

- All cables are pre-assembled
- cULus cables and connectors
- 22 AWG cable with shielding




**Wiring diagram for TIAL F10 and TIA SUBD15S**




**Wiring diagram for TIAL F20**

## Use with TIAL F10

| Type | Connection Type | Length Meters | Order Number |
|---|---|---|---|
| SP-CBL-TIAU-10-10 0.5M | 10 pin to 10 pin | 0.5 | **7940099852*** |
| SP-CBL-TIAU-10-10 1.0M | 10 pin to 10 pin | 1.0 | **7940103637*** |
| SP-CBL-TIAU-10-10 2.0M | 10 pin to 10 pin | 2.0 | **7940113046*** |
| SP-CBL-TIAU-10-10 3.0M | 10 pin to 10 pin | 3.0 | **7940113047*** |
| SP-CBL-TIAU-10-10 5.0M | 10 pin to 10 pin | 5.0 | **7940113048*** |

| Type | Connection Type | Length Meters | Order Number |
|---|---|---|---|
| SP-CBL-TIAU-10-F 0.5M | 10 pin to flying leads | 0.5 | **7940099853*** |
| SP-CBL-TIAU-10-F 1.0M | 10 pin to flying leads | 1.0 | **7940099854*** |
| SP-CBL-TIAU-10-F 2.0M | 10 pin to flying leads | 2.0 | **7940099855*** |
| SP-CBL-TIAU-10-F 3.0M | 10 pin to flying leads | 3.0 | **7940099856*** |
| SP-CBL-TIAU-10-F 5.0M | 10 pin to flying leads | 5.0 | **7940099857*** |

## Use with TIAL F20

| Type | Connection Type | Length Meters | Order Number |
|---|---|---|---|
| SP-CBL-TIAU-20-20 0.5M | 20 pin to 20 pin | 0.5 | **7940099844*** |
| SP-CBL-TIAU-20-20 1.0M | 20 pin to 20 pin | 1.0 | **7940099845*** |
| SP-CBL-TIAU-20-20 2.0M | 20 pin to 20 pin | 2.0 | **7940103635*** |
| SP-CBL-TIAU-20-20 3.0M | 20 pin to 20 pin | 3.0 | **7940108393*** |
| SP-CBL-TIAU-20-20 5.0M | 20 pin to 20 pin | 5.0 | **7940113041*** |

| Type | Connection Type | Length Meters | Order Number |
|---|---|---|---|
| SP-CBL-TIAU-20-F 0.5M | 20 pin to flying leads | 0.5 | **7940099846*** |
| SP-CBL-TIAU-20-F 1.0M | 20 pin to flying leads | 1.0 | **7940099847*** |
| SP-CBL-TIAU-20-F 2.0M | 20 pin to flying leads | 2.0 | **7940099848*** |
| SP-CBL-TIAU-20-F 3.0M | 20 pin to flying leads | 3.0 | **7940099849*** |
| SP-CBL-TIAU-20-F 5.0M | 20 pin to flying leads | 5.0 | **7940099850*** |

* indicates new order number

Klippon® Relay

# TERMSERIES relay modules with test button

## Facilitate maintenance and commissioning with manual operability

In many situations, it is important to perform test processes as quickly and easily as possible. Relay modules from the TERMSERIES are now also available with a test button and offer a high level of practical benefits.

With the manually lockable test button, input or output signals can be simulated easily. In this way, machines and systems can be tested step-by-step during commissioning and maintenance. The orange test button is immediately recognizable and easy to operate. TERMSERIES relay modules with test button expand our proven TERMSERIES product family. They are compatible with TERMSERIES accessories and can be supplemented with interface adapters, cross-connections and partition plates.

### Your special advantages:

- **Lockable test button**
  The test button enables easy simulation of digital input and output signals. For protection against mal-operation, it can only be locked with a screwdriver.
- **Supplementary actuator version**
  In the actuator version, supply and return conductors can be connected directly to the relay module. This eliminates intensive separate wiring and considerably reduces the wiring time.
- **Universally applicable**
  TERMSERIES relay modules with test button are compatible with all accessories of the successful TERMSERIES product family. This allows high flexibility and easy integration into existing systems.

PUSH IN

**TERMSERIES relay modules with test button expand our proven TERMSERIES product family by allowing you to perform test processes as quickly and easily as possible.**

Operation is possible purely manually or via on/off signal of the controlling signal source

Simple simulation of digital input and output signals during commissioning and maintenance work

Available as an actuator version, with gold contacts as well as with special multi-voltage input (24-230 V UC)

### TERMSERIES PB with test button

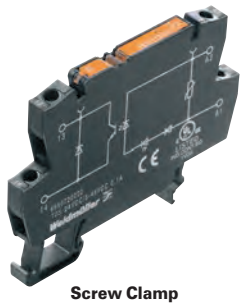
| Type | Rated control voltage | Contact type | Contact material | Connection | Qty | Order Number |
|---|---|---|---|---|---|---|
| TRP 24VDC 1CO AGSNO PB | 24 V DC | 1 CO contact | AgSnO | PUSH IN | 10 | 2855800000 |
| TRP 24VUC 1CO AGSNO PB | 24 V UC | 1 CO contact | AgSnO | PUSH IN | 10 | 2855810000 |
| TRP 24-230VUC 1CO AGSNO ED2 PB | 24 - 230 V UC | 1 CO contact | AgSnO | PUSH IN | 10 | 2855910000 |
| TRP 24VDC 1CO AGSNO AU PB | 24 V DC | 1 CO contact | AgSnO + Au | PUSH IN | 10 | 2855830000 |
| TRP 24VUC 1CO AGSNO AU PB | 24 V UC | 1 CO contact | AgSnO + Au | PUSH IN | 10 | 2855820000 |
| TRP 24-230VUC 1CO AGSNO AU ED2 PB | 24 - 230 V UC | 1 CO contact | AgSnO + Au | PUSH IN | 10 | 2855900000 |
| TRP 24VDC ACT PB | 24 V DC | 1 NO contact | AgSnO | PUSH IN | 10 | 2855840000 |
| TRS 24VDC 1CO AGSNO PB | 24 V DC | 1 CO contact | AgSnO | Screw connection | 10 | 2855870000 |
| TRS 24VUC 1CO AGSNO PB | 24 V UC | 1 CO contact | AgSnO | Screw connection | 10 | 2855890000 |
| TRS 24-230VUC 1CO AGSNO ED2 PB | 24 - 230 V UC | 1 CO contact | AgSnO | Screw connection | 10 | 2855930000 |
| TRS 24VDC 1CO AGSNO AU PB | 24 V DC | 1 CO contact | AgSnO + Au | Screw connection | 10 | 2855860000 |
| TRS 24VUC 1CO AGSNO AU PB | 24 V UC | 1 CO contact | AgSnO + Au | Screw connection | 10 | 2855880000 |
| TRS 24-230VUC 1CO AGSNO AU ED2 PB | 24 - 230 V UC | 1 CO contact | AgSnO + Au | Screw connection | 10 | 2855920000 |
| TRS 24VDC ACT PB | 24 V DC | 1 NO contact | AgSnO | Screw connection | 10 | 2855850000 |

Visit our website for more information

Visit our online catalog for more information

# TERMSERIES Solid State Relays – Optocoupler Modules

- Features pluggable Opto Modules
- Compact design with 6.4 mm or 12.8 mm width
- Distinctive status display with LED that completely illuminates the ejector
- Unique Multi-voltage input option from 24V up to 230V UC
- Choice of screw clamp and tension clamp
- Pluggable cross-connections on 5 levels to minimize wiring
- cULus listed



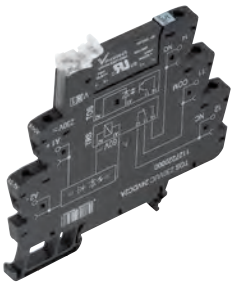
Screw Clamp

## TERMSERIES Opto Modules

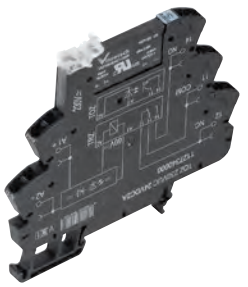
| Type | Description | Order Number |
|---|---|---|
| TOS 5VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126920000** |
| TOS 12VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126930000** |
| TOS 24VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126940000** |
| TOS 24VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126950000** |
| TOS 48VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126960000** |
| TOS 60VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126970000** |
| TOS 120VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126980000** |
| TOS 230VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V UC ±10% . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1126990000** |
| TOS 24-230VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1127020000** |
| TOS 5VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127390000** |
| TOS 12VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127400000** |
| TOS 24VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127410000** |
| TOS 24VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127420000** |
| TOS 48VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127430000** |
| TOS 60VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127440000** |
| TOS 120VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127450000** |
| TOS 230VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V UC +5 %/ -10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127470000** |
| TOS 24-230VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127500000** |
| TOS 5VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127140000** |
| TOS 12VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127150000** |
| TOS 24VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127170000** |
| TOS 24VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127180000** |
| TOS 48VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127190000** |

# TERMSERIES Opto Modules - continued

| Type | Description | Order Number |
|---|---|---|
| TOS 60VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127200000** |
| TOS 120VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127210000** |
| TOS 230VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V UC ±10% . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127220000** |
| TOS 24-230VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127250000** |
| TOS 24VDC 230VAC 1A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Screw connection | **1127680000** |
| TOS 24-230VUC 230VAC 1A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Screw connection | **1127690000** |
| TOS 24VDC 24VDC 3.5A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Screw connection | **1127630000** |
| TOS 24-230VUC 24VDC 3.5A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Screw connection | **1127640000** |
| | | |
| TOZ 5VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127030000** |
| TOZ 12VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127040000** |
| TOZ 24VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127050000** |
| TOZ 24VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127060000** |
| TOZ 48VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127070000** |
| TOZ 60VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127080000** |
| TOZ 120VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127090000** |
| TOZ 230VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V UC ±10% . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127100000** |
| TOZ 24-230VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127130000** |
| TOZ 5VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127510000** |
| TOZ 12VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127520000** |
| TOZ 24VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127530000** |
| TOZ 24VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127540000** |
| TOZ 48VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127550000** |
| TOZ 60VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127570000** |
| TOZ 120VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127580000** |
| TOZ 230VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V UC +5 %/ -10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127590000** |
| TOZ 24-230VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127620000** |



**Screw Clamp**



**Tension Clamp**

# TERMSERIES Opto Modules - continued

| Type | Description | Order Number |
|---|---|---|
| TOZ 5VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127270000** |
| TOZ 12VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127280000** |
| TOZ 24VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127290000** |
| TOZ 24VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127300000** |
| TOZ 48VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127310000** |
| TOZ 60VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127320000** |
| TOZ 120VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127330000** |
| TOZ 230VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V UC ±10% . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127340000** |
| TOZ 24-230VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127380000** |
| TOZ 24VDC 230VAC 1A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Tension-clamp connection | **1127700000** |
| TOZ 24-230VUC 230VAC 1A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Tension-clamp connection | **1127710000** |
| TOZ 24VDC 24VDC 3.5A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Tension-clamp connection | **1127650000** |
| TOZ 24-230VUC 24VDC 3.5A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Tension-clamp connection | **1127670000** |
| | | |
| TOP 5VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2614860000** |
| TOP 12VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618600000** |
| TOP 24VDC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618790000** |
| TOP 24VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618640000** |
| TOP 48VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618710000** |
| TOP 60VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2614880000** |
| TOP 120VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618680000** |
| TOP 230VUC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V UC ±10% . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618690000** |
| TOP 5VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618810000** |
| TOP 12VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618820000** |
| TOP 24VDC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618720000** |
| TOP 24VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618730000** |
| TOP 48VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618760000** |

**Tension Clamp**

**PUSH IN**

# TERMSERIES Opto Modules - continued

| Type | Description | Order Number |
|---|---|---|
| TOP 60VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618970000** |
| TOP 120VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618770000** |
| TOP 230VUC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V UC ±10% . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618800000** |
| TOP 5VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 5 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2614850000** |
| TOP 12VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 12 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618380000** |
| TOP 24VDC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618420000** |
| TOP 24VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618350000** |
| TOP 48VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 48 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618460000** |
| TOP 60VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 60 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618370000** |
| TOP 120VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V UC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618480000** |
| TOP 230VUC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V UC +5 %/ -10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618450000** |
| TOP 24VDC 24VDC 3.5A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. PUSH IN connection | **2618700000** |
| TOP 24VDC 24VDC 5A | TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 5 A. PUSH IN connection | **2618840000** |

**PUSH IN**

## Actuator version Solid State Relay
## 3 to 33 VDC 2A output in Screw, Tension and PUSH IN Technology

| Type | Description | Order Number |
|---|---|---|
| TOS 24VDC ACT | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1391680000** |
| TOZ 24VDC ACT | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1391690000** |
| TOP 24VDC ACT | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618750000** |

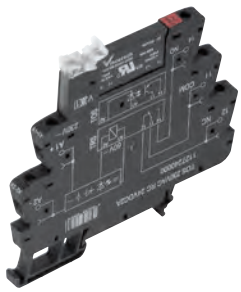
**Screw Clamp**

**Tension Clamp**

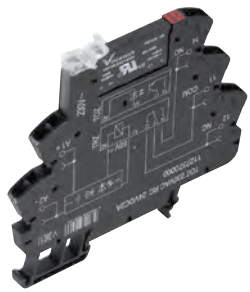
**PUSH IN**

## RC version for protection against leakage current on the control side

| Type | Description | Order Number |
|---|---|---|
| TOS 120VAC RC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1127000000** |
| TOS 230VAC RC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V AC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection | **1127010000** |
| TOS 120VAC RC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127480000** |
| TOS 230VAC RC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V AC +5 % / -10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection | **1127490000** |
| TOS 120VAC RC 24VDC2 A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127230000** |
| TOS 230VAC RC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V AC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection | **1127240000** |
| | | |
| TOZ 120VAC RC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127110000** |
| TOZ 230VAC RC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V AC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection | **1127120000** |
| TOZ 120VAC RC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127600000** |
| TOZ 230VAC RC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V AC +5 % / -10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection | **1127610000** |
| TOZ 120VAC RC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127350000** |
| TOZ 230VAC RC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V AC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection | **1127370000** |
| | | |
| TOP 120VAC RC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618650000** |
| TOP 230VAC RC 48VDC 0.1A | TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V AC ±10%. Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN connection | **2618620000** |
| TOP 120VAC RC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V AC ±10%. Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618660000** |
| TOP 230VAC RC 24VDC 2A | TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V AC ±10 % . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN connection | **2618670000** |
| TOP 120VAC RC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V AC ±10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618390000** |
| TOP 230VAC RC 230VAC 1A | TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V AC +5 % / -10 % . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN connection | **2618430000** |
| | | |



**Screw Clamp**



**Tension Clamp**

**PUSH IN**

# TERMSERIES Solid State Relays – Optocoupler Modules

## TERMOPTO Series

- Electrical isolation in terminal block format
- Space saving design with 6 mm width
- Integrated LEDs for clear status indication
- Wear-free semiconductor switch with extensive protective circuitry
- Choice of screw or PUSH IN terminals
- cULus listed

### Typical Applications

The TERMOPTO solid-state relay is for use in industrial applications where electrical isolation and signal conditioning without switching amplification is sufficient.

**TERMOPTO Series**

### DC Output Versions 100mA, 5 to 48 VDC

| Type | Connection Type | Rated Control Voltage | Rated Current | Order Number |
|---|---|---|---|---|
| TOS 5VDC/48VDC 0.1A | Screw | 5 VDC | 100mA | **8950700000** |
| TOP 5VDC/48VDC 0.1A | PUSH IN | 5 VDC | 100mA | **8950760000** |
| TOS 12VDC/48VDC 0.1A | Screw | 12 VDC | 100mA | **8950710000** |
| TOP 12VDC/48VDC 0.1A | PUSH IN | 12 VDC | 100mA | **8950770000** |
| TOS 24VDC/48VDC 0.1A | Screw | 24 VDC | 100mA | **8950720000** |
| TOP 24VDC/48VDC 0.1A | PUSH IN | 24 VDC | 100mA | **8950780000** |
| TOS 48-60VDC/48VDC 0.1A | Screw | 48...60 VDC | 100mA | **8950730000** |
| TOP 48-60VDC/48VDC 0.1A | PUSH IN | 48...60 VDC | 100mA | **8950790000** |
| TOS 110VDC/48VDC 0.1A | Screw | 110 VDC | 100mA | **8950740000** |
| TOP 110VDC/48VDC 0.1A | PUSH IN | 110 VDC | 100mA | **8950800000** |
| TOS 220VDC/48VDC 0.1A | Screw | 220 VDC | 100mA | **8950750000** |
| TOP 220VDC/48VDC 0.1A | PUSH IN | 220 VDC | 100mA | **8950810000** |
| TOS 24VAC/48VDC 0.1A | Screw | 24 VAC | 100mA | **8950820000** |
| TOP 24VAC/48VDC 0.1A | PUSH IN | 24 VAC | 100mA | **8950860000** |
| TOS 48-60VAC/48VDC 0.1A | Screw | 48...60 VAC | 100mA | **8950830000** |
| TOP 48-60VAC/48VDC 0.1A | PUSH IN | 48...60 VAC | 100mA | **8950870000** |
| TOS 120VAC/48VDC 0.1A | Screw | 120 VAC | 100mA | **8950840000** |
| TOP 120VAC/48VDC 0.1A | PUSH IN | 120 VAC | 100mA | **8950880000** |
| TOS 230VAC/48VDC 0.1A | Screw | 230 VAC | 100mA | **8950850000** |
| TOP 230VAC/48VDC 0.1A | PUSH IN | 230 VAC | 100mA | **8950890000** |

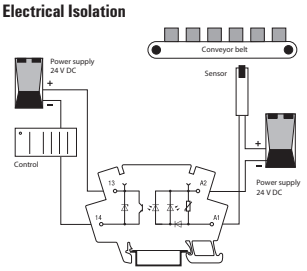
**Screw Clamp**

### DC Output Versions 500mA, 5 to 48 VDC

| Type | Connection Type | Rated Control Voltage | Rated Current | Order Number |
|---|---|---|---|---|
| TOS 5VDC/48VDC 0.5A | Screw | 5 VDC | 500mA | **8950900000** |
| TOS 5VDC/48VDC 0.5A | PUSH IN | 5 VDC | 500mA | **8950960000** |
| TOS 12VDC/48VDC 0.5A | Screw | 12 VDC | 500mA | **8950910000** |
| TOP 12VDC/48VDC 0.5A | PUSH IN | 12 VDC | 500mA | **8950970000** |
| TOS 24VDC/48VDC 0.5A | Screw | 24 VDC | 500mA | **8950920000** |
| TOP 24VDC/48VDC 0.5A | PUSH IN | 24 VDC | 500mA | **8950980000** |
| TOS 48-60VDC/48VDC 0.5A | Screw | 48...60 VDC | 500mA | **8950930000** |
| TOP 48-60VDC/48VDC 0.5A | PUSH IN | 48...60 VDC | 500mA | **8950990000** |
| TOS 110VDC/48VDC 0.5A | Screw | 110 VDC | 500mA | **8950940000** |
| TOP 110VDC/48VDC 0.5A | PUSH IN | 110 VDC | 500mA | **8951000000** |
| TOS 220VDC/48VDC 0.5A | Screw | 220 VDC | 500mA | **8950950000** |
| TOP 220VDC/48VDC 0.5A | PUSH IN | 220 VDC | 500mA | **8951010000** |
| TOS 24VAC/48VDC 0.5A | Screw | 24 VAC | 500mA | **8951020000** |
| TOP 24VAC/48VDC 0.5A | PUSH IN | 24 VAC | 500mA | **8951060000** |
| TOS 48-60VAC/48VDC 0.5A | Screw | 48...60 VAC | 500mA | **8951030000** |
| TOP 48-60VAC/48VDC 0.5A | PUSH IN | 48...60 VAC | 500mA | **8951070000** |
| TOS 120VAC/48VDC 0.5A | Screw | 120 VAC | 500mA | **8951040000** |
| TOP 120VAC/48VDC 0.5A | PUSH IN | 120 VAC | 500mA | **8951080000** |
| TOS 230VAC/48VDC 0.5A | Screw | 230 VAC | 500mA | **8951050000** |
| TOP 230VAC/48VDC 0.5A | PUSH IN | 230 VAC | 500mA | **8951090000** |

**PUSH IN**

**Electrical Isolation**




**DC Output Version**

# TERMOPTO Series - continued

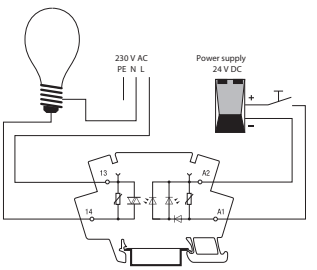
## AC Output Versions 100mA, 24 to 230 VAC

| Type | Connection Type | Rated Control Voltage | Rated Current | Order Number |
|---|---|---|---|---|
| TOS 5VDC/230VAC 0.1A | Screw | 5 VDC | 100mA | **8951100000** |
| TOP 5VDC/230VAC 0.1A | PUSH IN | 5 VDC | 100mA | **8951160000** |
| TOS 1 VDC/230VAC 0.1A | Screw | 12 VDC | 100mA | **8951110000** |
| TOP 12VDC/230VAC 0.1A | PUSH IN | 12 VDC | 100mA | **8951170000** |
| TOS 24VDC/230VAC 0.1A | Screw | 24 VDC | 100mA | **8951120000** |
| TOP 24VDC/230VAC 0.1A | PUSH IN | 24 VDC | 100mA | **8951180000** |
| TOS 48-60VDC/230VAC 0.1A | Screw | 48...60 VDC | 100mA | **8951130000** |
| TOP 48-60VDC/230VAC 0.1A | PUSH IN | 48...60 VDC | 100mA | **8951190000** |
| TOS 110VDC/230VAC 0.1A | Screw | 110 VDC | 100mA | **8951140000** |
| TOP 110VDC/230VAC 0.1A | PUSH IN | 110 VDC | 100mA | **8951200000** |
| TOS 220VDC/230VAC 0.1A | Screw | 220 VDC | 100mA | **8951150000** |
| TOP 220VDC/230VAC 0.1A | PUSH IN | 220 VDC | 100mA | **8951210000** |
| TOS 24VAC/230VAC 0.1A | Screw | 24 VAC | 100mA | **8951220000** |
| TOP 24VAC/230VAC 0.1A | PUSH IN | 24 VAC | 100mA | **8951260000** |
| TOS 48-60VAC/230VAC 0.1A | Screw | 48...60 VAC | 100mA | **8951230000** |
| TOP 48-60VAC/230VAC 0.1A | PUSH IN | 48...60 VAC | 100mA | **8951270000** |
| TOS 120VAC/230VAC 0.1A | Screw | 120 VAC | 100mA | **8951240000** |
| TOP 120VAC/230VAC 0.1A | PUSH IN | 120 VAC | 100mA | **8951280000** |
| TOS 230VAC/230VAC 0.1A | Screw | 230 VAC | 100mA | **8951250000** |
| TOP 230VAC/230VAC 0.1A | PUSH IN | 230 VAC | 100mA | **8951290000** |

**Screw Clamp**

**PUSH IN**

**Signal Conditioning**




**AC Output Version**

## AC Output Versions 4A, 3 to 33 VDC

| Type | Connection Type | Rated Control Voltage | Rated Current | Order Number |
|---|---|---|---|---|
| TOS 24VDC/24VDC 4A | Screw | 24 VDC | 4A | **1275100000** |
| TOP 24VDC/24VDC 4A | PUSH-IN | 24 VDC | 4A | **1254880000** |

# TERMOPTO ACCESSORIES

## Cross-connectors

| Type | Description | Order Number |
|---|---|---|
| ZQV 4N/2 | Orange, Accessories, 2 pole, Cross-connector, 32 A | **1527930000*** |
| ZQV 4N/2 BL | Blue, Accessories, 2 pole, Cross-connector, 32 A | **1528040000*** |
| ZQV 4N/2 RD | Red, Accessories, 2 pole, Cross-connector, 32 A | **2460450000*** |
| ZQV 4N/2 BK | Black, Accessories, 2 pole, Cross-connector, 32 A | **2810840000*[1]** |
| ZQV 4N/10 | Orange, Accessories, 10 pole, Cross-connector, 32 A | **1528090000*** |
| ZQV 4N/10 BL | Blue, Accessories, 10 pole, Cross-connector, 32 A | **1528230000*** |
| ZQV 4N/10 RD | Red, Accessories, 10 pole, Cross-connector, 32 A | **2460740000*** |
| ZQV 4N/10 BK | Black, Accessories, 10 pole, Cross-connector, 32 A | **2810830000*[1]** |
| ZQV 4N/20 | Orange, Accessories, 20 pole, Cross-connector, 32 A | **2883800000*[1]** |
| ZQV 4N/20 BL | Blue, Accessories, 20 pole, Cross-connector, 32 A | **2810850000*[1]** |
| ZQV 4N/20 RD | Red, Accessories, 20 pole, Cross-connector, 32 A | **2810860000*[1]** |
| ZQV 4N/20 BK | Black, Accessories, 20 pole, Cross-connector, 32 A | **2810870000*[1]** |
| ZQV 4N/30 | Orange, Accessories, 30 pole, Cross-connector, 32 A | **2561580000** |
| ZQV 4N/30 RD | Red, Accessories, 30 pole, Cross-connector, 32 A | **2561600000** |
| ZQV 4N/30 BL | Blue, Accessories, 30 pole, Cross-connector, 32 A | **2561610000** |
| ZQV 4N/41 BK | Black, Accessories, 41 pole, Cross-connector, 32 A | **2831890000[1]** |

* indicates new order number [1] in creation; articles will be visible in E-shop & online catalog once established

# MICROOPTO Series

## Features:

- Space saving 6.1 mm wide design
- Plug-in standard ZQV 4N cross-connection
- Suitable for labelling with the MultiCard system
- Suitable for mounting on TS35 rail
- Housing material made of WEMID (higher thermal stability in comparison with polyamide)
- cULus listed

MICROOPTO Series

## MICROOPTO – For special loads such as solenoids, actuators and high inductive loads up to 300VDC

| Type | Description | Order Number |
|---|---|---|
| MOS 24VDC/5-33VDC 10A | MICROOPTO SOLENOID. solid-state relay. 1 NO contact (POWER MOS-FET). Rated control voltage: 24 V DC ±20 %. Rated switching voltage: 5...33 V DC. Continuous current: 10 A. Screw connection | **8937940000** |
| MOS 24VDC/8-30VDC 2A | MICROOPTO. solid-state relay. 1 NO contact (Intelligent POWER MOS-FET). Rated control voltage: 24 V DC ±20 %. Rated switching voltage: 8...30 V DC. Continuous current: 2 A. Screw connection | **8937970000** |
| MOS 24VDC/12-300VDC 1A | MICROOPTO. solid-state relay. 1 NO contact (POWER MOS-FET). Rated control voltage: 24 V DC ±20 %. Rated switching voltage: 12...300 V DC. Continuous current: 1 A. Screw connection | **8937830000** |

## MICROOPTO – For high switching frequencies up to 100kHz

| Type | Description | Order Number |
|---|---|---|
| MOS 12-28VDC 100KHZ | MICROOPTO. solid-state relay. 1 NO contact (Transistor). Rated control voltage: 12 V DC...28 V DC . Rated switching voltage: 19.6...28.8 V DC. Continuous current: 50 mA. Screw connection | **8937990000** |

## MICROOPTO – For adjusting sensitive TTL signals to the typical voltage level of 24VDC

| Type | Description | Order Number |
|---|---|---|
| MOS 5VTTL/24VDC 0.1A | MICROOPTO. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 5 V TTL. Rated switching voltage: 24 VDC ±20%. Continuous current: 100 mA. Screw connection | **8937920000** |
| MOS 12-28VDC/5VTTL | MICROOPTO. solid-state relay. 1 NO contact (TTL). Rated control voltage: 12 V DC...28 V DC. Rated switching voltage: 5 V TTL. Continuous current: 50 mA. Screw connection | **8937930000** |

## MICROOPTO – For electronic modification and inversion

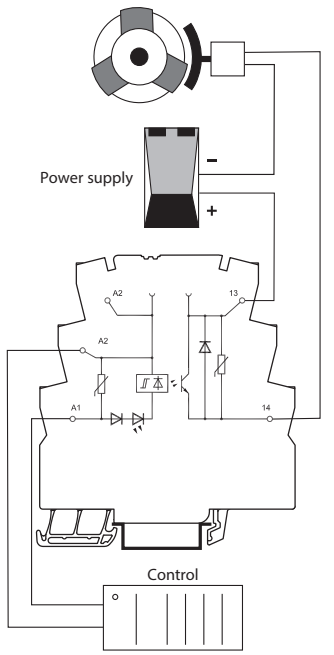
Electronic 1 CO contact used anywhere output signals need to be changed over. The input signal is directly switched through to the output side and inverted; as a result, the opto module can also be used as a pure inverter.

| Type | Description | Order Number |
|---|---|---|
| MOS 24VDC/5-48VDC 0.5A | MICROOPTO. solid-state relay. 1 CO contact (Transistor). Rated control voltage: 24 V DC ±20 % . Rated switching voltage: 5...48 V DC. Continuous current: 500 mA. Screw connection | **8937980000** |

## MICROOPTO ACCESSORIES
## Feed through terminal and supply module

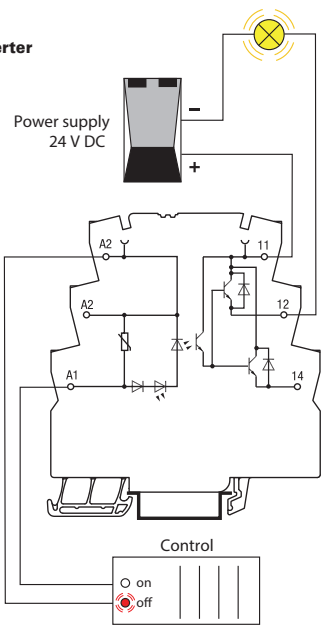
| Type | Description | Order Number |
|---|---|---|
| MOS FEED THROUGH | MICROOPTO. Feed-through terminal. Screw connection | **8973450000** |
| MOS SUPPLY | MICROOPTO. Supply module. Screw connection | **8973460000** |

**Example: motor brake**




MICROOPTO 300VDC

**e.g. Inverter**




MICROOPTO 1CO

# RIDERSERIES Relays

## Features:

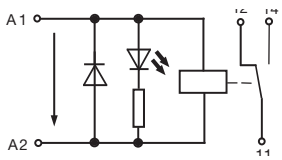
- Choice of screw clamp or PUSH IN connections
- Push-to-test levers available in all values and formats
- Color coded marking for AC and DC inputs
- Heavy duty industry standard relay pinning
- 3 Changeover Contact versions also available, see Catalog 4.2.
- CE, cURus, CSA approvals

RCI Kit

## RCI-Kit, 1 Changeover Contact 250VAC/16A, 16 mm in width

| Type | Conn. Type | Order Number |
|---|---|---|
| **Type with test button on relay** | | |
| RCIKIT 24VDC 1CO LD/PB | Screw | **8881580000** |
| RCIKITP 24VDC 1CO LD/PB | PUSH IN | **8897190000** |
| RCIKIT 24VAC 1CO LD/PB | Screw | **8881590000** |
| RCIKITP 24VAC 1CO LD/PB | PUSH IN | **8897200000** |
| RCIKIT 120VAC 1CO LD/PB | Screw | **8897060000** |
| RCIKITP 120VAC 1CO LD/PB | PUSH IN | **8897210000** |
| RCIKIT 230VAC 1CO LD/PB | Screw | **8881600000** |
| RCIKITP 230VAC 1CO LD/PB | PUSH IN | **8897220000** |

| Type | Conn. Type | Order Number |
|---|---|---|
| **Type without test button** | | |
| RCIKIT 24VDC 1CO LED | Screw | **8871000000** |
| RCIKITP 24VDC 1CO LD | PUSH IN | **8897110000** |
| RCIKIT 24VAC 1CO LED | Screw | **8871010000** |
| RCIKITP 24VAC 1CO LD | PUSH IN | **8897120000** |
| RCIKIT 120VAC 1CO LD | Screw | **8897090000** |
| RCIKITP 120VAC 1CO LD | PUSH IN | **8897130000** |
| RCIKIT 230VAC 1CO LED | Screw | **8871020000** |
| RCIKITP 230VAC 1CO LD | PUSH IN | **8897140000** |

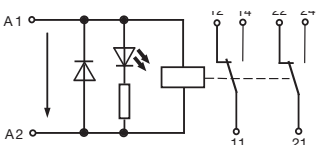



1 CO (SPDT)

## RCI-Kit, 2 Changeover Contact 250VAC/8A, 16 mm in width

| Type | Conn. Type | Order Number |
|---|---|---|
| **Type with test button on relay** | | |
| RCIKIT 24VDC 2CO LD/PB | Screw | **8881610000** |
| RCIKITP 24VDC 2CO LD/PB | PUSH IN | **8897230000** |
| RCIKIT 24VAC 2CO LD/PB | Screw | **8881620000** |
| RCIKITP 24VAC 2CO LD/PB | PUSH IN | **8897240000** |
| RCIKIT 120VAC 2CO LD/PB | Screw | **8897080000** |
| RCIKITP 120VAC 2CO LD/PB | PUSH IN | **8897250000** |
| RCIKIT 230VAC 2CO LD/PB | Screw | **8881630000** |
| RCIKITP 230VAC 2CO LD/PB | PUSH IN | **8897260000** |

| Type | Conn. Type | Order Number |
|---|---|---|
| **Type without test button** | | |
| RCIKIT 24VDC 2CO LED | Screw | **8871030000** |
| RCIKITP 24VDC 2CO LD | PUSH IN | **8897150000** |
| RCIKIT 24VAC 2CO LED | Screw | **8871040000** |
| RCIKITP 24VAC 2CO LD | PUSH IN | **8897160000** |
| RCIKIT 120VAC 2CO LD | Screw | **8897100000** |
| RCIKITP 120VAC 2CO LD | PUSH IN | **8897170000** |
| RCIKIT 230VAC 2CO LED | Screw | **8871050000** |
| RCIKITP 230VAC 2CO LD | PUSH IN | **8897180000** |




2 CO (DPDT)

## Accessories

| Type | Description | Order Number |
|---|---|---|
| **For PUSH IN socket** | SRC-IQV (Jumper to common 1CO and 2CO relays– coil points or contact points) | **8870840000** |
| **For Screw socket** | SRC-IQVS (Jumper to common 1CO and 2CO relays– coil points or contact points) | **1132070000** |

SRC-IQV

SRC-IQVS

## RCM-KIT, 2 Changeover Contact 240VAC/12A, 27 mm in width, with LED and test lever

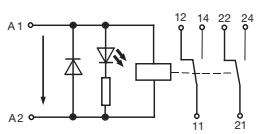
| Type | Connection Type | Coil Rating | Order Number |
|---|---|---|---|
| RCMKIT-I 24VDC 2CO LD | Screw | 24 VDC | **8920940000** |
| RCMKITP-I 24VDC 2CO LD | PUSH IN | 24 VDC | **8921080000** |
| RCMKIT-I 24VAC 2CO LD | Screw | 24 VAC | **8920950000** |
| RCMKITP-I 24VAC 2CO LD | PUSH IN | 24 VAC | **8921090000** |
| RCMKIT-I 115VAC 2CO LD | Screw | 115 VAC | **8920960000** |
| RCMKITP-I 115VAC 2CO LD | PUSH IN | 115 VAC | **8921100000** |
| RCMKIT-I 230VAC 2CO LD | Screw | 230 VAC | **8920970000** |
| RCMKITP-I 230VAC 2CO LD | PUSH IN | 230 VAC | **8921110000** |

## RCM-KIT, 4 Changeover Contact 240VAC/6A, 27 mm in width, with LED and test lever

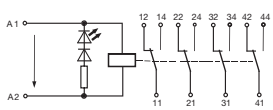
| Type | Connection Type | Coil Rating | Order Number |
|---|---|---|---|
| RCMKIT-I 24VDC 4CO LD | Screw | 24 VDC | **8921030000** |
| RCMKITP-I 24VDC 4CO LD | PUSH IN | 24 VDC | **8921120000** |
| RCMKIT-I 24VAC 4CO LD | Screw | 24 VAC | **8921040000** |
| RCMKITP-I 24VAC 4CO LD | PUSH IN | 24 VAC | **8921130000** |
| RCMKIT-I 115VAC 4CO LD | Screw | 115 VAC | **8921050000** |
| RCMKITP-I 115VAC 4CO LD | PUSH IN | 115 VAC | **8921140000** |
| RCMKIT-I 230VAC 4CO LD | Screw | 230 VAC | **8921060000** |
| RCMKITP-I 230VAC 4CO LD | PUSH IN | 230 VAC | **8921150000** |

RCM Kit

PUSH IN




2 CO




4 CO

## RIDERSERIES FG

| Type | Version | Contact | Continuous current | Rated control voltage | Connection | Qts | Order Number |
|---|---|---|---|---|---|---|---|
| RCIKIT 24VDC 2CO LD/FG | Complete module | 2 CO contacts forcibly guided (EN 61810-3 type B) AgCuNi | 6A | 24 V DC | Screw | 10 | **1218410000** |
| RCIKITZ 24VDC 2CO LD/FG | Complete module | 2 CO contacts forcibly guided (EN 61810-3 type B) AgCuNi | 6A | 24 V DC | Tension | 10 | **1218390000** |
| RCI42424FG | Individual relay | 2 CO contacts forcibly guided (EN 61810-3 type B) AgCuNi | 6A | 24 V DC | | 12 | **1218380000** |

## RIDERSERIES Jumpers

| Type | Connection Type | Description | Order Number |
|---|---|---|---|
| SCM-I QV | PUSH IN | 2 pole jumper to common 2CO and 4CO relays - coil points or contact points | **8870850000** |
| SCM-IQV S | Screw | 2 pole jumper to common 2CO and 4CO relays - coil points or contact points | **1132080000** |

**SCM-I QV**

**SCM-IQV S**

# D-SERIES

Our relay kits are particularly convenient to use. The kits are delivered fully assembled and 100% function tested. This saves assembly time and reduces the number of parts required.

### Features:

- Assembled kit consisting of relay, base and retaining clip, including label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with colored control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)

## D-SERIES DRI, SCREW & PUSH IN Kits, 1 Changeover Contact – 10A

| Type | Rated control voltage | Connection type | LED | Diode | Test button | Order Number |
|---|---|---|---|---|---|---|
| DRIKIT 12VDC 1CO LD/PB | 12 V DC | Screw | • | • | • | **2476740000** |
| DRIKIT 12VDC 1CO LD | 12 V DC | Screw | • | • | | **2476340000** |
| DRIKIT 24VDC 1CO LD/PB | 24 V DC | Screw | • | • | • | **2476750000** |
| DRIKITP 24VDC 1CO LD/PB | 24 V DC | PUSH IN | • | • | • | **2576210000** |
| DRIKIT 24VDC 1CO LD | 24 V DC | Screw | • | • | | **2476680000** |
| DRIKITP 24VDC 1CO LD | 24 V DC | PUSH IN | • | • | | **2576220000** |
| DRIKIT 48VDC 1CO LD/PB | 48 V DC | Screw | • | • | • | **2476760000** |
| DRIKIT 48VDC 1CO LD | 48 V DC | Screw | • | • | | **2476690000** |
| DRIKIT 110VDC 1CO LD/PB | 110 V DC | Screw | • | • | • | **2476770000** |
| DRIKIT 110VDC 1CO LD | 110 V DC | Screw | • | | | **2476700000** |
| DRIKIT 24VAC 1CO LD/PB | 24 V AC | Screw | • | | • | **2476780000** |
| DRIKITP 24VAC 1CO LD/PB | 24 V AC | PUSH IN | • | | • | **2576250000** |
| DRIKIT 24VAC 1CO LD | 24 V AC | Screw | • | | | **2476710000** |
| DRIKITP 24VAC 1CO LD | 24 V AC | PUSH IN | • | | | **2576260000** |
| DRIKIT 115VAC 1CO LD/PB | 115 V AC | Screw | • | | • | **2476790000** |
| DRIKITP 115VAC 1CO LD/PB | 115 V AC | PUSH IN | • | | • | **2576180000** |
| DRIKIT 115VAC 1CO LD | 115 V AC | Screw | • | | | **2476720000** |
| DRIKITP 115VAC 1CO LD | 115 V AC | PUSH IN | • | | | **2575980000** |
| DRIKIT 230VAC 1CO LD/PB | 230 V AC | Screw | • | | • | **2476800000** |
| DRIKITP 230VAC 1CO LD/PB | 230 V AC | PUSH IN | • | | • | **2576160000** |
| DRIKIT 230VAC 1CO LD | 230 V AC | Screw | • | | | **2476730000** |
| DRIKITP 230VAC 1CO LD | 230 V AC | PUSH IN | • | | | **2576280000** |

**Screw Clamp**

**PUSH IN**

## D-SERIES DRI Kit, SCREW & PUSH IN Kits, 2 Changeover Contact – 5A

| Type | Rated control voltage | Connection type | LED | Diode | Test button | Order Number |
|---|---|---|---|---|---|---|
| DRIKIT 12VDC 2CO LD/PB | 12 V DC | Screw | • | • | • | **2476880000** |
| DRIKIT 12VDC 2CO LD | 12 V DC | Screw | • | • | | **2476810000** |
| DRIKIT 24VDC 2CO LD/PB | 24 V DC | Screw | • | • | • | **2476890000** |
| DRIKITP 24VDC 2CO LD/PB | 24 V DC | PUSH IN | • | • | • | **2576190000** |
| DRIKIT 24VDC 2CO LD | 24 V DC | Screw | • | • | | **2476820000** |
| DRIKITP 24VDC 2CO LD | 24 V DC | PUSH IN | • | • | | **2576200000** |
| DRIKIT 48VDC 2CO LD/PB | 48 V DC | Screw | • | • | • | **2476900000** |
| DRIKIT 48VDC 2CO LD | 48 V DC | Screw | • | • | | **2476830000** |
| DRIKIT 110VDC 2CO LD/PB | 110 V DC | Screw | • | • | • | **2476910000** |
| DRIKIT 110VDC 2CO LD | 110 V DC | Screw | • | • | | **2476840000** |
| DRIKIT 24VAC 2CO LD/PB | 24 V AC | Screw | • | | • | **2476920000** |
| DRIKIT 24VAC 2CO LD | 24 V AC | Screw | • | | | **2476850000** |
| DRIKITP 24VAC 2CO LD | 24 V AC | PUSH IN | • | | | **2576240000** |
| DRIKIT 115VAC 2CO LD/PB | 115 V AC | Screw | • | | • | **2476930000** |
| DRIKITP 115VAC 2CO LD/PB | 115 V AC | PUSH IN | • | | • | **2576170000** |
| DRIKIT 115VAC 2CO LD | 115 V AC | Screw | • | | | **2476860000** |
| DRIKITP 115VAC 2CO LD | 115 V AC | PUSH IN | • | | | **2576290000** |
| DRIKIT 230VAC 2CO LD/PB | 230 V AC | Screw | • | | • | **2476940000** |
| DRIKITP 230VAC 2CO LD/PB | 230 V AC | PUSH IN | • | | • | **2576150000** |
| DRIKIT 230VAC 2CO LD | 230 V AC | Screw | • | | | **2476870000** |
| DRIKITP 230VAC 2CO LD | 230 V AC | PUSH IN | • | | | **2576270000** |

**Screw Clamp**

**PUSH IN**

## D-SERIES DRM, SCREW & PUSH IN Kits, 2 Changeover Contact – 10A

| Type | Rated control voltage | Connection type | LED | Diode | Test button | Order Number |
|---|---|---|---|---|---|---|
| DRMKIT 24VDC 2CO LD/PB | 24 V DC | Screw | • | • | • | **1542460000** |
| DRMKITP 24VDC 2CO LD/PB | 24 V DC | PUSH IN | • | • | • | **2576120000** |
| DRMKIT 24VDC 2CO LD | 24 V DC | Screw | • | • | | **1542360000** |
| DRMKITP 24VDC 2CO LD | 24 V DC | PUSH IN | • | • | | **2576110000** |
| DRMKIT 24VAC 2CO LD/PB | 24 V AC | Screw | • | | • | **1542480000** |
| DRMKITP 24VAC 2CO LD/PB | 24 V AC | PUSH IN | • | | • | **2576080000** |
| DRMKIT 24VAC 2CO LD | 24 V AC | Screw | • | | | **1542380000** |
| DRMKITP 24VAC 2CO LD | 24 V AC | PUSH IN | • | | | **2576070000** |
| DRMKIT 220VAC 2CO LD/PB | 220 V AC | Screw | • | • | • | **1542470000** |
| DRMKIT 220VAC 2CO LD | 220 V AC | Screw | • | • | | **1542370000** |
| DRMKIT 230VAC 2CO LD | 230 V AC | Screw | • | | | **1542390000** |
| DRMKITP 230VAC 2CO LD | 230 V AC | PUSH IN | • | | | **2576030000** |
| DRMKIT 230VAC 2CO LD/PB | 230 V AC | Screw | • | | • | **1542490000** |
| DRMKITP 230VAC 2CO LD/PB | 230 V AC | PUSH IN | • | | • | **2576040000** |

**Screw Clamp**

**PUSH IN**

## D-SERIES DRM Kit, SCREW & PUSH IN Kits, 4 Changeover Contact – 5A

| Type | Rated control voltage | Connection type | LED | Diode | Test button | Order Number |
|---|---|---|---|---|---|---|
| DRMKIT 24VDC 4CO LD/PB | 24 V DC | Screw | • | • | • | **1542510000** |
| DRMKITP 24VDC 4CO LD/PB | 24 V DC | PUSH IN | • | • | • | **2576140000** |
| DRMKIT 24VDC 4CO LD | 24 V DC | Screw | • | • | | **1542410000** |
| DRMKITP 24VDC 4CO LD | 24 V DC | PUSH IN | • | • | | **2576130000** |
| DRMKIT 24VAC 4CO LD/PB | 24 V AC | Screw | • | | • | **1542530000** |
| DRMKITP 24VAC 4CO LD/PB | 24 V AC | PUSH IN | • | | • | **2576100000** |
| DRMKIT 24VAC 4CO LD | 24 V AC | Screw | • | | | **1542430000** |
| DRMKITP 24VAC 4CO LD | 24 V AC | PUSH IN | • | | | **2576090000** |
| DRMKIT 220VAC 4CO LD/PB | 220 V AC | Screw | • | • | • | **1542520000** |
| DRMKIT 220VAC 4CO LD | 220 V AC | Screw | • | • | | **1542420000** |
| DRMKIT 230VAC 4CO LD | 230 V AC | Screw | • | | | **1542450000** |
| DRMKITP 230VAC 4CO LD | 230 V AC | PUSH IN | • | | | **2576050000** |
| DRMKIT 230VAC 4CO LD/PB | 230 V AC | Screw | • | | • | **1542540000** |
| DRMKITP 230VAC 4CO LD/PB | 230 V AC | PUSH IN | • | | • | **2576060000** |

**Screw Clamp**

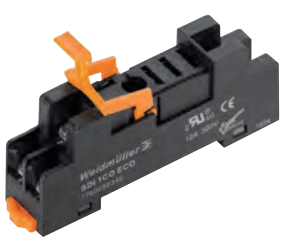
**PUSH IN**

## D-SERIES ACCESSORIES

### DRI & DRM Cross-connectors/Sockets/LED protection modules/Retaining clip/Marker Sockets

| Type | Description | Connection type | Order Number |
|---|---|---|---|
| SDI 1CO | For DRI: 1 CO contact, 12A | Screw | **7760056350** |
| SDI 2CO | For DRI: 2 CO contact, 8A | Screw | **7760056351** |
| SDI 1CO P | For DRI: 1 CO contact, 12A | PUSH IN | **7760056364** |
| SDI 2CO P | For DRI: 2 CO contact, 8A | PUSH IN | **7760056365** |
| SCM 2CO ECO | For DRM: 2 CO contact, 12A | Screw | **7760056263** |
| SCM 4CO ECO | For DRM: 4 CO contact, 6A | Screw | **7760056264** |
| SCM 2CO P | For DRM: 2 CO contact, 12A | PUSH IN | **7760056362** |
| SCM 4CO P | For DRM: 4 CO contact, 6A | PUSH IN | **7760056363** |

**D-SERIES Retaining Clip**



## LED/Protection Modules

| Type | Rated control voltage | Protective Circuit | LED | Order Number |
|---|---|---|---|---|
| RIM 1 6/230VDC | 6 - 230 V DC | For DRI: Free-wheel diode | | **7760056169** |
| RIM 2 6/24VDC | 6 - 24 V DC | For DRI: Free-wheel diode | • | **7760056015** |
| RIM 2 24/60VDC | 24 - 60 V DC | For DRI: Free-wheel diode | • | **7760056016** |
| RIM 2 110/230VDC | 110 - 230 V DC | For DRI: Free-wheel diode | • | **7760056017** |
| RIM 3 6/24VUC | 6 - 24 V UC | For DRI | • | **7940018457*** |
| RIM 3 24/60VUC | 24 - 60 V UC | For DRI | • | **7760056018** |
| RIM 3 110/230VUC | 110 - 230 V UC | For DRI | • | **7940018455** |
| RIM 3 110/230VAC LED* | 110 - 230 V AC | For DRI: RC-Filter | • | **7760056045** |
| RIM 3 110/230VAC | 110 - 230 V AC | For DRI: RC-Filter | | **7760056014** |
| RIM 1 6/230VDC | 6 - 230 V DC | For DRM: Free-wheel diode | | **7760056169** |
| RIM 2 6/24VDC | 6 - 24 V DC | For DRM: Free-wheel diode | • | **7760056015** |
| RIM 2 24/60VDC | 24 - 60 V DC | For DRM: Free-wheel diode | • | **7760056016** |
| RIM 2 110/230VDC | 110 - 230 V DC | For DRM: Free-wheel diode | • | **7760056017** |
| RIM 3 6/24VUC | 6 - 24 V UC | For DRM | • | **7940018457*** |
| RIM 3 24/60VUC | 24 - 60 V UC | For DRM | • | **7760056018** |
| RIM 3 110/230VUC | 110 - 230 V UC | For DRM | • | **7940018455*** |
| RIM 3 110/230VAC LED | 110 - 230 V AC | For DRM: RC-Filter | • | **7760056045** |
| RIM 3 110/230VAC | 110 - 230 V AC | For DRM: RC-Filter | | **7760056014** |

* indicates new order number

## Retaining clip/Cross connectors/markers

| Type | Version | Order Number |
|---|---|---|
| **Retaining clip** | | |
| SDI CLIP | For DRI: Plastic retaining clip | **7760056352** |
| SDI CLIP P | For DRI: Plastic retaining clip with marker holder | **7760056389** |
| SDI CLIP HM | For DRI: Metal retaining clip for Relays with test button | **7760056390** |
| SDI CLIP LM | For DRI: Metal retaining clip for Relays without test button | **7760056368** |
| DRM/DRL CLIP M | For DRM: DRM/DRL CLIP M Metal retaining clip | **7760056108** |
| SCM CLIP P | For DRM: SCM CLIP P Plastic retaining clip with marker holder | **7760056389** |
| **Cross connectors** | | |
| SRC-I QV S | For DRI: Screw socket | **1132070000** |
| SCM/SDI P CC | For DRI: PUSH IN socket | **7760056366** |
| SCM-I QV S | For DRM: Screw socket | **1132080000** |
| SCM/SDI P CC | For DRM: PUSH IN socket | **7760056366** |
| **Marker** | | |
| ESG 6/15 SDI MC NE WS | For DRI: MultiCard white | **2558340000** |
| ESG 9/26 SCM ECO MC NE WS | For DRM: MultiCard white | **1520980000** |

# TFI SERIES

Timing relays are used in automation technology to compensate for errors due to short cycle times.

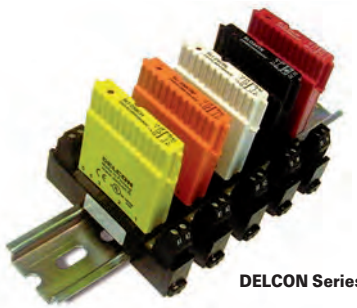
### Features:

- Installation design
- Single- and multifunction
- Width 17.5 mm, 1 changeover contact
- cULus listed, CE conformity marking
- Recessed potentiometer buttons, analog indication of LED

| Type | Rated Control | Contact Type | Timing Function | Order Number |
|---|---|---|---|---|
| TFIS 12-240VUC 1CO CG | 12-240 V UC | 1 CO | Li, Lp | **2697260000** |
| TFIS 12-240VUC 1CO M7C | 12-240 V UC | 1 CO | Bp, E, Es, R Wa, Ws, Wu | **2697250000** |
| TFIS 24-240VUC 1CO OFFC | 24-240 V UC | 1 CO | R | **2697290000** |
| TFIS 24-240VUC 1CO ON | 24-240 V UC | 1 CO | E | **2697280000** |
| TFIS 12-240VUC 2NO SD | 12-240 V UC | 2 NO | S | **2697270000** |

# DELCON Series Relays

- Fast switching
- cULus listed
- Pulse transformer technology for critical loads and difficult environments
- High transient immunity for use in applications with electrical noise
- Virtually no off-state leakage current
- High current and high voltage DC output versions



DELCON Series

### Input Modules

| Description | Control Voltage | DELCON Model | Order Number |
|---|---|---|---|
| **AC apps. / input relays - DC low current output** | | | |
| Regular operation | 24 VAC | **SLI25CR** | **7940099446*** |
| Regular operation | 48 VAC | **SLI49CR** | **7940112286*** |
| Normally closed | 120 VAC | **SLI120CRI** | **7940112604*** |
| Transient protection added on output | 120 VAC | **SLI120CH** | **7940099445*** |
| Regular operation | 120 VAC | **SLI120CR** | **7940098943*** |
| 3.5mA leakage immunity on input | 120 VAC | **SLI120CRP** | **7940099104*** |
| Transient protection added on input | 230 VAC | **SLI230CH** | **7940112282*** |
| Regular operation | 230 VAC | **SLI230CR** | **7940112283*** |
| Normally closed | 230 VAC | **SLI230CRI** | **7940099117*** |
| 3.5mA leakage immunity on input | 230 VAC | **SLI230CRP** | **7940099024*** |
| **DC apps. / input relays - DC low current output** | | | |
| Regular operation | 12 VDC | **SLI12CR** | **7940104932*** |
| Regular operation | 24 VDC | **SLI24CR** | **7940098981*** |
| Fast switching, 10,000 Hz | 24 VDC | **SLI24CRF** | **7940099039*** |
| To maintain min. input load 15 mA | 24 VDC | **SLI24CRL** | **7940112284*** |
| Regular operation | 48 VDC | **SLI48CR** | **7940112163*** |
| Transient protection added on input | 125 VDC | **SLI125CH** | **6486890000*** |
| Regular operation | 125 VDC | **SLI125CR** | **7940099018*** |
| Transient protection added on input | 250 VDC | **SLI250CH** | **7940112285*** |
| Regular operation | 250 VDC | **SLI250CR** | **7940099068*** |
| **Plug-in bases** | | | |
| TS35 DIN Rail Mounting base—Tension Clamp (12.8 mm wide) | | **MIS1CCN** | **7940099167*** |
| TS35 DIN Rail Mounting base—Screw Clamp (12.8 mm wide) | | **MIS1GN** | **7940099031*** |

*** indicates new order number**

DELCON series relays utilize a patented pulse transformer technology offering numerous advantages over electromechanical relays and solid-state opto-couplers.

Visit our relays selector guide for more information.

www.weidmuller.com/delcon

## Output Modules

| Description | Control Voltage | DELCON Model | Order Number |
|---|---|---|---|
| **AC apps. / output relays - AC/DC input voltage** | | | |
| Fast AC switching, off-delay 0.5 ms | 5 VDC | **SLO5IRA** | **7940099516*** |
| Regular operation | 5 VDC | **SLO5TR** | **7940099091*** |
| Regular operation | 12 VDC | **SLO12TR** | **7940099448*** |
| Fast AC switching, off-delay 0.5 ms | 24 VDC | **SLO24IRA** | **7940098912*** |
| Transient protection added | 24 VDC | **SLO24TH** | **7940110577*** |
| Regular operation | 24 VDC | **SLO24TR** | **7940098825*** |
| Regular operation | 120 VAC | **SLOA120TR** | **7940099189*** |
| 2mA leakage immunity on input | 120 VAC | **SLOP120TR** | **7940099129*** |
| Regular operation | 230 VAC | **SLOA230TR** | **7940099447*** |
| 2mA leakage immunity on input | 230 VAC | **SLOP230TR** | **7940112287*** |
| Electromechanical relay, make (NO) | 24 VDC | **SRO24M** | **7940099169*** |
| Electromechanical relay, break (NC) | 24 VDC | **SRO24B** | **7940104938*** |
| **DC apps. / output relays - DC input voltage** | | | |
| 100 ms time constant[1] | 5 VDC | **SLO5CRA** | **7940112289*** |
| Normal use | 5 VDC | **SLO5CR** | **7940110578*** |
| High current, resistive load | 5 VDC | **SLO5CRX** | **7940099450*** |
| Normal use | 12 VDC | **SLO12CR** | **7940112635*** |
| 100 ms time constant[1] | 12 VDC | **SLO12CRA** | **7940110576*** |
| High current, resistive load | 12 VDC | **SLO12CRX** | **7940099521*** |
| 100 ms time constant[1] | 24 VDC | **SLO24CRA** | **7940098898*** |
| Normal use | 24 VDC | **SLO24CR** | **7940098777*** |
| 50 ms time constant[1] | 24 VDC | **SLO24CRA4** | **7940098869*** |
| High current, resistive load | 24 VDC | **SLO24CRX** | **7940098794*** |
| **Plug-in bases** | | | |
| TS35 DIN Rail Mounting base—<br>Tension Clamp (12.8 mm wide) | | **MOS1CCN** | **7940098775*** |
| TS35 DIN Rail Mounting base—<br>Screw Clamp (12.8 mm wide) | | **MOS1GN** | **7940098804*** |

[1] L/R max. @ 24 V load voltage and max. current

* indicates new order number

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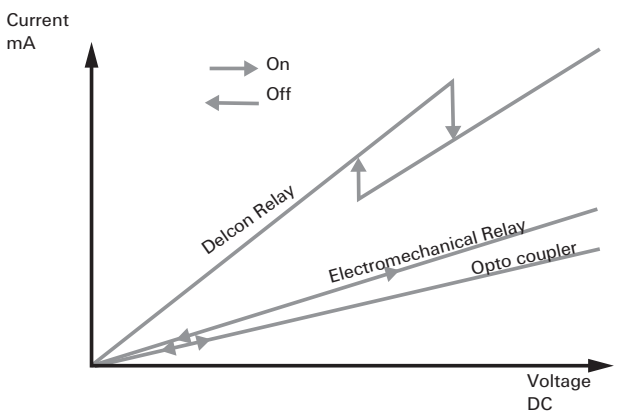
**Voltage/current - signal diagram**




### Add reliability to a control system

Delcon Series relays improve the reliability of the whole control system. The exceptionally clear function and condition indication of Delcon Series relays is based on a unique current-voltage-hysteresis that guarantees 100% switching and signalling even under the worst conditions.

# DELCON Series Relays for Hazardous Areas

DELCON Series Relays help to eliminate interference, signal disturbances, inductive loads, high DC voltages and costly relay replacements. DELCON series relays are solid state relays for demanding conditions.

## Features

- Pulse Transformer Isolation
- Superior galvanic isolation 4kV
- Switches highly inductive loads (AC and DC)
- Switches high DC voltages
- Excellent immunity to interferences
- Long lifetime – 10 year warranty
- Hazardous Area Approvals (both EX and UL)
- cULus Listed HazLoc, ATEX, IECEx, CE (EMC and LVD)

## Input (Relay) Modules

| Description | Control Voltage | Typical Application | DELCON Model | Order Number |
|---|---|---|---|---|
| 12 VDC - Regular operation | 7.5 -14 VDC | Limit Switches | **EXI12CH** | **7940115701*** |
| 24 VDC - Regular operation | 16 - 28 VDC | Limit Switches | **EXI24CH** | **7940099335*** |
| 24 VDC - Fast DC switching, 10/25 µs | 16 - 28 VDC | Fast Connections | **EXI24CHF** | **7940115702*** |
| 24 VDC - Increased Input Current | 16 - 28 VDC | Increased Input Current | **EXI24CHL** | **7940115709*** |
| 24 VAC - Regular operation | 16 - 24 VAC | Limit Switches | **EXI25CH** | **7940112873*** |
| 48 VDC - Regular operation | 36 - 48 VDC | Limit Switches | **EXI48CH** | **7940112874*** |
| 48 VAC - Regular operation | 35 - 48 VDC | Limit Switches | **EXI49CH** | **7940112875*** |
| 120 VAC - Regular operation | 80 - 120 VAC | Limit Switches | **EXI120CH** | **7940099334*** |
| 120 VAC - Normally closed | 80 - 120 VAC | Normally closed operation | **EXI120CHI** | **7940112876*** |
| 120 VAC - Regular operation w/proxy | 80 - 120 VAC | 2 wire Prox switches | **EXI120CHP** | **7940115703*** |
| 120 VDC - Regular operation | 80 - 120 VAC | Limit Switches | **EXI125CH** | **7940099334*** |
| 230 VAC - Regular operation | 170 - 230 VAC | Limit Switches | **EXI230CH** | **7940115847*** |
| 230 VAC - Normally closed | 170 - 230 VAC | Normally closed operation | **EXI230CHI** | **7940112877*** |
| 230 VAC - Regular operation w/proxy | 170 - 230 VAC | 2 wire Prox switches | **EXI230CHP** | **7940112878*** |
| 230 VAC - Current limiting Secondary | 170 - 230 VAC | Output Current Limited | **EXI230CHR** | **7940112879*** |
| 250 VDC - Regular operation | 170 - 250 VAC | Limit Switches | **EXI250CH** | **7940112880*** |

## Rail Mount Bases for Input Relays

| Description | Connection Type | DELCON Model | Order Number |
|---|---|---|---|
| DIN socket for EXI Input Relay | Tension clamp | **MIS1CCNEX** | **7940115708*** |
| DIN socket for EXI Input Relay | Screw clamp | **MIS1GNEX** | **7940099401*** |

*** indicates new order number**

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Visit our relays selector guide for more information.

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## Output (Relay) Modules

| Description | Control Voltage | Typical Application | DELCON Model | Order Number |
|---|---|---|---|---|
| 5 VDC/0...60 VDC 3 A | 2.7 - 5 VDC | Inductive Loads | **EXO5CH** | **7940112889*** |
| 5 VDC/0...250 VDC 1.8 A | 2.7 - 5 VDC | Inductive Loads | **EXO5CHA** | **7940112890*** |
| 5 VDC/0...24 VDC 10 A | 2.7 - 5 VDC | Resistive Loads | **EXO5CHX** | **7940112891*** |
| 5 VDC/0...240/ 250 VAC/VDC 1.2 A | 2.7 - 5 VDC | Fast Switch Off | **EXO5IHA** | **7940112893*** |
| 5 VDC/0...240 VAC 3 A | 2.7 - 5 VDC | AC Loads | **EXO5TH** | **7940112894*** |
| 12 VDC/0...60 VDC 3 A | 8 - 14 VDC | Resistive Loads | **EXO12CH** | **7940115704*** |
| 12 VDC/0...250 VDC 1.8 A | 8 - 14 VDC | Inductive Loads | **EXO12CHA** | **7940115705*** |
| 12 VDC/0...24 VDC 10 A | 8 - 14 VDC | Resistive Loads | **EXO12CHX** | **7940104695*** |
| 12 VDC/0...240 VAC 3 A | 8 - 14 VDC | AC Loads | **EXO12TH** | **7940115706*** |
| 24 VDC/0...60 VDC 3 A | 16 - 28 VDC | Resistive Loads | **EXO24CH** | **7940098930*** |
| 24 VDC/0...250 VDC 1.8 A | 16 - 28 VDC | Inductive Loads | **EXO24CHA** | **7940098994*** |
| 24 VDC/0...250 VDC 4 A | 16 - 28 VDC | Inductive Loads | **EXO24CHA4** | **7940104696*** |
| 24 VDC/0...24 VDC 10 A | 16 - 28 VDC | | **EXO24CHX** | **7940099336*** |
| 24 VDC/0...240/ 250 VAC/VDC 1,2 A | 16 - 28 VDC | Fast Switch Off | **EXO24IHA** | **7940115707*** |
| 24 VDC/0... 240 VAC 3 A, Snubber | 16 - 28 VDC | Wide Temp Operating Range | **EXO24TH** | **7940099338*** |
| 24 VDC/0...240 VAC 3 A | 16 - 28 VDC | AC Loads | **EXO24TR** | **7940099339*** |
| 48 VDC/0...250 VDC 1.8 A | 30 - 48 VDC | Inductive Loads | **EXO48CHA** | **7940112911*** |
| 48 VDC/0...250 VDC 4 A | 30 - 48 VDC | Inductive Loads | **EXO48CHA4** | **7940112912*** |
| 48 VDC/0...24 VDC 10 A | 30 - 48 VDC | Resistive Loads | **EXO48CHX** | **7940112913*** |
| 120 VDC/0...250 VDC 1.8 A | 80 - 120 VDC | Inductive Loads | **EXO120CHA** | **7940112915*** |
| 120 VDC/0...250 VDC 4 A | 80 - 120 VDC | Inductive Loads | **EXO120CHA4** | **7940112916*** |
| 220 VDC/0...250 VDC 1.8 A | 170 - 220 VDC | Inductive Loads | **EXO220CHA** | **7940112917*** |
| 220 VDC/0...250 VDC 4 A | 170 - 220 VDC | Inductive Loads | **EXO220CHA4** | **7940112918*** |
| 120 VAC/0...240 VAC 3 A | 80 - 120 VAC | AC Loads | **EXOP120TH** | **7940098926*** |
| 230 VAC/0...240 VAC 1.5 A | 170 - 230 VAC | AC Loads | **EXOP230TH** | **7940115848*** |

## Rail Mount Bases for Output Relays

| Description | Connection Type | DELCON Model | Order Number |
|---|---|---|---|
| DIN socket for EXI Output Relay | Tension clamp | **MOS1CCNEX** | **7940099109*** |
| DIN socket for EXI Output Relay | Screw clamp | **MOS1GNEX** | **7940098915*** |
| DIN socket for EXI Output Relay with test points | Screw clamp | **MOS1TNEX** | **7940117712*** |

## EXO Series DIN-rail modules
## Relay soldered connected to DIN base (no socket)

| Description | Control Voltage | DELCON Model | Order Number |
|---|---|---|---|
| Output relay 5VDC/0...24VDC 10A | 2.7 - 5 VDC | **EXO5CHXSN** | **7940112892*** |
| Output relay 12VDC/0...24VDC 10A | 8 - 14 VDC | **EXO12CHXSN** | **7940112895*** |
| Output relay 24VDC/0...24VDC 10A | 16 - 28 VDC | **EXO24CHXSN** | **7940099337*** |
| Output relay 48VDC/0...24VDC 10A | 30 - 48 VDC | **EXO48CHXSN** | **7940112914*** |

* indicates new order number

DELCON series relays utilize a patented pulse transformer technology offering numerous advantages over electromechanical relays and solid-state opto-couplers.

Visit our relays selector guide for more information.

www.weidmuller.com/delcon

# SAFESERIES Contact Extension

## Pluggable relay modules with positively driven contacts

### Monitoring the switching states of signals in safety applications

Relay modules with positively driven contacts are used for functional safety. The SAFESERIES Contact Extension uses relays with forcibly giuded contacts in accordance with EN 61810-3 Type A. This makes it predestined for signal monitoring in applications for the protection of people and machinery.

The SAFESERIES Contact Extension ensures safe feedback to the control level. It consists of 4 different pluggable relays with matching screw sockets in the contact version 2 NO + 2 NC, 3 NO + 1 NC, 5 NO + 1 NC, 4 NO + 2 NC, and 3 NO + 3 NC. When the application is designed according to EN/ISO 13849-1, a performance level of PL „e“ can be achieved. The basic component is also suitable for safety applications according to IEC/EN 62061 in order to achieve a safety integrity level of SIL3.

### Features and benefits

- **Proven component**
  Suitable as a safe contact multiplier with matching safety switching devices and the remote I/O System “u-remote”. The positive drive ensures synchronous switching status at the contacts and achieves a diagnostic coverage of 99 %.
- **Easy installation**
  The socket allows easy installation on the mounting rail. It features a freewheeling diode, a status LED and an ejection lever. The use of ring and fork cable lugs is possible.
- **Comprehensive approvals**
  The cULus listed designation saves the cost of an overall system approval in North America. The CQC marking proves conformity with Chinese quality, environmental and performance standards.

### KITS - Socket inclusive relay

| Type | Rated control voltage | Contact Type | Continuous current | Connection | Qty | Order Number |
|---|---|---|---|---|---|---|
| FSKIT 24VDC 3NO1NC FG LD AGSNO AU | 24 V DC | 3NO1NC, forcibly guided (EN 61810-3 Typ A) | 6 A | Screw connection | 1 | **2759070000** |
| FSKIT 24VDC 2NO2NC FG LD AGSNO AU | 24 V DC | 2NO2NC, forcibly guided (EN 61810-3 Typ A) | 6 A | Screw connection | 1 | **2759080000** |
| FSKIT 24VDC 5NO1NC FG LD AGSNO AU | 24 V DC | 5NO1NC, forcibly guided (EN 61810-3 Typ A) | 6 A | Screw connection | 1 | **2860020000** |
| FSKIT 24VDC 4NO2NC FG LD AGSNO AU | 24 V DC | 4NO2NC, forcibly guided (EN 61810-3 Typ A) | 6 A | Screw connection | 1 | **2759090000** |
| FSKIT 24VDC 3NO3NC FG LD AGSNO AU | 24 V DC | 3NO3NC, forcibly guided (EN 61810-3 Typ A) | 6 A | Screw connection | 1 | **2759100000** |

### Individual relays

| Type | Rated control voltage | Contact Type | Continuous current | Contact material | Qty | Order Number |
|---|---|---|---|---|---|---|
| FSR0315024 FG | 24 V DC | 3NO1NC, forcibly guided (EN 61810-3 Typ A) | 6 A | AgSnO gold-plated | 1 | **2759030000** |
| FSR0225024 FG | 24 V DC | 2NO2NC, forcibly guided (EN 61810-3 Typ A) | 6 A | AgSnO gold-plated | 1 | **2759040000** |
| FSR0515024 FG | 24 V DC | 5NO1NC, forcibly guided (EN 61810-3 Typ A) | 6 A | AgSnO gold-plated | 1 | **2860030000** |
| FSR0425024 FG | 24 V DC | 4NO2NC, forcibly guided (EN 61810-3 Typ A) | 6 A | AgSnO gold-plated | 1 | **2759050000** |
| FSR0335024 FG | 24 V DC | 3NO3NC, forcibly guided (EN 61810-3 Typ A) | 6 A | AgSnO gold-plated | 1 | **2759060000** |

# SIL Relays (SAFESeries)

Weidmuller's single and dual channel, rail mounted SCS Series are relay modules designed for switching safety related circuits up to SIL3 level, according to IEC 61508, for high risk installations.

The SCS Series is part of Weidmüller's broad range of high reliability electronics and electrical products designed for the process and factory automation industries worldwide.

- SIL relays for process emergency shut-down systems
- Certified cULus and IEC 61508 for SIL3 (TÜV)
- Energized or de-energized to safe mode
- Single and two channel Types
- Monitoring options with wide-range input voltages

The SCS 24VDC P1 SIL3DS safety relay is used in areas that require a functionally safe shut down.

- With and without monitoring circuit
- Wide-range input voltage
- Externally accessible fuse
- TÜV certified

| Type | Description | Order Number |
|---|---|---|
| SCS 24VDC P1 SIL3DS M | with monitoring | **1303760000** |
| SCS 24VDC P1 SIL3DS | without monitoring | **1303890000** |
| SCS 24VDC P1 SIL3D3 MG3 | with monitoring and G3 gas-corrosion resistant | **1304040000** |

The SCS 24VDC P2 SIL3DSES is used in areas that require functionally safe deactivation or activation.

- Energized/de-energized to safe
- Test inputs for testing relay contacts
- Externally accessible fuse
- TÜV certified

| Type | Description | Order Number |
|---|---|---|
| SCS 24VDC P2 SIL3DSES | 1 energized to safe (NO contact) | **1319270000** |
| | 1 de-energized to safe (NO contact) | |

The SCS 24VDC P2SIL3ES offers a SIL3 approved fuel cut-off relay which interfaces with burner management controls.

- Positively driven contacts
- 2-channel design
- TÜV certified

| Type | Description | Order Number |
|---|---|---|
| SCS 24VDC P2SIL3ES | with short circuit protection | **1319280000** |

# Analog Signal Isolators, Conditioners & Monitoring Modules

Electronics: Analog Signal Conditioning

## Analog signal conditioning

Weidmuller's range of analog converter and monitoring relays makes it a powerful partner in light of the increasing use of automation. Analog signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardized electrical signals are typically used for process engineering. Analog standardized currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

The analog signal processing products can be used universally in combination with other Weidmuller products and in combination among each other.

# Secure isolation of signals from hazardous areas
# Intrinsically safe ACT20X Ex-signal converters

Your application requires signals to be routed to or from hazardous areas. Our intrinsically safe ACT20X signal isolating convertors meet the strict standards of the process industry and process signals from a wide range of Ex-zones (Zones 0, 1, 2) for control purposes.

ACT20X can be used universally. On the input side, the converter can process HART® input signals, or DC, RTD, thermocouple or NAMUR signals from the Ex-zone. On the output side, the ACT20X controls field devices with analogue or digital signals. All ACT20X products are characterised by high insulation, high accuracy and high temperature stability.

The 2-channel versions with width of 22.5 mm are available with either transistor or relay output. Because of this highly integrated design, the ACT20X helps you to reduce installation costs and use less space.

Intrinsically safe signal converters with SIL approval are available for safety functions, e.g. switching aggregates on/off, monitoring actuators or temperature/pressure. Our ACT20X complies with these stringent standards of the process industry, as well as mining industry requirements.

### Configuration via FDT

All modules can be quickly and conveniently configured with manufacturer-independent FDT/DTM software.

### Alarm function

No laborious troubleshooting.
Alarm function integrated for cable or sensor errors. In case of failures, a diagnostic signal is sent to the control system.

### Worldwide application

Fulfils the strict standards and requirements of the process industry. Can be used worldwide due to international and local approvals ATEX, IECEX, CULUS, FM, GOST and DNV.

### Robust

Wide ambient temperature range from– 20 °C ... + 60 °C.

### Intelligent connection system

Pluggable, coded, with release lever.
The release lever simplifies maintenance and allows disconnection without damaging the cables.

### SIL certification according 61508

Available for safety functions, e.g. switching aggregates on/off, monitoring actuators or temperature/pressure.

# ACT20X
# Selection table

**ACT20X — Universal, Intrinsically Safe Signal Conditioners for Hazardous Area Applications**

- Quick and easy configuration
- Saves panel space with compact 2-channel Types
- Wide temperature range from -20°C to +60°C
- Error alarm output for open/short circuits or internal errors
- Global approvals for hazardous area applications UL Class 1, Div. 2, Zone 0, Zone 2, ATEX

ACT20X

## Selection table

| Order Number | Product | Input | | | | | | | | | | Width | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amount | 0...20 mA | 4...20 mA | 0...10 V | 0...5 V | TC | RTD | Frequency | Miscellaneous | Sensor feed | | |
| | **Intrinsically safe signal converters – ACT20X** | | | | | | | | | | | | |
| | **HART® transparent supply isolator** | | | | | | | | | | | | |
| 8965430000 | ACT20X-HAI-SAO-S | 1 | X | X | | | | | | EX, HART® transparent | X | 22.5 mm | |
| 2456140000 | ACT20X-HAI-SAO-P | 1 | X | X | | | | | | EX, HART® transparent | X | 22.5 mm | |
| 8965440000 | ACT20X-2HAI-2SAO-S | 2 | X | X | | | | | | EX, HART® transparent | X | 22.5 mm | |
| 2456150000 | ACT20X-2HAI-2SAO-P | 2 | X | X | | | | | | EX, HART® transparent | X | 22.5 mm | |
| | **HART® transparent output driver** | | | | | | | | | | | | |
| 8965450000 | ACT20X-SAI-HAO-S | 1 | | X | | | | | | HART® transparent | | 22.5 mm | |
| 2456160000 | ACT20X-SAI-HAO-P | 1 | | X | | | | | | HART® transparent | | 22.5 mm | |
| 8965460000 | ACT20X-2SAI-2HAO-S | 2 | | X | | | | | | HART® transparent | | 22.5 mm | |
| 2456170000 | ACT20X-2SAI-2HAO-P | 2 | | X | | | | | | HART® transparent | | 22.5 mm | |
| | **Temperature transducer** | | | | | | | | | | | | |
| 8965470000 | ACT20X-HTI-SAO-S | 1 | X | X | | | X | X | | EX, temperature + mA | | 22.5 mm | |
| 2456180000 | ACT20X-HTI-SAO-P | 1 | X | X | | | X | X | | EX, temperature + mA | | 22.5 mm | |
| 8965480000 | ACT20X-2HTI-2SAO-S | 2 | X | X | | | X | X | | EX, temperature + mA | | 22.5 mm | |
| 2456190000 | ACT20X-2HTI-2SAO-P | 2 | X | X | | | X | X | | EX, temperature + mA | | 22.5 mm | |
| | **Pulse isolators with relay output** | | | | | | | | | | | | |
| 8965340000 | ACT20X-HDI-SDO-RNO-S | 1 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 2456050000 | ACT20X-HDI-SDO-RNO-P | 1 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 8965350000 | ACT20X-HDI-SDO-RNC-S | 1 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 2456060000 | ACT20X-HDI-SDO-RNC-P | 1 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 8965370000 | ACT20X-2HDI-2SDO-RNO-S | 2 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 2456080000 | ACT20X-2HDI-2SDO-RNO-P | 2 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 8965380000 | ACT20X-2HDI-2SDO-RNC-S | 2 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 2456090000 | ACT20X-2HDI-2SDO-RNC-P | 2 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| | **Pulse isolators with transistor output** | | | | | | | | | | | | |
| 8965360000 | ACT20X-HDI-SDO-S | 1 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 2456070000 | ACT20X-HDI-SDO-P | 1 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 8965390000 | ACT20X-2HDI-2SDO-S | 2 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| 2456100000 | ACT20X-2HDI-2SDO-P | 2 | | | | | | | | EX, Namur initiator, switching signal | X | 22.5 mm | |
| | **Digital output** | | | | | | | | | | | | |
| 8965400000 | ACT20X-SDI-HDO-L-S | 1 | | | | | | | | NPN / PNP switching signal | | 22.5 mm | |
| 2456100000 | ACT20X-SDI-HDO-L-P | 1 | | | | | | | | NPN / PNP switching signal | | 22.5 mm | |
| 8965420000 | ACT20X-2SDI-2HDO-S | 2 | | | | | | | | NPN / PNP switching signal | | 22.5 mm | |
| 2456120000 | ACT20X-2SDI-2HDO-P | 2 | | | | | | | | NPN / PNP switching signal | | 22.5 mm | |
| 8965410000 | ACT20X-SDI-HDO-H-S | 1 | | | | | | | | NPN / PNP switching signal | | 22.5 mm | |
| 2456120000 | ACT20X-SDI-HDO-H-P | 1 | | | | | | | | NPN / PNP switching signal | | 22.5 mm | |
| | **Universal measurement transducers** | | | | | | | | | | | | |
| 8965490000 | ACT20X-HUI-SAO-S | 1 | X | X | X | X | X | X | | EX, temperature + mA + V | X | 22.5 mm | |
| 2456200000 | ACT20X-HUI-SAO-P | 1 | X | X | X | X | X | X | | EX, temperature + mA + V | X | 22.5 mm | |
| 1318220000 | ACT20X-HUI-SAO-LP-S | 1 | X | X | X | X | X | X | | EX, temperature + mA + V | | 12.5 mm | |

| Output | | | | | | Configuration | Auxiliary power | Rated voltage | Isolation | Connection system | Special characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Amount | 0...20 mA | 4...20 mA | 0...10 V | Relay | Miscellaneous | | | | | | |
| 1 | | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety, HART® transparent |
| 1 | | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety, HART® transparent |
| 2 | | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety, HART® transparent |
| 2 | | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety, HART® transparent |
| 1 | | X | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety, HART® transparent |
| 1 | | X | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety, HART® transparent |
| 2 | | X | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety, HART® transparent |
| 2 | | X | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety, HART® transparent |
| 1 | X | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 1 | X | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 2 | X | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 2 | X | X | | | Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 1 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 1 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 1 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 1 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 2 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 2 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 2 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 2 | | | | X | Relay output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 1 | | | | | Transistor output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 1 | | | | | Transistor output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 2 | | | | | Transistor output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 2 | | | | | Transistor output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 1 | | | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 1 | | | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 2 | | | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | S | ATEX approval, intrinsic safety ignition protection IIC |
| 2 | | | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | P | ATEX approval, intrinsic safety ignition protection IIC |
| 1 | | | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | S | ATEX approval, intrinsic safety ignition protection IIB |
| 1 | | | | | Ex Output, Status relay | Software | 24 V DC | 300 V | 3-way | P | ATEX approval, intrinsic safety ignition protection IIB |
| 1 | X | X | | X | Limit value relay output, Status relay | Software | 24 V DC | 300 V | 3-way | S | With ATEX approval, intrinsic safety |
| 1 | X | X | | X | Limit value relay output, Status relay | Software | 24 V DC | 300 V | 3-way | P | With ATEX approval, intrinsic safety |
| 1 | | X | | | - | Software | output loop | 300 V | 2-way | S | With ATEX approval, intrinsic safety |

**Connection system: S** = screw / **Z** = tension clamp / **P** = Push In, **ILP** = Input Loop Powered, **OLP** = Output Loop Powered

**Reliable connection**
Individually customisable protection against mismatching.

**Rapid device replacement**
Practical release lever for simple removal of the female connector.

**More space in the cabinet**
Two channels measure a mere 12.5 mm wide.

**Variants for different applications**
The range of products is rounded off by the intrinsically safe ACT20X signal converter and the high-performance ACT20M signal converter, which is just 6 mm across.

# Your practical requirements are many

## Just like our ACT20P signal isolating converters

The reliable isolation and specific conversion of analogue signals plays an increasingly important role in many areas of industry and technology. When we developed the ACT20P signal converter we took full account of various technical requirements of machine engineering, the process industry and energy technology. In particular, the specifications of EN61010-1 provided important basic parameters for the technology of the equipment.

**ACT20P**

### Perfectly equipped for the machine engineering sector

Filling systems and packaging machines used in the food or pharmaceutical industry, for example, are a classic area of application for signal converters. They convert analogue signals such as temperature, pressure, fill level, flow, weight, etc. directly into standard signals for processing by the PLC. And best of all: a signal converter solution usually costs much less than an input module in the remote-i/o-system adapted to the specific requirements of the sensor.

### Ideally suited for the process industry and energy technology

In water treatment plants, conveyor technology, gas and coal-fired power plants, energy distribution stations and in many other types of plant in the process and energy technology sector signal converters have two main functions:
On the one hand, they provide reliable galvanic isolation – especially if the cables of the sensors from the field are several hundred meters in length. On the other hand, our signal converters enable individual signals such as potentiometer signals from rotary encoders or TC type J signals from temperature sensors to be adapted for the standardised inputs of DCS- or Remote-i/o-systems.

# ACT20P
# Selection table

## ACT20P-Bridge-S —
## Isolated Strain Gauge Converter

- Fast and accurate weighing for up to 4 load cells
- Converts bridge voltage to standardized analog signals
- Precise signal processing with 4- or 6-wire connection; very high accuracy (0.05%)
- Tare compensation via pushbutton or external connection via PLC output
- Protected against transients with 5.7kV isolation between input, output and power supply

### Reliable connection

Individually configurable protection against mismating with release lever

### Selection table

| Order Number | Product | Input | | | | | | | | | Width |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amount | 0...20 mA | 4...20 mA | 0...10 V | 0...5 V | TC | RTD | Frequency | Sensor feed | |
| | **Signal converters and monitoring components – ACT20P** | | | | | | | | | | |
| | **Signal converters** | | | | | | | | | | |
| 7760054114 | ACT20P-CI-CO-S | 1 | X | X | | | | | 2-/3-wire transmitter, HART® transparent | X | 12.5 mm |
| 2489680000 | ACT20P-CI-CO-P | 1 | X | X | | | | | 2-/3-wire transmitter, HART® transparent | X | 12.5 mm |
| 7760054117 | ACT20P-2CI-2CO-12-S | 2 | X | X | | | | | 4-wire sensor, HART® transparent | | 12.5 mm |
| 2489730000 | ACT20P-2CI-2CO-12-P | 2 | X | X | | | | | 4-wire sensor, HART® transparent | | 12.5 mm |
| 1540010000 | ACT20P-CI-VO-S | 1 | X | X | | | | | 2-/3-/4-wire sensor | X | 12.5 mm |
| 2489740000 | ACT20P-CI-VO-P | 1 | X | X | | | | | 2-/3-/4-wire sensor | X | 12.5 mm |
| 7760054306 | ACT20P-VM-AO-S | 1 | | | | | | | 0...440 V AC, 0...660 V DC | | 22.5 mm |
| | **Passive isolators** | | | | | | | | | | |
| 7760054123 | ACT20P-CI-CO-ILP-S | 1 | X | X | | | | | 4-wire sensor | X | 12.5 mm |
| 7760054124 | ACT20P-2CI-2CO-ILP-S | 2 | X | X | | | | | 4-wire sensor | X | 12.5 mm |
| 7760054122 | ACT20P-CI-2CO-OLP-S | 1 | | X | | | | | 4-wire sensor | X | 12.5 mm |
| 7760054118 | ACT20P-CI1-CO-OLP-S | 1 | X | | | | | | 4-wire sensor | X | 12.5 mm |
| 7760054119 | ACT20P-CI2-CO-OLP-S | 1 | | X | | | | | 4-wire sensor | X | 12.5 mm |
| 7760054121 | ACT20P-VI-CO-OLP-S | 1 | | | X | | | | 4-wire sensor | X | 12.5 mm |
| 7760054120 | ACT20P-VI1-CO-OLP-S | 1 | | | | X | | | 4-wire sensor | X | 12.5 mm |
| 7760054122 | ACT20P-CI-2CO-OLP-S | 1 | | X | | | | | 4-wire sensor | X | 12.5 mm |
| | **Signal splitters** | | | | | | | | | | |
| 7760054115 | ACT20P-CI-2CO-S | 1 | X | X | | | | | 2-/3-/4-wire sensor, HART® transparent | X | 12.5 mm |
| 2489710000 | ACT20P-CI-2CO-P | 1 | X | X | | | | | 2-/3-/4-wire sensor, HART® transparent | X | 12.5 mm |
| | **Temperature transducer** | | | | | | | | | | |
| 7760054305 | ACT20P-TMR-RTI-S | 1 | | | | | | X | PT100 | | 22.5 mm |
| 2448100000 | ACT20P-PRO-RTCI-AO-DO-S | 1 | | | | | X | X | RTD, SRTD, Pot, mV, resistance | X | 12.5 mm |
| 7940045760 | ACT20P-UI-2RCO-DC-S | 1 | X | X | X | X | X | X | ± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance | X | 22.5 mm |
| 2456840000 | ACT20P-UI-2RCO-DC-P | 1 | X | X | X | X | X | X | ± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance | X | 22.5 mm |
| 1238910000 | ACT20P-UI-2RCO-AC-S | 1 | X | X | X | X | X | X | ± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance | X | 22.5 mm |
| 2495690000 | ACT20P-UI-2RCO-AC-P | 1 | X | X | X | X | X | X | ± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance | X | 22.5 mm |
| | **Measurement and monitoring relays** | | | | | | | | | | |
| 7760054164 | ACT20P-VMR-1PH-H-S | 1 | | | | | | | 1 phase 0...400 V AC/DC | | 22.5 mm |
| 7760054165 | ACT20P-VMR-3PH-ILP-H-S | 1 | | | | | | | 3 phases 180...500 V AC | | 22.5 mm |
| | **Current measuring transducers** | | | | | | | | | | |
| 2044850000 | ACT20P-CML-10-AO-RC-S | 1 | | | | | | | 0...1/5/10 A AC/DC | | 17.5 mm |
| 2489910000 | ACT20P-CML-10-AO-RC-P | 1 | | | | | | | 0...1/5/10 A AC/DC | | 17.5 mm |
| 1510470000 | ACT20P-CMT-10-AO-RC-S | 1 | | | | | | | 0...5/10 A AC/DC | | 22.5 mm |
| 1510540000 | ACT20P-CMT-30-AO-RC-S | 1 | | | | | | | 0...20/25/30 A AC/DC | | 22.5 mm |
| 1510440000 | ACT20P-CMT-60-AO-RC-S | 1 | | | | | | | 0...40/50/60 A AC/DC | | 22.5 mm |
| 1510390000 | ACT20P-CMT-60-RC-S | 1 | | | | | | | 0...40/50/60 A AC/DC | | 22.5 mm |
| 1510330000 | ACT20P-CMT-10-AO-RC-P | 1 | | | | | | | 0...5/10 A AC/DC | | 22.5 mm |
| 1510320000 | ACT20P-CMT-30-AO-RC-P | 1 | | | | | | | 0...20/25/30 A AC/DC | | 22.5 mm |
| 1510290000 | ACT20P-CMT-60-AO-RC-P | 1 | | | | | | | 0...40/50/60 A AC/DC | | 22.5 mm |
| 1510280000 | ACT20P-CMT-60-RC-P | | | | | | | | 0...40/50/60 A AC/DC | | 22.5 mm |
| | **Bridge measuring transducers** | | | | | | | | | | |
| 1067250000 | ACT20P-BRIDGE-S | 1 | | | | | | | 4-,6-wire strain gauge | X | 22.5 mm |
| 2456820000 | ACT20P-BRIDGE-P | 1 | | | | | | | 4-,6-wire strain gauge | X | 22.5 mm |
| | **Universal measurement transducers** | | | | | | | | | | |
| 1481970000 | ACT20P-PRO DCDC II-S | 1 | X | X | X | X | | | ± 100 mA, ± 300 V DC | X | 12.5 mm |
| 1481960000 | ACT20P-PRO DCDC II-P | 1 | X | X | X | X | | | ± 100 mA, ± 300 V DC | X | 12.5 mm |
| 1453210000 | ACT20P-UI-AO-DO-LP-S | 1 | X | X | X | X | X | X | ± 25 mA, ± 5 A DC, ± 28 V DC, ± 300 V DC, 300 V AC | X | 12.5 mm |
| 2456850000 | ACT20P-UI-AO-DO-LP-P | 1 | X | X | X | X | X | X | ± 25 mA, ± 5 A DC, ± 28 V DC, ± 300 V DC, 300 V AC | X | 12.5 mm |
| 1477420000 | ACT20P-AI-AO-DC-S | 1 | X | X | X | X | | | 0...11 V, 0...22 mA | X | 12.5 mm |
| 2456860000 | ACT20P-AI-AO-DC-P | 1 | X | X | X | X | | | 0...11 V, 0...22 mA | X | 12.5 mm |

## Simple signal conditioning

Devices configured for converting standard sensor signals to standard DC signals.

## High level of galvanic isolation

The galvanic isolation of 2 kV (300 V rated voltage ) ensures high process reliability

| | Output | | | | | | Configuration | Auxiliary power | Rated voltage | Isolation | Connection system | Special characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Amount | 0...20 mA | 4...20 mA | 0...10 V | Relay | Miscellaneous | | | | | | |
| | 1 | X | X | | | | - | 24 V DC | 300 V | 3-way | S | HART® transparent |
| | 1 | X | X | | | | - | 24 V DC | 300 V | 3-way | P | HART® transparent |
| | 2 | X | X | | | | - | 24 V DC | 300 V | 3-way | S | HART® transparent |
| | 2 | X | X | | | | - | 24 V DC | 300 V | 3-way | P | HART® transparent |
| | 1 | | | X | | | - | 24 V DC | 300 V | 3-way | S | |
| | 1 | | | X | | | - | 24 V DC | 300 V | 3-way | P | |
| | 1 | X | X | X | | | Software | 24...240 V UC | 600 V | 3-way | S | |
| | 1 | X | X | | | | - | input loop | 300 V | 2-way | S | |
| | 2 | X | X | | | | - | input loop | 300 V | 4-way | S | |
| | 2 | | X | | | | - | output loop | 300 V | 3-way | S | |
| | 1 | | X | | | | - | output loop | 300 V | 2-way | S | |
| | 1 | | X | | | | - | output loop | 300 V | 2-way | S | |
| | 1 | | X | | | | - | output loop | 300 V | 2-way | S | |
| | 1 | | X | | | | - | output loop | 300 V | 2-way | S | |
| | 2 | | X | | | | - | output loop | 300 V | 4-way | S | |
| | 2 | X | X | | | | - | 24 V DC | 300 V | 4-way | S | HART® transparent |
| | 2 | X | X | | | | - | 24 V DC | 300 V | 4-way | P | HART® transparent |
| | 2 | | | | X | 2 x relay outputs (limit value) | Software, Display | 20...264 V UC | 300 V | 5-way | S | |
| | 1 | X | X | X | | analogue and NPN output, Limit value | Display, Button | 24...240 V UC | 300 V | 3-way | S | |
| | 1 | | | | X | 2 x Limit value relay output | Software, Display | 9...60 V DC | 300 V | 5-way | S | |
| | 1 | | | | X | 2 x Limit value relay output | Software, Display | 9...60 V DC | 300 V | 5-way | P | |
| | 1 | | | | X | 2 x Limit value relay output | Software, Display | 90...264 V AC | 300 V | 5-way | S | |
| | 1 | | | | X | 2 x Limit value relay output | Software, Display | 90...264 V AC | 300 V | 5-way | P | |
| | 2 | | | | X | 2 x Limit value relay output | DIP switch, potentiometer | 20...240 V UC | 300 V | 5-way | S | |
| | 2 | | | | X | 2 x Limit value relay output | DIP switch, potentiometer | Input loop | 600 V | 5-way | S | |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | S | Power cable can be connected to the terminals |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | P | Power cable can be connected to the terminals |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | S | Through hole current converter |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | S | Through hole current converter |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | S | Through hole current converter |
| | 1 | | | | X | Limit value relay output | DIP switch, potentiometer | 24 V DC | 300 V | 3-way | S | Through hole current converter |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | P | Through hole current converter |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | P | Through hole current converter |
| | 1 | X | X | X | X | ± 10 V, ± 20 mA, Limit value relays | DIP switch, potentiometer | 24 V DC | 300 V | 4-way | P | Through hole current converter |
| | 1 | | | | X | Limit value relay output | DIP switch, potentiometer | 24 V DC | 300 V | 3-way | P | Through hole current converter |
| | 1 | X | X | X | | Reset button (TARE) | DIP switch, button | 10...60 V DC | 300 V | 3-way | S | |
| | 1 | X | X | X | | Reset button (TARE) | DIP switch, button | 10...60 V DC | 300 V | 3-way | P | |
| | 1 | X | X | X | | ± 10 V, ± 20 mA | Display, DIP switch, button | 24 V - 230 V AC/DC | 600 V | 3-way | S | aktiv or passiv output |
| | 1 | X | X | X | | ± 10 V, ± 20 mA | Display, DIP switch, button | 24 V - 230 V AC/DC | 600 V | 3-way | P | aktiv or passiv output |
| | 1 | | X | | | NPN output, Limit value | Software | output loop | 300 V | 3-way | S | Output Loop powered |
| | 1 | | X | | | NPN output, Limit value | Software | output loop | 300 V | 3-way | P | Output Loop powered |
| | 1 | X | X | X | | 0...11V, 0...22mA | DIP switch, button, LED | 12...60 V DC | 300 V | 3-way | S | |
| | 1 | X | X | X | | 0...11V, 0...22mA | DIP switch, button, LED | 12...60 V DC | 300 V | 3-way | P | |

**Connection system: S** = screw / **Z** = tension clamp / **P** = Push In, **ILP** = Input Loop Powered, **OLP** = Output Loop Powered

# Reliable conversion and isolation of signals in confined spaces

## With ACT20M signal converters with 6 mm wide design

### The new dimension for converting and isolating – housed in a 6 mm width

The ACT20M series of products combines innovative technology with maximum functionality in an electronics housing measuring just 6 mm in width. The ACT20-FEED-IN-PRO-S power-feed unit eliminates the need to wire the power supply to the modules. This reduces the installation time by at least 30%. The ACT20-FEED-IN-PRO-S can supply and monitor up to 120 devices, which are mounted on the CH20 terminal rail bus.

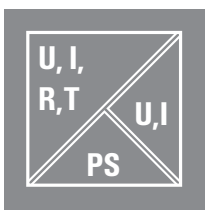
The product line consists of Input Loop Powered, Output Loop Powered and Auxiliary Powered analog isolators and converters, including a universal input converter. The eight-connection housing allows additional functionality such as 2 channel ILP, 2 channel OLP isolation and signal splitting with input powering option. The configuration is carried out via DIP switches or the FDT/ DTM software. The ACT20M modules are supplied via direct wiring or a rail bus.

### The DIP switch can be configured simply on the module

In the “ACT20M Tool” software, simply select the type of input and output, and set the DIP switch configuration as displayed.

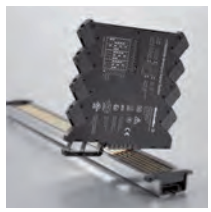
### Easy configuration

DIP switches on the side are used to configure the input and output parameters, as well as the response time.




### High level of galvanic isolation

2.5 kV of electrical isolation (300 V rated voltage) ensures excellent process reliability.



### Installation is simple and quick

The power supply is simply snapped onto the rail bus for fast and easy installation. The supply can be through any ACT20M module or a separate power-feed unit.

### Approvals

Fulfils the strict standards and requirements of the process industry. Can be used worldwide due to international and local approvals ATEX, IECEX, CULUS, FM, GL and DNV.

# ACT20M: the slimmest

## Extremely space-saving with a width of only 6 mm

# Selection table

- Extensive approvals, e.g. ATEX, IECEX, GL, DNV
- Robust against interference
- High packing density per channel
- Certifications: ATEX, UL, DNV, FM
- Easy and quick installation of the power supply via CH20M DIN railbus
- Easy configuration via DIP switches or FDT/DTM software

### Selection table

| Order Number | Product | Input | | | | | | | | | | Width | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Amount | 0...20 mA | 4...20 mA | 0...10 V | 0...5 V | TC | RTD | Frequency | Miscellaneous | Sensor feed | | |
| | **Space-saving signal converters – ACT20M** | | | | | | | | | | | | |
| | **Signal converters** | | | | | | | | | | | | |
| **1175980000** | ACT20M-CI-CO-S | 1 | X | X | | | | | | 4-wire sensor | | 6.1 mm | |
| **1176000000** | ACT20M-AI-AO-S | 1 | X | X | X | X | | | | 2-,4-wire sensor | X | 6.1 mm | |
| **1176010000** | ACT20M-AI-AO-E-S | 1 | X | X | X | X | | | | 4-wire sensor | | 6.1 mm | |
| **1375450000** | ACT20M-BAI-AO-S | 1 | | | | | | | | -10(20)...+10(20) mA, -5(10)...+5(10) V | | 6.1 mm | |
| | **Passive isolators** | | | | | | | | | | | | |
| **1176070000** | ACT20M-CI-CO-ILP-S | 1 | X | X | | | | | | 4-wire sensor | | 6.1 mm | |
| **1176080000** | ACT20M-2CI-2CO-ILP-S | 2 | X | X | | | | | | 4-wire sensor | | 6.1 mm | |
| **1176040000** | ACT20M-CI-CO-OLP-S | 1 | | X | | | | | | 2-wire transmitter | X | 6.1 mm | |
| **1176050000** | ACT20M-2CI-2CO-OLP-S | 2 | | X | | | | | | 2-wire transmitter | X | 6.1 mm | |
| | **Signal splitters** | | | | | | | | | | | | |
| **1175990000** | ACT20M-CI-2CO-S | 1 | X | X | | | | | | 4-wire sensor | | 6.1 mm | |
| **1176020000** | ACT20M-AI-2SAO-S | 1 | X | X | X | X | | | | 2-,4-wire sensor | X | 6.1 mm | |
| **1375470000** | ACT20M-BAI-2AO-S | 1 | | | | | | | | -10(20)...+10(20) mA, -5(10)...+5(10) V | | 6.1 mm | |
| | **Temperature transducer** | | | | | | | | | | | | |
| **1435590000** | ACT20M-RTCI-CO-OLP-S | 1 | | | | | X | X | | PT100 Type: J,K | | 6.1 mm | |
| **1435610000** | ACT20M-RTI-CO-EOLP-S | 1 | | | | | | X | | PT100 | | 6.1 mm | |
| **1375510000** | ACT20M-RTI-AO-S | 1 | | | | | | X | | PT100 | | 6.1 mm | |
| **1375520000** | ACT20M-RTI-AO-E-S | 1 | | | | | | X | | PT100 | | 6.1 mm | |
| **1375480000** | ACT20M-TCI-AO-S | 1 | | | | | X | | | Type J,K | | 6.1 mm | |
| **1375500000** | ACT20M-TCI-AO-E-S | 1 | | | | | X | | | Type J,K | | 6.1 mm | |
| | **Universal measurement transducers** | | | | | | | | | | | | |
| **1176030000** | ACT20M-UI-AO-S | 1 | X | X | X | X | X | X | | PT50/100/250/300/400/1000, Ni50/100/1000 Type: B / C / E / J / K / L / N / R / S / T | X | 6.1 mm | |

| | Output | | | | | | Configuration | Auxiliary power | Rated voltage | Isolation | Connection system | Special characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Amount | 0...20 mA | 4...20 mA | 0...10 V | Relay | Miscellaneous | | | | | | |
| | 1 | X | X | | | | | 24 V DC | 300 V | 3-way | S | ATEX approval Zone 2 |
| | 1 | X | X | X | | | DIP switch | 24 V DC | 300 V | 3-way | S | ATEX approval Zone 2 |
| | 1 | X | X | X | | | DIP switch | 24 V DC | 300 V | 3-way | S | ATEX approval Zone 2 |
| | 1 | X | X | X | | | DIP switch | 24 V DC | 300 V | 2-way | S | ATEX approval Zone 2 |
| | 1 | X | X | | | | | input loop | 300 V | 2-way | S | ATEX approval Zone 2, Passive converter |
| | 2 | X | X | | | | | input loop | 300 V | 2-way | S | ATEX approval Zone 2, Passive converter |
| | 1 | | X | | | | | output loop | 300 V | 2-way | S | ATEX approval Zone 2, Passive converter |
| | 2 | | X | | | | | output loop | 300 V | 2-way | S | ATEX approval Zone 2, Passive converter |
| | 2 | X | X | | | | DIP switch | 24 V DC | 300 V | 3-way | S | ATEX approval Zone 2 |
| | 2 | X | X | X | | | DIP switch | 24 V DC | 300 V | 3-way | S | ATEX approval Zone 2 |
| | 2 | X | X | X | | -10(20)...+10(20) mA | DIP switch | 24 V DC | 300 V | 2-way | S | ATEX approval Zone 2 |
| | 1 | | X | | | 20...4 mA | DIP switch | output loop | 300 V | 2-way | S | ATEX approval Zone 2, Passive converter |
| | 1 | | X | | | 20...4 mA | DIP switch | output loop | | - | S | ATEX approval Zone 2, Passive converter |
| | 1 | X | X | X | | 0(1)...5 V | DIP switch | 24 V DC | 300 V | 2-way | S | ATEX approval Zone 2 |
| | 1 | X | X | | | 0(1)...5 V | DIP switch | 24 V DC | | - | S | ATEX approval Zone 2 |
| | 1 | X | X | X | | interne CJC, externe CJC | DIP switch | 24 V DC | 300 V | 2-way | S | ATEX approval Zone 2 |
| | 1 | X | X | X | | interne CJC, externe CJC | DIP switch | 24 V DC | | - | S | ATEX approval Zone 2 |
| | 1 | X | X | X | | | Software | 24 V DC | 300 V | 3-way | S | ATEX approval Zone 2 |

**Connection system: S** = screw / **Z** = tension clamp / **P** = Push In, **ILP** = Input Loop Powered, **OLP** = Output Loop Powered

# Measuring and isolating without auxiliary power supply

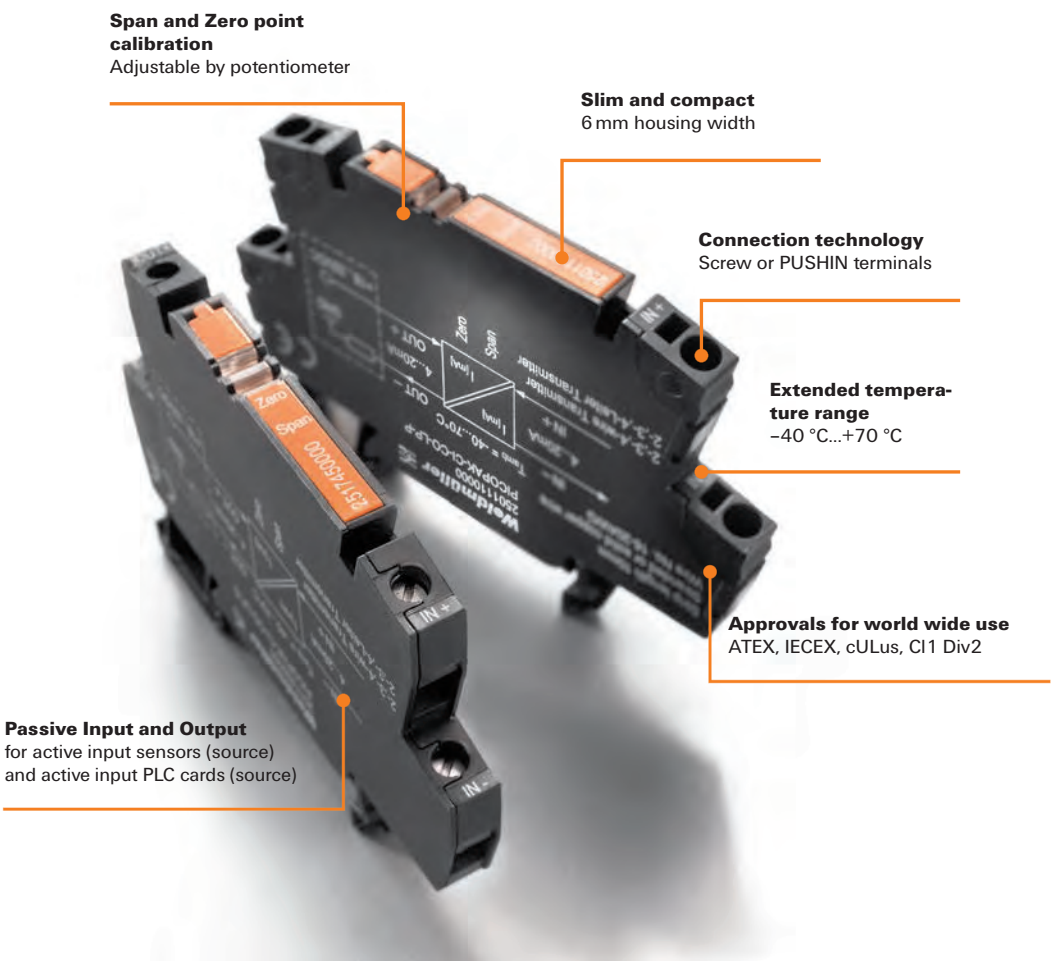
## PicoPak - the smallest standard signal isolator

Use in different applications and industries

Many processes are only possible with the safe conversion and reliable separation of analogue current signals. With impressive performance, our analogue signal converter PicoPak supports the simultaneous measurement and galvanic isolation of signals from active field sensors and PLC input cards. Because of their integrated input and output current loop, the module does not require any additional auxiliary power supply and can also be easily used in remote switch boxes. Being integrated into a housing that is only 6 mm wide means that the signal converters take up very little space on a terminal rail. Both the tried-and-tested screw connectors and the convenient PUSH IN connection technology designs ensure reliable connections.

### Your special advantages:

- High flexibility for a variety of applications due to worldwide approvals and an extended temperature range from -40 to +70°C
- Loop powered to isolate active field sensors without additional auxiliary power supply from active PLC input cards
- Reliable measurement range and zero point calibration using a potentiometer



# PicoPak screw connection / PUSH IN

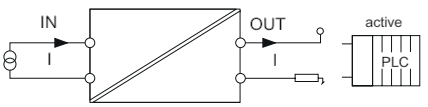
## PicoPak: the legacy

- Loop powered at output
- Increased operating temperature range -40 °C ...+70 °C
- Zero and span adjustment possible

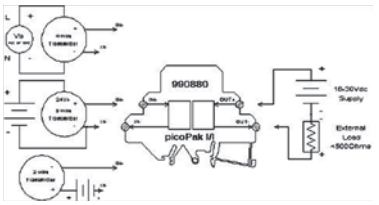
This product has process industry-proven reliability in North America. For years picoPak™ I - I has allowed signal isolation with space savings, zero\ span calibration for critical control loops and Class 1 Div 2 approval.

Now features better housing (2mm thinner) and covered on both sides with proven reliability and confidence in this great product.

### PICOPAK-CI-CO-LP




### picoPak I-I 4-20mA Isolator




## Technical data

| Input | | |
|---|---|---|
| Number of inputs | 1 | 1 |
| Input current | 4...20 mA | 4...20 mA |
| Sensor | Current source | Current source |
| Voltage drop, current input | ≤3.5 V | ≤3.5V |
| **Analog outputs** | | |
| Load impedance current | ≤ 600 Ω | 0-500Ω or Rmax=[(Vs-14)/0.02]Ω |
| Output current | 4...20 mA, loop-powered | 4...20 mA, loop powered |
| Supply voltage (output) | 18...32 V | 18...30V |
| **General data** | | |
| Accuracy | < 0.1 % of measuring range | < 0.1% of measuring range @ 25°C, 0.8% in over temperature |
| Configuration | Potentiometer | Potentiometer (15% around 4mA and 15% around 20mA for calibration) |
| Voltage supply | Output loop powered | Output loop powered |
| Step response time | ≤ 5 ms | ≤ 5 ms |
| Temperature coefficient | ≤ 200 ppm/K | ≤ 200 ppm/K |
| Power consumption, max. | 0.8 W | 0.75 W |
| Voltage supply | Output loop powered | Output loop powered |
| Approvals | cULus, Class 1 Division 2, IECEx, ATEX 2014/34/EU, CE | CSA, Class 1 Divison 2, CE |
| **Insulation coordination** | | |
| EMC standards | EN 61326-1 | |
| Galvanic isolation | 2-way isolator | 2-way isolator |
| Overvoltage category | II | II |
| Insulation voltage | 3.5 kV | 2.0 kV |
| Rated voltage | 300 V $AC_{rms}$ | |

| Dimensions | | Screw connection | PUSH IN | Screw connection |
|---|---|---|---|---|
| Clamping range (nominal / min. / max.) | $mm^2$ | | | |
| Depth x width x height | mm | 55 / 6.1 / 79.4 | 55 / 6.1 / 79.4 | 78.5/9.5 (with end plate included) /88.4 |

## Ordering data

| | Type | Qty. | Order Number | Type | Qty. | Order Number |
|---|---|---|---|---|---|---|
| Screw connection | PICOPAK-CI-CO-LP-S | 1 | **2517450000** | PICOPAK I-I | 1 | **9908800000** |
| PUSH IN connection | PICOPAK-CI-CO-LP-P | 1 | **2501110000** | | | |

## Accessories

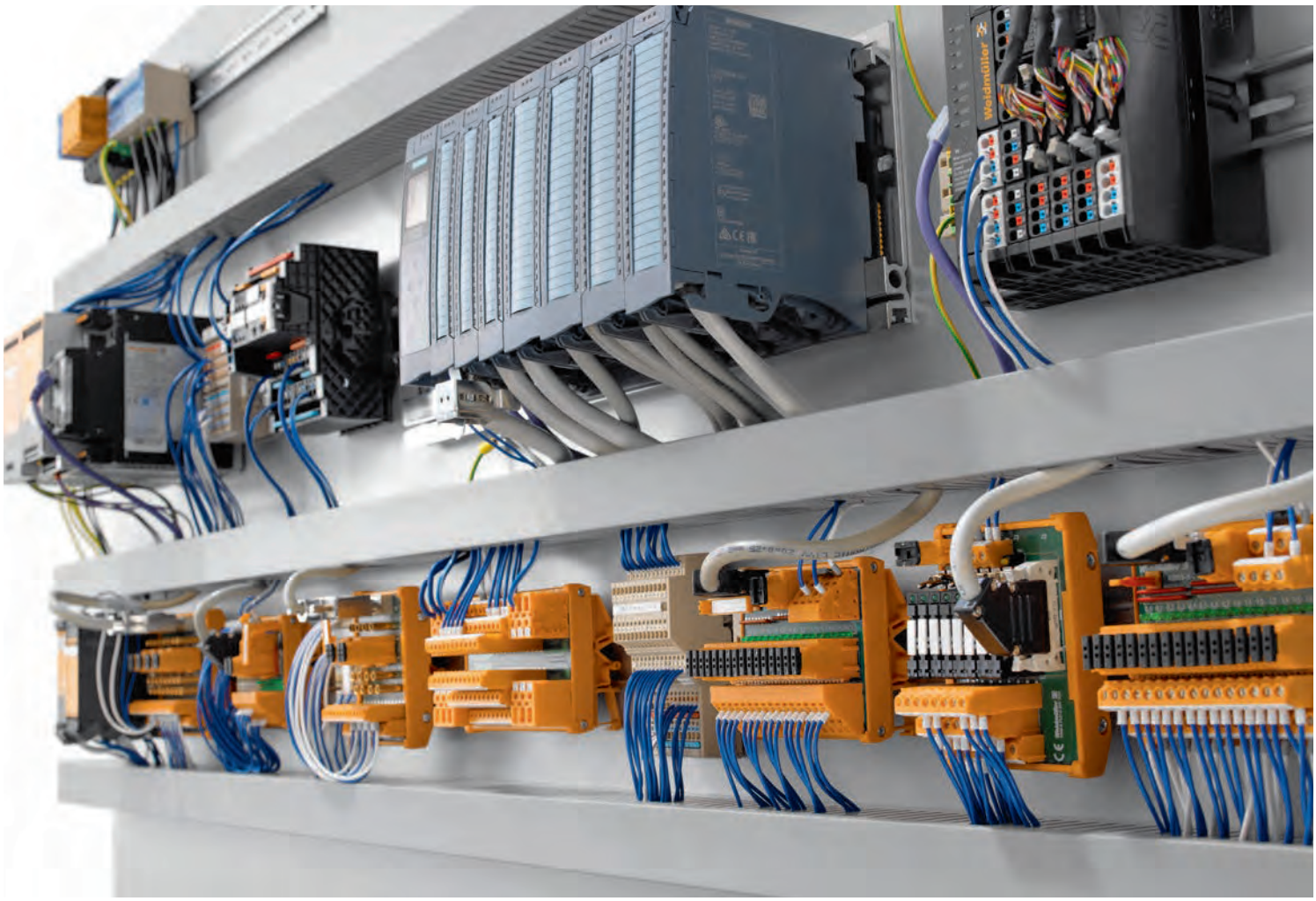
| | Type | Qty. | Order Number | Type | Qty. | Order Number |
|---|---|---|---|---|---|---|
| End Plate | | | | | | |
| Notes | PICOPAK-CI-CO-LP(-S or -P) does not require an end plate | | | PICOPAK I-I (9908800000) does not require an end plate | | |

# Network & Automation

**u-mation.**
**More than Automation.**
**Digital Solutions.**

# PLC Interfaces & Migration Solutions

Network & Automation



## PLC interfaces and pre-assembled cables

### Effective alternative to end-to-end cabling

Aimed at reducing costs and to save space and time in the construction of electrical cabinets, we offer our universal cabling system for PLCs as an effective alternative to end-to-end cabling design. In addition to our range of pre-assembled cables, front-adaptors and interfaces, we offer interface units and customer-specific wiring concepts which can be optimally integrated into your systems.

## Migration solutions

Weidmuller has teamed with designers to provide a simple and easy solution to migrate your control system. This migration system features universal card adapters and engineered cables. Weidmuller can provide you with the components and information needed to design your migration bill of materials. To start designing your migration system, visit: www.weidmuller.com/migration

# PLC Interface Solutions

## Pre-Assembled PLC Specific Cables and Modules

- Plug and Play Solution with double ended cables feature PLC specific connectors, eliminating the need for hardwiring
- Space saving design with jacketed cables for easy and flexible installation on standard DIN-rails
- Flexibility due to complete solutions from all major PLC suppliers and I/O cards for digital and analog signals
- Safe and Secure connections with sealed flat connector and strain relief providing solid connections for use in rugged applications; shielded Sub-D connector to protect analog signals

**Encapsulated Flat Connector with Strain Relief for Relay Outputs**

Complete Solutions with PLC Interface Modules and Cables featuring the PLC specific connector on the control side are available for the following major PLC lines:

| Manufacturer | Series |
|---|---|
| Siemens | S7-300 |
| Siemens | S7-400 |
| Telemecanique (Modicon/Square D/Schneider Electric) | Micro |
| Telemecanique (Modicon/Square D/Schneider Electric) | Premium |
| Telemecanique (Square D/Schneider Electric) | Twido |
| Telemecanique (Modicon/Square D/Schneider Electric) | Quantum |
| Telemecanique (Modicon/Square D/Schneider Electric) | M340 |
| Rockwell | SLC500 |
| Rockwell | Compact Logix |
| Rockwell | Control Logix |
| GE Intelligent Platforms | 90-30 |
| GE Intelligent Platforms | RX3i |
| Alspa | 8035 |
| Omron | CQM1 |
| Omron | C200H |
| Omron | CJ1W |
| ABB | S800 |

**Shielded Sub-D Connector for Analog Inputs/Outputs**

**Industrial RSV 1.6 Connector for Direct Inputs with Voltage >50V**

# Cable Interface Products

## Standard Cable Interface Products

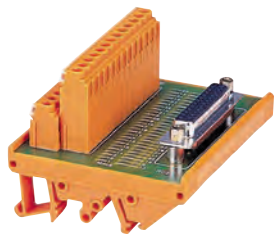
Weidmuller's multifaceted cable interface products are ideal for interfacing field wiring to high density cables. Designed for quick, simple and accurate plug-in installation, they:

- Accept most industry standard connector types
- Mount on industry standard DIN-rails, providing an excellent complement to rail-mounted products such as programmable controllers
- Reduce the amount of DIN-rail space normally required for field wiring termination
- Use double- and triple-level high-density terminals, saving space
- Require fewer wires to mark and dress
- Offer minimum installation error by connecting the field wiring to premarked printed circuit board terminal blocks that match the cable wiring

### D-Sub Miniature

- Mechanically polarized connector with a metal body and two rows of pins or sockets
- Assembled in standard UL recognized 70 mm (2.76 in), high density 45 mm (1.77 in), and 87 mm (3.43 in) DIN-rail housings.
- Standard pin count: 9, 15, 25, 37 and 50
- Interface units IEC 807-2 DIN 41652

| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **70 mm profile** | | | | |
| 9 | RD-9JS Male | Male connector, 2 Tier screw terminal connection | 39.88 mm | **7940102379*** |
| 9 | RD-9JS Female | Female connector, 2 Tier screw terminal connection | 39.88 mm | **7940102380*** |
| 15 | RD-15JS Male | Male connector, 2 Tier screw terminal connection | 55.12 mm | **7940118439*** |
| 15 | RD-15JS Female | Female connector, 2 Tier screw terminal connection | 55.12 mm | **7940110260*** |
| 25 | RD-25JS Male | Male connector, 2 Tier screw terminal connection | 85.09 mm | **7940102383*** |
| 25 | RD-25JS Female | Female connector, 2 Tier screw terminal connection | 85.09 mm | **7940102384*** |
| 37 | RD-37JS Male | Male connector, 2 Tier screw terminal connection | 116.84 mm | **7940102387*** |
| 37 | RD-37JS Female | Female connector, 2 Tier screw terminal connection | 116.84 mm | **7940102388*** |
| 50 | RD-50JS Male | Male connector, 2 Tier screw terminal connection | 149.35 mm | **7940110272*** |
| 50 | RD-50JS Female | Female connector, 2 Tier screw terminal connection | 149.35 mm | **7940102410*** |



D-Sub

| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **45 mm profile** | | | | |
| 9 | RS SD9S UNC LPK2 | Male connector, 2 Tier screw terminal connection | 50.0 mm | **8259010000** |
| 9 | RS SD9B UNC LPK2 | Female connector, 2 Tier screw terminal connection | 50.0 mm | **8216480000** |
| 15 | RS SD15S UNC LPK2 | Male connector, 2 Tier screw terminal connection | 61.0 mm | **8233350000** |
| 15 | RS SD15B UNC LPK2 | Female connector, 2 Tier screw terminal connection | 61.0 mm | **8209730000** |
| 25 | RS SD25S UNC LPK2 | Male connector, 2 Tier screw terminal connection | 86.0 mm | **8155650000** |
| 25 | RS SD25B UNC LPK2 | Female connector, 2 Tier screw terminal connection | 86.0 mm | **8155620000** |
| 37 | RS SD37S UNC LPK2 | Male connector, 2 Tier screw terminal connection | 116.0 mm | **8155660000** |
| 37 | RS SD37B UNC LPK2 | Female connector, 2 Tier screw terminal connection | 116.0 mm | **8155630000** |
| 50 | RS SD50S UNC LPK2 | Male connector, 2 Tier screw terminal connection | 154.0 mm | **8155670000** |
| 50 | RS SD50B UNC LPK2 | Female connector, 2 Tier screw terminal connection | 154.0 mm | **8155640000** |

D-Sub

* indicates new order number

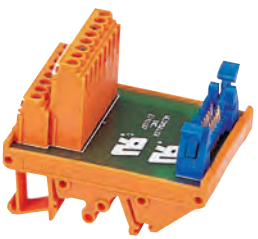
| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **87 mm profile** | | | | |
| 9 | RS SD9S UNC 4.40 LP2N | Male connector, 2 Tier screw terminal connection | 45.0 mm | **8003901001** |
| 9 | RS SD9B UNC 4.40 LP2N | Female connector, 2 Tier screw terminal connection | 45.0 mm | **8003911001** |
| 15 | RS SD15S UNC 4.40 LP2N | Male connector, 2 Tier screw terminal connection | 60.0 mm | **8005201001** |
| 15 | RS SD15B UNC 4.40 LP2N | Female connector, 2 Tier screw terminal connection | 60.0 mm | **8005211001** |
| 25 | RS SD25S UNC 4.40 LP2N | Male connector, 2 Tier screw terminal connection | 80.0 mm | **8005181001** |
| 25 | RS SD25B UNC 4.40 LP2N | Female connector, 2 Tier screw terminal connection | 80.0 mm | **8005191001** |
| 37 | RS SD37S UNC 4.40 LP2N | Male connector, 2 Tier screw terminal connection | 110.0 mm | **8003881001** |
| 37 | RS SD37B UNC 4.40 LP2N | Female connector, 2 Tier screw terminal connection | 110.0 mm | **8003891001** |
| 50 | RS SD50S UNC 4.40 LP2N | Male connector, 2 Tier screw terminal connection | 154.0 mm | **8005161001** |
| 50 | RS SD50B UNC 4.40 LP2N | Female connector, 2 Tier screw terminal connection | 154.0 mm | **8005171001** |

**D-Sub**

## IDC Ribbon

- Designed with polarizing key for guiding and keying the socket connector
- Typical voltage and current: 125 VDC at 1 A
- Assembled in standard UL recognized 70 mm (2.76 in), high density 45 mm (1.77 in), and 87 mm (3.43 in) DIN-rail housings.
- Pin center dimension: 0.100 in
- Standard pin count: 10, 14, 16, 20, 26, 30, 34, 36, 40, 50, 60 and 64

| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **70 mm profile** | | | | |
| 20 | RI-IDC 20 | Male connector, 2 Tier screw terminal connection | 64.77 mm | **7940102372*** |
| 26 | RI-IDC 26 | Male connector, 2 Tier screw terminal connection | 84.84 mm | **7940102373*** |
| 34 | RI-IDC 34 | Male connector, 2 Tier screw terminal connection | 104.65 mm | **7940110259*** |
| 40 | RI-IDC 40 | Male connector, 2 Tier screw terminal connection | 120.14 mm | **7940102374*** |
| 50 | RI-IDC 50 | Male connector, 2 Tier screw terminal connection | 142.49 mm | **7940102375*** |
| 60 | RI-IDC 60 | Male connector, 2 Tier screw terminal connection | 175.01 mm | **7940102376*** |
| 64 | RI-IDC 64 | Male connector, 2 Tier screw terminal connection | 181.61 mm | **7940102377*** |



**IDC Ribbon**

* indicates new order number

| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **45 mm profile** | | | | |
| 10 | RS F10 LPK 2H/12 | Male connector, 2 Tier screw terminal connection | 49.0 mm | **8155610000** |
| 14 | RS F14 LPK 2H/16 | Male connector, 2 Tier screw terminal connection | 56.0 mm | **8258980000** |
| 16 | RS F16 LPK 2H/18 | Male connector, 2 Tier screw terminal connection | 64.0 mm | **8265540000** |
| 20 | RS F20 LPK 2H/22 | Male connector, 2 Tier screw terminal connection | 71.0 mm | **8155600000** |
| 26 | RS F26 LPK 2H/28 | Male connector, 2 Tier screw terminal connection | 86.0 mm | **8213470000** |
| 34 | RS F34 LPK 2H/36 | Male connector, 2 Tier screw terminal connection | 106.0 mm | **8155590000** |
| 40 | RS F40 LPK 2H/42 | Male connector, 2 Tier screw terminal connection | 121.0 mm | **8155580000** |
| 50 | RS F50 LPK 2H/52 | Male connector, 2 Tier screw terminal connection | 150.3 mm | **8155570000** |
| 60 | RS F60 LPK 2H/62 | Male connector, 2 Tier screw terminal connection | 180.0 mm | **8259000000** |
| 64 | RS F64 LPK 2H/66 | Male connector, 2 Tier screw terminal connection | 186.0 mm | **8155550000** |

**IDC Ribbon**

| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **87 mm profile - 2 tier** | | | | |
| 10 | RS F10 LP2N 5/10 | Male connector, 2 Tier screw terminal connection | 50.0 mm | **0224961001*** |
| 14 | RS F14 LP2N 5/14 | Male connector, 2 Tier screw terminal connection | 50.0 mm | **0225061001*** |
| 16 | RS F16 LP2N 5/16 | Male connector, 2 Tier screw terminal connection | 55.0 mm | **0225161001*** |
| 20 | RS F20 LP2N 5/20 | Male connector, 2 Tier screw terminal connection | 65.0 mm | **0224261001*** |
| 26 | RS F26 LP2N 5/26 | Male connector, 2 Tier screw terminal connection | 80.0 mm | **0224861001*** |
| 34 | RS F34 LP2N 5/34 | Male connector, 2 Tier screw terminal connection | 110.0 mm | **0224361001*** |
| 40 | RS F40 LP2N 5/40 | Male connector, 2 Tier screw terminal connection | 115.0 mm | **0224461001*** |
| 50 | RS F50 LP2N 5/50 | Male connector, 2 Tier screw terminal connection | 145.0 mm | **0224561001*** |
| 60 | RS F60 LP2N 5/60 | Male connector, 2 Tier screw terminal connection | 180.0 mm | **0224661001*** |
| 64 | RS F64 LP2N 5/64 | Male connector, 2 Tier screw terminal connection | 180.0 mm | **0224761001*** |

**2 Tier IDC Ribbon**

* indicates new order number

| Poles | Type | Description | Width | Order Number |
|---|---|---|---|---|
| **87 mm profile - 3 tier** | | | | |
| 10 | RS F10 LP3R 3/12 | Male connector, 3 Tier screw terminal connection | 40.0 mm | **8012850000** |
| 14 | RS F14 LP3R 3/14 | Male connector, 3 Tier screw terminal connection | 45.0 mm | **8012860000** |
| 16 | RS F16 LP3R 3/18 | Male connector, 3 Tier screw terminal connection | 50.0 mm | **8012870000** |
| 20 | RS F20 LP3R 3/21 | Male connector, 3 Tier screw terminal connection | 50.0 mm | **8012910000** |
| 26 | RS F26 LP3R 3/27 | Male connector, 3 Tier screw terminal connection | 55.0 mm | **8012920000** |
| 34 | RS F34 LP3R 3/36 | Male connector, 3 Tier screw terminal connection | 70.0 mm | **8012930000** |
| 40 | RS F40 LP3R 3/42 | Male connector, 3 Tier screw terminal connection | 80.0 mm | **8012940000** |
| 50 | RS F50 LP3R 3/51 | Male connector, 3 Tier screw terminal connection | 95.0 mm | **8012950000** |
| 60 | RS F60 LP3R 3/63 | Male connector, 3 Tier screw terminal connection | 115.0 mm | **8012960000** |
| 64 | RS F64 LP3R 3/66 | Male connector, 3 Tier screw terminal connection | 120.0 mm | **8012970000** |

**3 Tier IDC Ribbon**

### RJ45 Interface

- DIN-rail mountable RJ45 Interface
- Terminate 4, 8 conductors
- Rated at 60 V, 100 mA per contact, 12...26 AWG

| Contacts | Description | Order Number |
|---|---|---|
| 4 | RJ-4A | **7940102252*** |
| 8 | RJ-8A | **7940102243*** |

**RJ45**

*** indicates new order number**

### RS RJ45 Interface

- Accepts 8 shielded signals
- Overvoltage Category 2
- RJ45/Cat 5

| Contacts | Description | Order Number |
|---|---|---|
| 8 | RS-RJ45 | **8611320000** |

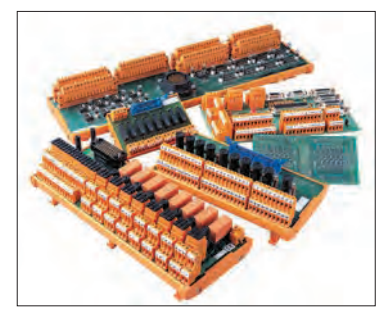
**RS RJ45**

# Services and Support

Weidmuller offers custom design, engineering and assembly services—solutions that ensure you have the right product at the right time for your application. Partnering with our expert knowledge and experience allows your engineers to concentrate their time, energy and resources on maintaining your application goals.

Partner with Weidmuller for custom products when:

- Reduction of panel space requires condensed functionality
- Standard products do not meet your unique application need
- You need an expert designer to offer innovative solutions
- You need a truly inventive product to place you ahead of the competition
- Market pressures dictate a rapid turnaround on a custom product design



### Weidmuller Offers Unmatched Expertise and Products

- Over 60 years of unparalleled innovative product design, manufacturing knowledge and experience
- Universal understanding of applications and approvals enabling us to develop solutions for customers worldwide
- Experienced design team to pinpoint your exact specifications
- Expert and accessible technical support team
- The ability to flexibly accommodate specialty components from other manufacturers, if required by your application
- Quality assurance of our products, as an ISO 9001 inspection point

Our design and engineering services include:

- Controller front panel adapters
- DIN-rail terminal blocks
- Controller interface products

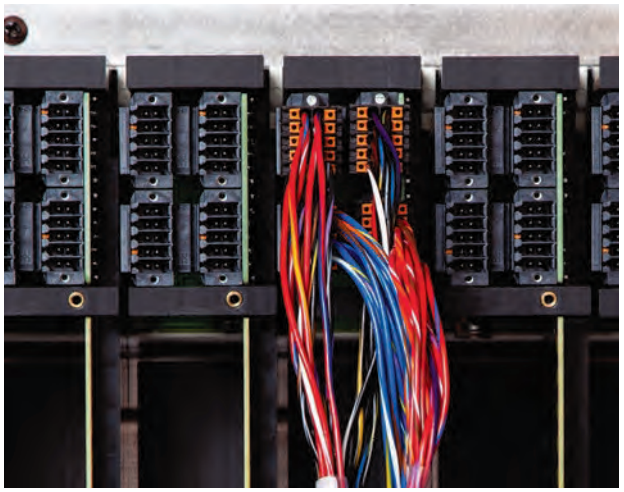
Our custom assembly services include:

- Pre-assembled DIN-rail modules
- Population of the backplane for enclosures
- Custom marking—plotter printing, wire and cable marking and equipment marking
- Kitting of parts you use routinely

# Migration Solutions

## Streamline Your DCS Migration

Weidmuller's universal conversion/migration platform will substantially reduce the time and expense of updating your legacy systems to any new DCS.



### Global approvals

The card adapters are cURus approved and the certified cables are UL and CSA listed. In addition, the cables are RoHS and FT4 rated at 300V.

### Uniquely designed solution

The key to Weidmuller's migration platform is in the design. It permits your existing field wiring to remain in place and undisturbed on the front panel adapter and eliminates the need to wire-trace or ring-out.

### Compatibility means flexibility

The assembly is a universal conversion/migration system for all legacy Schneider Electric Modicon Quantum , Allen-Bradley PLC 5 1771 and Honeywell IPC-620 DCS systems, enabling you to seamlessly migrate to any new control system.

### Minimal components maximize migration efficiency

Our migration solution includes an adapter and a standard cable harness.

Custom cable options are available on request at www.weidmuller.com/migration.

Card Adapter

Connectors

Flying Ferrule Leads

UL & CSA approved Cables

# Migrate and test in hours, not weeks.

Here's how easy it is to migrate from your current DCS by using Weidmuller's patented migration platform:

## Start

Existing Control System

## Step 1

Remove existing
Field Wiring adapters

## Step 2

Remove existing
controller cards

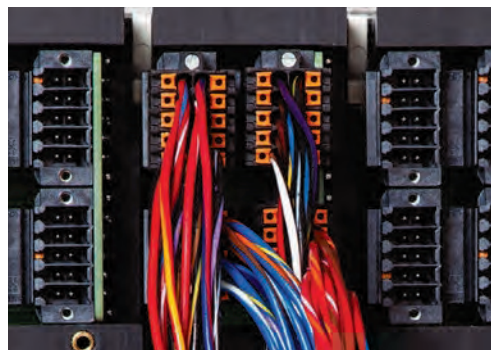
## Step 3

Replace controller
card with Weidmuller
adapter card

## Step 4

Reattach existing Field Wiring adapters

## Step 5



Connect cable with connectors to adapter card

## Finished

Completed & migrated DCS system

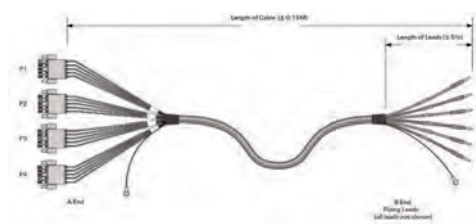
## Benefits

- Keep your existing field terminations landed. No ring out needed!
- Perform your DCS conversion in hours instead of weeks.
- All components are plug-and-play with keyed connectors to eliminate any chance of wiring errors.

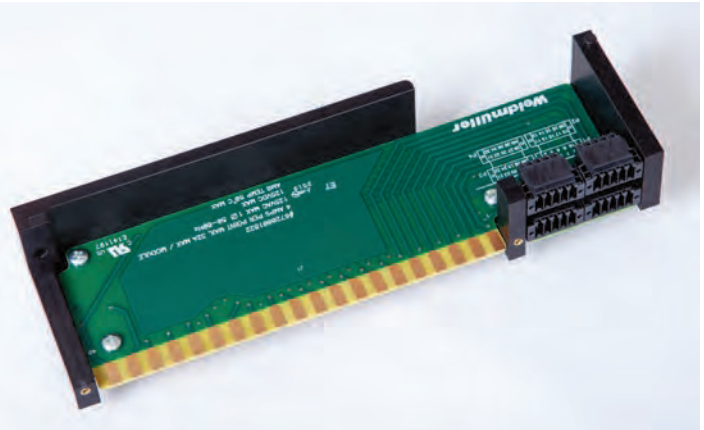
## Engineered Cables

**Select the cable configuration that best fits your application**

Specially engineered cables are designed and built to make the migration of your DCS simple and easy. The Migration Cable Configurator, a handy cable designer utility, is available to make cable design, selection and cost evaluation straightforward and fast.
Learn more at www.weidmuller.com/migration.



# Schneider Electric Modicon Quantum Universal Card Adapter



### Features

- Feed-through connections
- Modicon Quantum conversion to pluggable connector
- 40-point cards

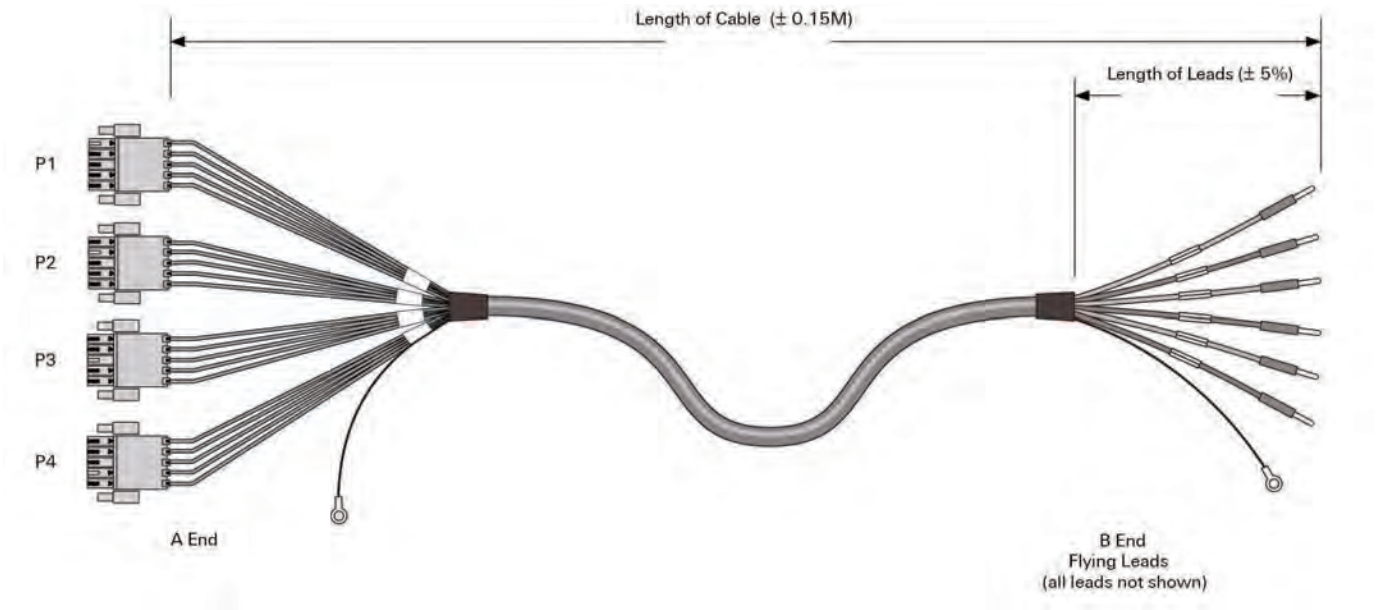
### Ordering data

| Type | Qty | Order Number |
|---|---|---|
| 40-point Modicon Quantum | 1 | **6720001822** |

### Technical data

| | |
|---|---|
| **Connection data** | |
| Original Field Wire Adapter | Card edge fingers on PCB for legacy style connectors |
| Weidmuller Migration Adapter | 3.5 pitch S2CD - THR headers<br>Four B2CF plugs with PUSH IN connection (Order Number 1277890000) |
| **Rated data** | |
| Rated voltage | 125VAC/125VDC max. |
| Max. current per channel | 4A per point max.<br>32 Amps per whole assembly |
| Operating temperature | -20°C to 50°C<br>0°C to 50°C (UL) |
| Storage temperature | -30°C to 70°C |
| **Approvals** | |
| Standards | cURus (E141197) |
| **Physicals** | |
| | Designed to fit in existing I/O chassis |
| **Note:** | **Cabling not included** |

# Modicon Quantum Migration Cables




Example: MQ1 - FFL10 - 18 - 010

MQ1 - FFL 10 - 18 - 010

**Marshalling Cable Modicon Quantum 40 Terminal Points**

| Flying Leads Type, B End | |
|---|---|
| FFL | Ferruled Flying Leads |
| BFL | Blunt-End Flying Leads |
| TFL | Tinned Flying Leads |
| RFL | Ring Lug Flying Leads |

| Flying Leads Length, B End* | |
|---|---|
| 03 | 0.3 meters |
| 10 | 1.0 meters |
| 99 | 9.9 meters |

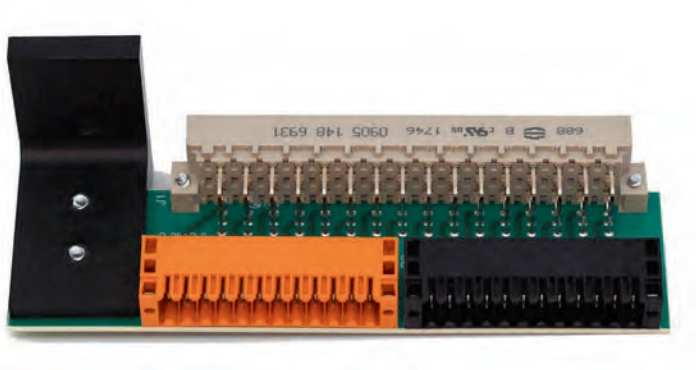
| Wire AWG | |
|---|---|
| 22 | 22 AWG |
| 18 | 18 AWG |

| Length of Cable in Meters* | |
|---|---|
| 1.5 | 1.5 meters |
| 005 | 5.0 meters |
| 010 | 10.0 meters |
| 100 | 100.0 meters |

* Notes:
- Lengths are customizable to your needs
- Custom cables are available on request

Visit our website to design your own custom migration cables: www.weidmuller.com/migration

# Siemens Moore APACS Universal Card Adapter



### Features

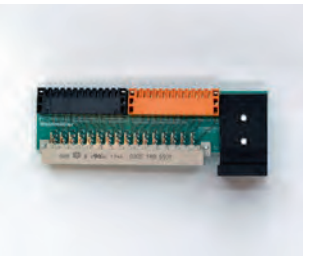
- 48-point cards
- Feed-through connections
- Siemens Moore APACS conversion to pluggable connector

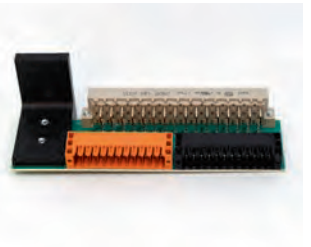
### Ordering data

| Model | Qty | Order Number |
|---|---|---|
| 48-point Siemens Moore APACS | 1 | **7940121185** |

## Technical data

| | | |
|---|---|---|
| **Connection data** | | |
| Original Field Wire Adapter | DIN 41612 Type E Connector 48 Pin | |
| Weidmüller Migration Adapter | 3.5 pitch S2L headers<br>Two B2CF plugs with PUSH IN connection<br>(Order Number: 1277970000 Black)<br>(Order Number: 1277780000 Orange) | |
| **Rated data** | | |
| Rated voltage | 125VAC/125VDC max. | |
| Max. current per channel | **Ordinary Locations** | **Hazardous Locations** |
| | 3A per point max. at 12 channels<br>36 Amps per whole assembly | 3A per point max. at 8 channels<br>24 Amps per whole assembly |
| Operating temperature | 0°C to 50°C | |
| Storage temperature | -30°C to 70°C | |
| **Approvals** | | |
| Standards | cURus (E141197), Class 1 Division 2,<br>Groups A, B, C, D T4A (E324123) | |
| **Physicals** | | |
| | Designed to fit in existing I/O chassis | |
| Note: | Cabling not included | |



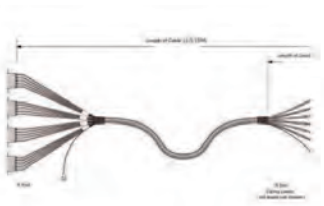


## Accessories

| Type | Qty | Order Number |
|---|---|---|
| Siemens Moore APACS Adapter Rack | 1 | **7508002174** |

# Migration Cables

## Select the cable configuration that best fits your application



Migration Cable Configurator

Customize your migration cable options

MIGRATION CABLE CONFIGURATOR

Weidmüller has teamed with designers to provide a simple and easy solution to migrate your control system. This migration system features universal card adapters and engineered cables.

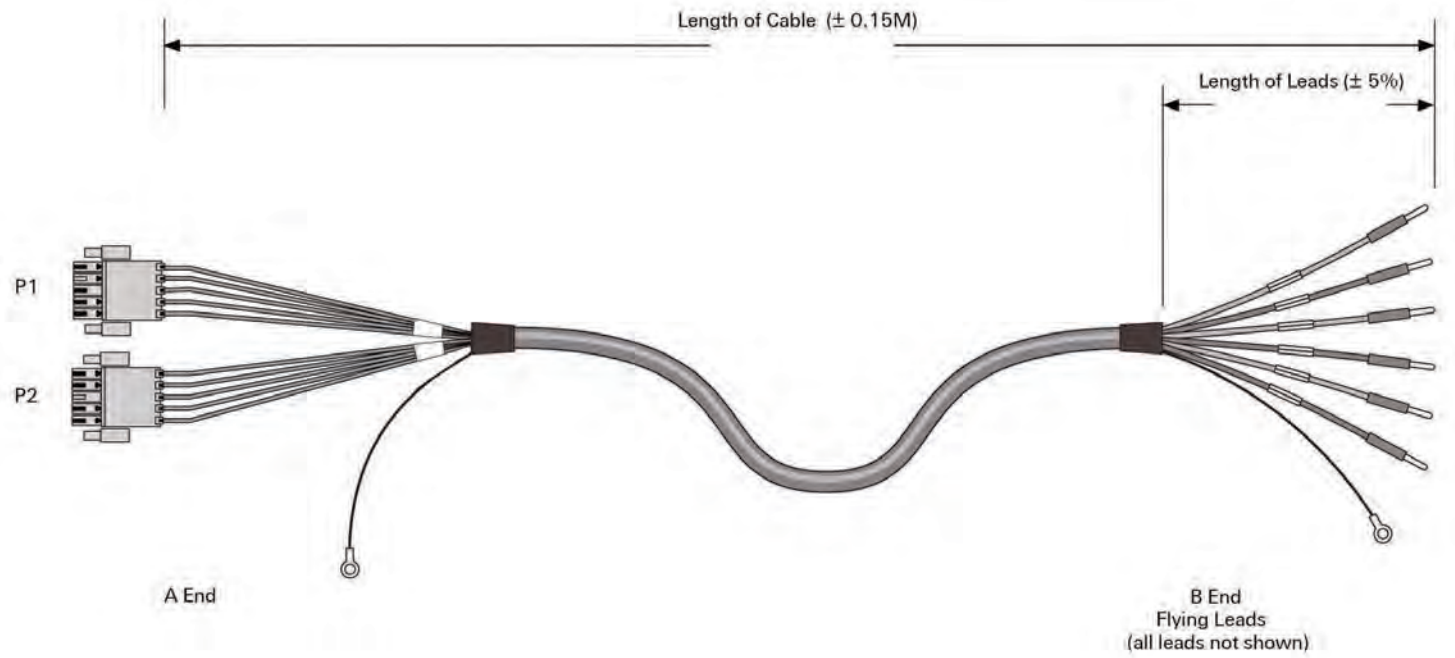
Weidmüller can provide you with the components and information needed to design your migration bill of materials.

Visit our website to start designing your migration system:

www.weidmuller.com/migration

## Engineered Cables

Specially engineered cables are designed and built to make the migration of your DCS simple and easy. The Migration Cable Configurator, a handy cable designer utility, is available to make cable design, selection, and cost evaluation straightforward and fast.




Example: SA1 - FFL10 - 22 - 010

SA1 - FFL 10 - 22 - 010

**Marshalling Cable**
**Siemens Moore**
**APACS**
**48 Terminal Points**

| Flying Leads Type, B End | |
|---|---|
| FFL | Ferruled Flying Leads |
| BFL | Blunt-End Flying Leads |
| TFL | Tinned Flying Leads |
| RFL | Ring Lug Flying Leads |

| Flying Leads Length, B End* | |
|---|---|
| 03 | 0.3 meters |
| ⋮ | ⋮ |
| 10 | 1.0 meters |
| ⋮ | ⋮ |
| 99 | 9.9 meters |

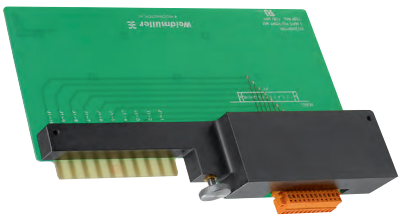
| Wire AWG | |
|---|---|
| 22 | 22 AWG |

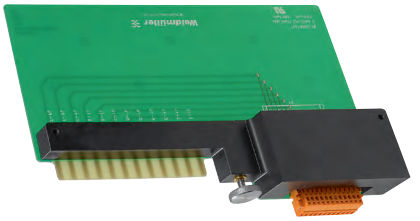
| Length of Cable in Meters* | |
|---|---|
| 1.5 | 1.5 meters |
| ⋮ | ⋮ |
| 005 | 5.0 meters |
| ⋮ | ⋮ |
| 010 | 10.0 meters |
| ⋮ | ⋮ |
| 100 | 100.0 meters |

* Notes:
- Lengths are customizable to your needs
- Custom cables are available on request

# Allen-Bradley PLC 5 1771 Universal Card Adaptors

- Feed through connections
- PLC 5 1771 conversion to pluggable connector(s)
- 10, 12, 18, 21 or 40 point cards



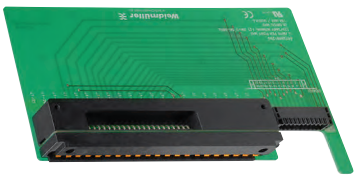


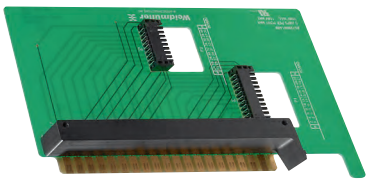
## Technical data

| Connection data | | |
|---|---|---|
| Process side | Card edge fingers on PWB for legacy style connectors | Card edge fingers on PWB for legacy style connectors |
| Type | OEM Connector | OEM Connector |
| Control side | One 3.5 pitch 12-pin SL header | One 3.5 pitch 12-pin SL header |
| Type | Screw type connection | Screw type connection |
| **Rated data** | | |
| Rated voltage | 250V max., 150V max. (UR) | 250V max., 150V max. (UR) |
| Max. current per channel | 5A | 5A |
| Operating temperature | 0°C to +50°C | 0°C to +50°C |
| Storage temperature | 0°C to +50°C | 0°C to +50°C |
| **Approvals** | | |
| Standards | cURus (E141197) | cURus (E141197) |
| **Physicals** | | |
| | Designed to fit in existing I/O rack | Designed to fit in existing I/O rack |
| **Note** | Cabling not included | Cabling not included |

## Ordering data

| | Type | Qty | Order Number | Type | Qty | Order Number |
|---|---|---|---|---|---|---|
| | 10-point PLC 5 1771-WA/ WC carrier | 1 | **6720001398** | 12-point PLC 5 1771-WB/ WD carrier | 1 | **6720001397** |
| **Note** | | | | | | |





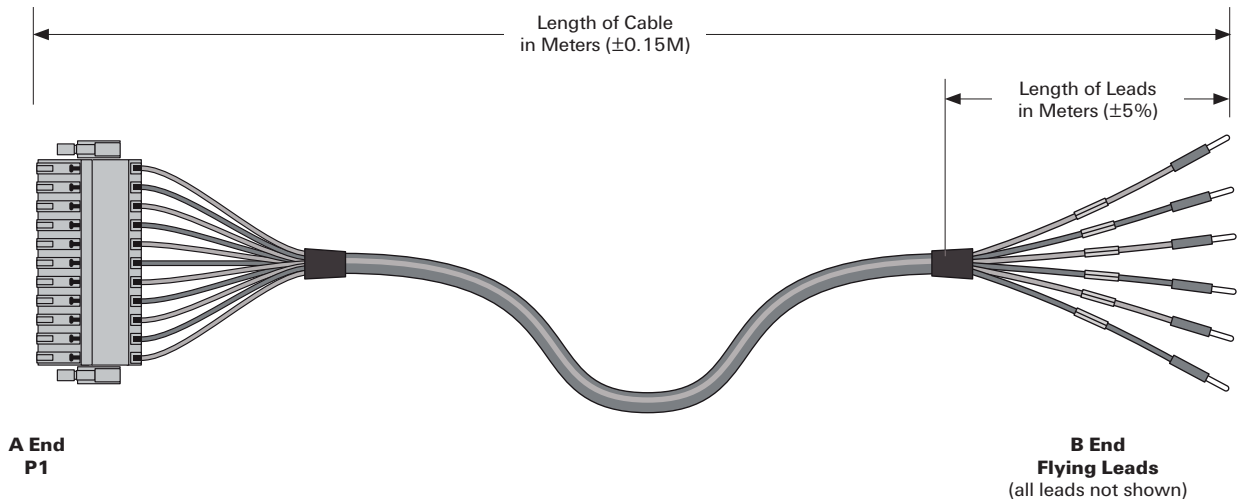
## Technical data

| Connection data | | | |
|---|---|---|---|
| Process side | Card edge fingers on PWB for legacy style connectors | Card edge fingers on PWB for legacy style connectors | Card edge fingers on PWB for legacy style connectors |
| Type | OEM Connector | OEM Connector | OEM Connector |
| Control side | One 3.5 pitch 22-pin S2L header | One 3.5 pitch 22-pin S2L header | One 3.5 pitch 18-pin + 22-pin S2L header |
| Type | Tension type connection | Tension type connection | Tension type connection |
| **Rated data** | | | |
| Rated voltage | 150V max. | 120/240V max. 1Ø3W+G | 250V max., 150V max. (UR) |
| Max. current per channel | 5A per point max.<br>10A per whole assembly | 5A per point max.<br>16A per whole assembly | 5A per point max.<br>10A per assembly |
| Operating temperature | 0°C to +50°C | 0°C to +50°C | 0°C to +50°C |
| Storage temperature | 0°C to +50°C | 0°C to +50°C | 0°C to +50°C |
| **Approvals** | | | |
| Standards | cURus (E141197) | cURus (E141197), CE | cURus (E141197) |
| **Physicals** | | | |
| | Designed to fit in existing I/O rack | Designed to fit in existing I/O rack | Designed to fit in existing I/O rack |
| **Note** | Cabling not included | Cabling not included | Cabling not included |

## Ordering data

| | Type | Qty | Order Number | Type | Qty | Order Number | Type | Qty | Order Number |
|---|---|---|---|---|---|---|---|---|---|
| | 18-point PLC 5 1771-WI carrier | 1 | **6720001399** | 21-point PLC 5 1771-G/H/F/FB carrier | 1 | **7940125460**<br>**7940125466** | 40-point PLC 5 1771-WN carrier | 1 | **6720001400** |
| **Note** | | | | | | | | | |

# PLC 5 Migration Cables




**Example: MCP52FFL101812010**

MC P52 FFL 10 18 12 010

| Marshalling Cable PLC5 |
|---|

| Cable Entry, A End | |
|---|---|
| P51 | 10 Terminal Points |
| P52 | 12 Terminal Points |
| P53 | 18 Terminal Points |
| P54 | 21 Terminal Points |
| P55 | 40 Terminal Points |

| Lead Type, B End | |
|---|---|
| FFL | Ferruled Flying Leads |
| BFL | Blunt-End Flying Leads |
| TFL | Tinned Flying Leads |
| RFL | Ring Lug Flying Leads |

| Length of Leads, B End* | |
|---|---|
| 03 | 0.3 meters |
| ⋮ | ⋮ |
| 10 | 1.0 meters |
| ⋮ | ⋮ |
| 99 | 9.9 meters |

| Wire AWG | |
|---|---|
| 22 | 22 AWG |
| 18 | 18 AWG |

| No. of Wires | |
|---|---|
| 10 | 10 Points |
| 12 | 12 Points |
| 18 | 18 Points |
| 21 | 21 Points |
| 40 | 40 Points |

| Length of Cable in Meters* | |
|---|---|
| 1.5 | 1.5 meters |
| ⋮ | ⋮ |
| 005 | 5.0 meters |
| ⋮ | ⋮ |
| 010 | 10.0 meters |
| ⋮ | ⋮ |
| 100 | 100.0 meters |

*Note: Lengths can be customized to your needs

Visit our website to design your own custom migration cables: www.weidmuller.com/migration

# Honeywell IPC 620 Universal Card Adaptors

- Feed through connections
- IPC-620 conversion to pluggable connector(s)
- 12, 22, 24, 34 or 38 point cards

## Technical data

| Connection data | | |
|---|---|---|
| Process side | Card edge fingers on PWB for legacy style connectors | Card edge fingers on PWB for legacy style connectors |
| Type | Tension Clamp, OEM | Tension Clamp, OEM |
| Control side | One 3.5 pitch 12-point S2L connector | One 3.5 pitch 22-point S2L connector |
| Type | Tension type connection | Tension type connection |
| **Rated data** | | |
| Rated voltage | 150V max. | 150V max. |
| Max. current per channel | 5A | 5A |
| Operating temperature | 0°C to +50°C | 0°C to +50°C |
| Storage temperature | 0°C to +50°C | 0°C to +50°C |
| **Approvals** | | |
| Standards | cURus (E141197) | cURus (E141197) |
| **Physicals** | | |
| | Designed to fit in existing I/O rack | Designed to fit in existing I/O rack |
| **Note** | Cabling not included | Cabling not included |

## Ordering data

| | Type | Qty | Order Number |
|---|---|---|---|
| | 12-point IPC-620 carrier | 1 | **6720000787** |
| **Note** | Reference Honeywell Terminal Block 621-9949 | | |

| Type | Qty | Order Number |
|---|---|---|
| 22-point IPC-620 carrier | 1 | **6720000788** |
| Reference Honeywell Terminal Block 621-9950 | | |

## Technical data

| Connection data | | | |
|---|---|---|---|
| Process side | Two SL 5.00 pitch headers to mate to legacy connectors (2 x 19 points – 38 points total) | One 24-point SL 5.00 pitch header to mate to legacy connectors | Two SL 5.00 pitch headers to mate to legacy connectors (2 x 17 points – 34 points total) |
| Type | Screw type connection, OEM | Screw type connection, OEM | Screw type connection, OEM |
| Control side | Two 5.08 pitch 20-point SL headers | One 3.5 pitch 24-point S2L header | Two 5.08 pitch 20-pin SL headers |
| Type | Screw type connection | Tension type connection | Screw type connection |
| **Rated data** | | | |
| Rated voltage | 125V max. | 50V max. | 125V max. |
| Max. current per channel | 3A per point max.<br>10A per whole assembly | 3A per point max.<br>10A per whole assembly | 5A per point max.<br>12A per whole assembly |
| Operating temperature | 0°C to +50°C | 0°C to +50°C | 0°C to +50°C |
| Storage temperature | 0°C to +50°C | 0°C to +50°C | 0°C to +50°C |
| **Approvals** | | | |
| Standards | cURus (E141197) | cURus (E141197) | cURus (E141197) |
| **Physicals** | | | |
| | Designed to fit in existing I/O rack | Designed to fit in existing I/O rack | Designed to fit in existing I/O rack |
| **Note** | Cabling not included | Cabling not included | Cabling not included |

## Ordering data

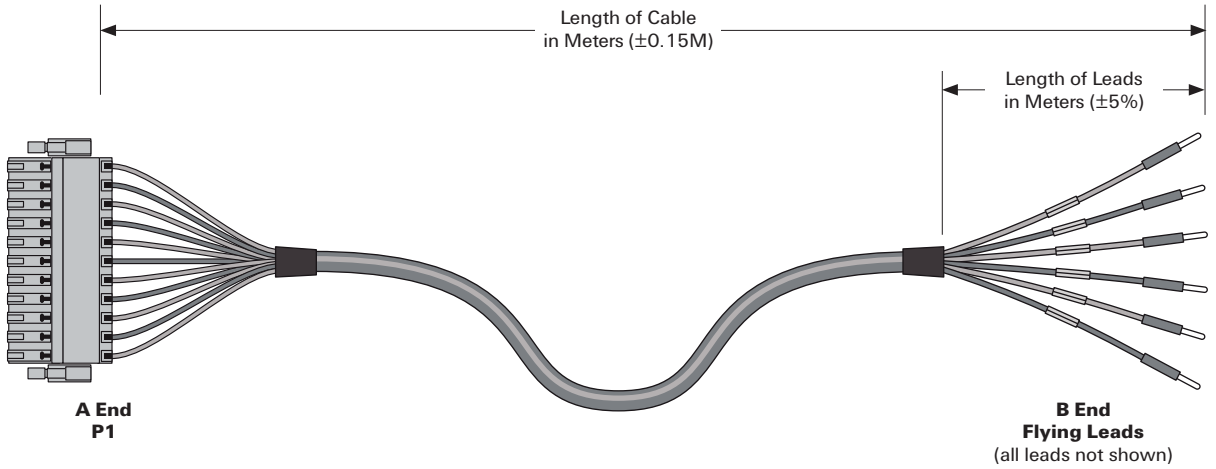
| | Type | Qty | Order Number |
|---|---|---|---|
| | 38-point IPC-620 carrier | 1 | **6720001225** |
| **Note** | Ref. Honeywell Terminal Block 621-9977 or -9976 | | |

| Type | Qty | Order Number |
|---|---|---|
| 24-point IPC-620 carrier | 1 | **6720001226** |
| Ref. Honeywell Terminal Block 621-9954 | | |

| Type | Qty | Order Number |
|---|---|---|
| 34-point IPC-620 carrier | 1 | **7940099973*** |

* indicates new order number

# IPC 620 Migration Cables




**Example: MCB2LFFL101822010**

MC B2L FFL 10 18 22 010

**Marshalling Cable IPC 620**

| Cable Entry, A End | |
|---|---|
| B1L | 12 Terminal Points |
| B2L | 22 Terminal Points |
| B3L | 24 Terminal Points |
| B4L | 38 Terminal Points |
| B5L | 34 Terminal Points |

| Lead Type, B End | |
|---|---|
| FFL | Ferruled Flying Leads |
| BFL | Blunt-End Flying Leads |
| TFL | Tinned Flying Leads |
| RFL | Ring Lug Flying Leads |

| Length of Leads, B End* | |
|---|---|
| 03 | 0.3 meters |
| 10 | 1.0 meters |
| 99 | 9.9 meters |

| Wire AWG | |
|---|---|
| 22 | 22 AWG |
| 18 | 18 AWG |

| No. of Wires | |
|---|---|
| 12 | 12 Points |
| 22 | 22 Points |
| 24 | 24 Points |
| 38 | 38 Points |
| 34 | 34 Points |

| Length of Cable in Meters* | |
|---|---|
| 1.5 | 1.5 meters |
| 005 | 5.0 meters |
| 010 | 10.0 meters |
| 100 | 100.0 meters |

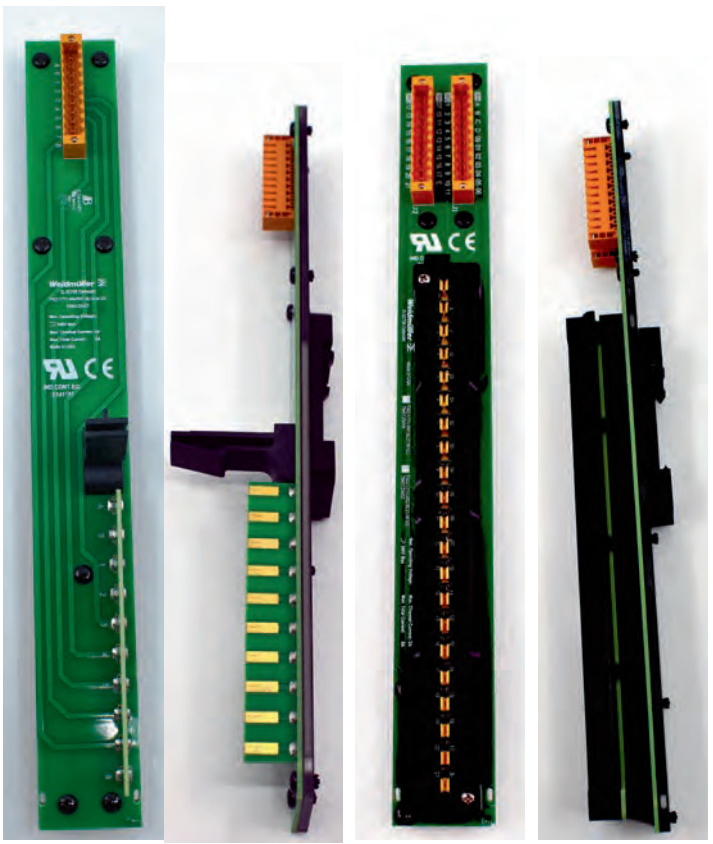
Visit our website to design your own custom migration cables: www.weidmuller.com/migration

# MiBridge Migration Solutions

## Streamline Your Migration with MiBridge

Weidmuller's universal conversion/migration platform will substantially reduce the time and expense of updating your legacy systems to any new PLC or DCS system.

With increasing plant complexity, the obsolescence of certain PLCs and the relentless growth in demand for I /O signals, many installations or plants are having to replace existing controllers with new ones, without modifying existing field cabling. With the aid of adapters, pre-assembled cables and interfaces from Weidmuller the problem of replacing one PLC system with another can be solved easily and safely: users can maintain the existing field cabling, test the new system and keep installation downtimes to a minimum.



### Global approvals

The card adapters are cURus approved and the certified cables are UL and CSA listed. In addition, the cables are RoHS and FT4 rated at 300V.

### Uniquely designed solution

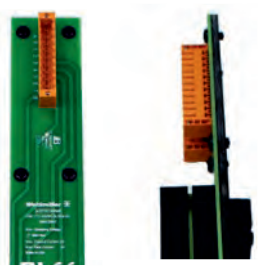
The key to Weidmuller's migration platform is in the design. It permits your existing field wiring to remain in place and undisturbed on the front panel adapter and eliminates the need to wire-trace or ring-out.

### Compatibility means flexibility

The assembly is a universal conversion/migration system for Allen-Bradley PLC 5 1771 enabling you to seamlessly migrate to any new control system.

### Minimal components maximize migration efficiency

Our migration solution includes an adapter and a standard cable harness. Custom cable options are available on request at www.weidmuller.com/migration.



Card Adapter

Connectors

Flying Ferruled Leads

UL & CSA Approved Cables

# Migrate and Test in Hours, Not Weeks.

## Update your PLC/DCS system quickly, easily and without errors

### Step 1

Disengage swing arms from 1771 modules

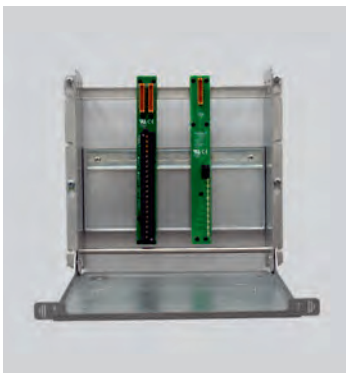
### Step 2

Remove the 1771 chassis from the cabinet

### Step 3

Replace with new adapter chassis

### Step 4



Install adapter card on chassis

### Step 5

Re-terminate the swing arm

### Step 6

Connect the migration cable to the adapter.

### Step 7

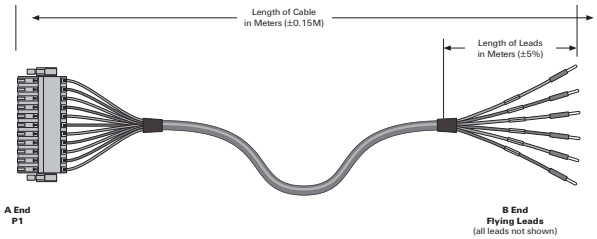
Mount the new PLC and connect adapter cable to new I/O card

### Finished

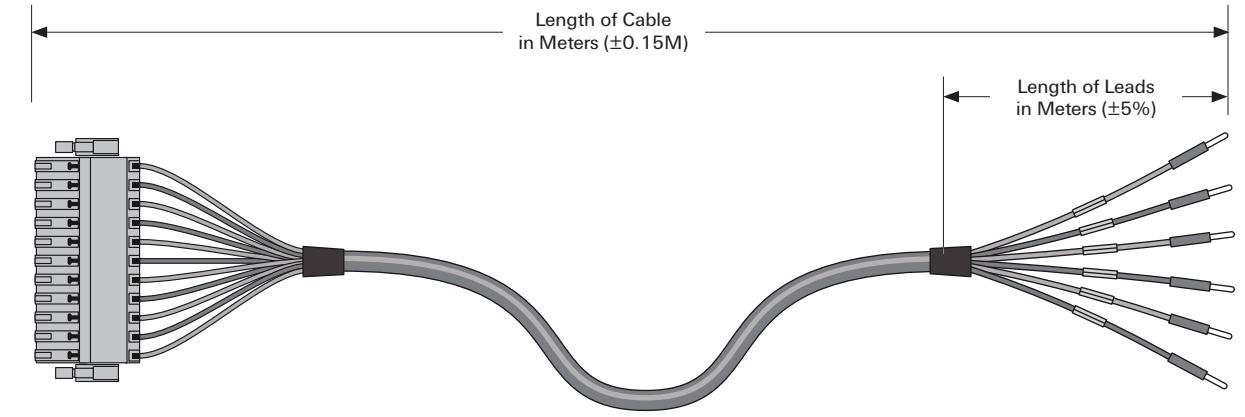
Completed PLC 5 migration

**Benefits**

- Keep your existing field terminations landed. No ring out needed!
- Perform your PLC conversion in hours instead of weeks.
- All components are plug-and-play with keyed connectors to eliminate any chance of wiring errors.



# PLC 5 Migration Cables




**Example: MCP52FFL101812010**

MC P52 FFL 10 18 12 010

**Marshalling Cable PLC5**

| Cable Entry, A End | |
|---|---|
| P51 | 10 Terminal Points |
| P52 | 12 Terminal Points |
| P53 | 18 Terminal Points |
| P54 | 21 Terminal Points |
| P55 | 40 Terminal Points |

| Lead Type, B End | |
|---|---|
| FFL | Ferruled Flying Leads |
| BFL | Blunt-End Flying Leads |
| TFL | Tinned Flying Leads |
| RFL | Ring Lug Flying Leads |

| Length of Leads, B End* | |
|---|---|
| 03 | 0.3 meters |
| ⋮ | ⋮ |
| 10 | 1.0 meters |
| ⋮ | ⋮ |
| 99 | 9.9 meters |

| Wire AWG | |
|---|---|
| 22 | 22 AWG |
| 18 | 18 AWG |

| No. of Wires | |
|---|---|
| 10 | 10 Points |
| 12 | 12 Points |
| 18 | 18 Points |
| 21 | 21 Points |
| 40 | 40 Points |

| Length of Cable in Meters* | |
|---|---|
| 1.5 | 1.5 meters |
| ⋮ | ⋮ |
| 005 | 5.0 meters |
| ⋮ | ⋮ |
| 010 | 10.0 meters |
| ⋮ | ⋮ |
| 100 | 100.0 meters |

*Note: Lengths can be customized to your needs

Visit our website to design your own custom migration cables: www.weidmuller.com/migration

Not migrating from a PLC 5 1771 platform? Contact your Weidmuller representative.
We have the knowledge and technology to help migrate other legacy control systems.

**Weidmuller – your system migration solution expert!**

| | FAD 1771-WA/WC SL10 M | FAD 1771-WH SL 21 M |
|---|---|---|
| | | |
| **Dimensions and weights** | | |
| Depth | 53 mm / 2.087 in. | 33 mm / 1.299 inch |
| Height | 269 mm / 10.591 in. | 269 mm / 10.591 inch |
| Width | 32 mm / 1.26 in. | 32 mm / 1.26 inch |
| Length | 269 mm / 10.591 in. | 269 mm / 10.591 in. |
| Net weight | 160 g | 205 g |
| **Temperatures** | | |
| Storage temperature | 0...50°C | 0...50°C |
| Operating temperature | 0...50°C | 0...50°C |
| **Connection Data** | | |
| Connection to PLC | SL 3.5/F 18p connector | 2 x SL 3.5/F 11p connector |
| **Ratings Data** | | |
| Max. current per channel | 2 A | 2 A |
| Total operating current | 8A | 8A |
| **Insultation coordination (EN50178)** | | |
| According to | DIN EN 50178 | DIN EN 50178 |
| Surge voltage category | II | II |
| Insulation test voltage | 1.2 kVAC | 1.2 kVAC |
| Rated insulation voltage | < 300 V AC | < 250 V AC |
| Pollution severity level | 2 | 2 |
| **Classifications** | | |
| ETIM 6.0 | EC002584 | EC002584 |
| ETIM 7.0 | EC002584 | EC002584 |
| ETIM 8.0 | EC002584 | EC002584 |
| ETIM 9.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 9.1 | 27-24-22-92 | 27-24-22-92 |
| ECLASS 10.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 11.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 12.0 | 27-33-02-92 | 27-33-02-92 |
| **Approvals** | | |
| **General Ordering Data** | | |
| **Order No.** | **7940125447** | **7940125448** |
| **Type** | FAD 1771-WA/WC SL10 M | FAD 1771-WH SL21 M |
| **GTIN (EAN)** | 8430243333931 | 4050118462463 |
| **Qty.** | 1 pc(s). | 1 pc(s). |

| | FAD 1771-WN 2SL20 M | FAD 1771- WB/WD SL12 M |
|---|---|---|
| | | |
| **Dimensions and weights** | | |
| Depth | 33 mm / 1.299 inch | 33 mm / 1.299 inch |
| Height | 269 mm / 10.591 inch | 269 mm / 10.591 inch |
| Width | 32 mm / 1.26 inch | 32 mm / 1.26 inch |
| Length | 269 mm / 10.591 in. | 269 mm / 10.591 in. |
| Net weight | 170 g | 162 g |
| **Temperatures** | | |
| Storage temperature | 0...50°C | 0...50°C |
| Operating temperatures | 0...50°C | 0...50°C |
| **Connection Data** | | |
| Connection to PLC | 2 x SL 3.5/F 20p connector | SL 3.5/F 12p connector |
| **Ratings Data** | | |
| Max. current per channel | 2 A | 2 A |
| Total operating current | 8A | 8A |
| **Insultation coordination (EN50178)** | | |
| According to | DIN EN 50178 | DIN EN 50178 |
| Surge voltage category | II | II |
| Insulation test voltage | 1.2 kVAC | 1.2 kVAC |
| Rated insulation voltage | < 250 V AC | < 300 V AC |
| Pollution severity level | 2 | 2 |
| **Classifications** | | |
| ETIM 6.0 | EC002584 | EC002584 |
| ETIM 7.0 | EC002584 | EC002584 |
| ETIM 8.0 | EC002584 | EC002584 |
| ETIM 9.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 9.1 | 27-24-22-92 | 27-24-22-92 |
| ECLASS 10.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 11.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 12.0 | 27-33-02-92 | 27-33-02-92 |
| **Approvals** | | |
| **General Ordering Data** | | |
| **Order Number** | **7940125449** | **7940125450** |
| **Type** | FAD 1771-WN 2SL20 M | FAD 1771-WB/WD SL12 M |
| **GTIN (EAN)** | 4050118462494 | 4050118462470 |
| **Qty.** | 1 pc(s). | 1 pc(s). |

| | FAD 1771-WF SL18 M | FAD 1771-WG SL21 M0 |
|---|---|---|
| | | |
| **Dimensions and weights** | | |
| Depth | 53 mm / 2.087 in. | 33 mm / 1.299 inch |
| Height | 269 mm / 10.591 in. | 269 mm / 10.591 inch |
| Width | 32 mm / 1.26 in. | 32 mm / 1.26 inch |
| Length | 269 mm / 10.591 in. | 269 mm / 10.591 in. |
| Net weight | 159 g | 200 g |
| **Temperatures** | | |
| Storage temperature | 0...50°C | 0...50°C |
| Operating temperatures | 0...50°C | 0...50°C |
| **Connection Data** | | |
| Connection to PLC | SL 3.5/F 18p connector | 2 x SL 3.5/F 11p connector |
| **Ratings Data** | | |
| Max. current per channel | 2 A | 2 A |
| Total operating current | 8A | 8A |
| **Insultation coordination (EN50178)** | | |
| According to | DIN EN 50178 | DIN EN 50178 |
| Surge voltage category | II | II |
| Insulation test voltage | 1.2 kVAC | 1.2 kVAC |
| Rated insulation voltage | < 250 V AC | < 250 V AC |
| Pollution severity level | 2 | 2 |
| **Classifications** | | |
| ETIM 6.0 | EC002584 | EC002584 |
| ETIM 7.0 | EC002584 | EC002584 |
| ETIM 8.0 | EC002584 | EC002584 |
| ETIM 9.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 9.1 | 27-24-22-92 | 27-24-22-92 |
| ECLASS 10.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 11.0 | 27-33-02-92 | 27-33-02-92 |
| ECLASS 12.0 | 27-33-02-92 | 27-33-02-92 |
| **Approvals** | | |
| **General Ordering Data** | | |
| **Order Number** | **7940125451** | **7940125452** |
| **Type** | FAD 1771-WF SL18 M | FAD 1771-WG SL21 M |
| **GTIN (EAN)** | 4050118462487 | 4050118572575 |
| **Qty.** | 1 pc(s). | 1 pc(s). |

# PLC & Remote I/O Solutions

Network & Automation

## Reliability in the transmission of signals and data

u-remote offers the perfect solution for all common areas of application within machinery construction. Whether it's used as a pure panel system, in mixed IP20 and IP67 applications or even positioned directly in the field for signal connection, u-remote grants you complete freedom to create a flexible I/O architecture and gives you the benefits of an integrated complete system.

# u-control

Our formula: “Compact. Flexible. Secure. **u-control**“

The constantly increasing growth of data volumes worldwide requires even more powerful and flexible control solutions. Our u-control 2000 hardware - along with the suitable engineering environment from our u-create software portfolio - provides you with a flexible control system for automation or digitalization.

The controllers modular design is based on the remote I/O system u-remote and allows for needs-based expansion to include other components from the u-mation family.

For modern IIoT applications, automation technology needs to be increasingly more powerful and adaptable. u-mation offers a coordinated hardware portfolio designed for the future-proof preparation of your machines and systems.

## Controls (PLC)

| Description | System Data | Type | Order Number |
|---|---|---|---|
| Controller, IP20, u-control 2000 web, Automation Controller, Web-based | 2x Ethernet TCP/IP, 1x Micro USB,<br>Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM,<br>4 GB memory (Flash), 32 GB via microSD, up to 32 IO modules | UC20-WL2000-AC | **1334950000** |

## Engineering and Visualization Tools

| Software | Description | Type | Order Number |
|---|---|---|---|
| **PROCON Web** | Scalable and platform-independent visualization software | | |
| | Operating system: Windows. Configurable target system: u-control Runtime. Up to 2000 tags. | U-CREATE-PROCON-WEB-D-ES-2000 | **2705830000** |
| u-create PROCON Web DESIGNER | Platform for runtime system: u-control. Up to 2000 tags. | U-CREATE-PROCON-WEB-RT-ES-2000 | **2708630000** |

Learn more: www.weidmuller.com/software

**Explore our application solutions “from data to value” with our comprehensive and cutting-edge IIoT portfolio**

www.weidmuller.com/iiot

# Remote I/O Solutions

Our formula: "More Performance. Simplified. **u-remote**."

Weidmuller's u-remote is an IP20 remote I/O solution designed with the user in mind. It is designed to work with virtually all PLC and HMI or Soft PLC.

- Only I/O system with individual pluggable connectors per channel
- Built in webserver with "RUN" mode capabilities
- Multifunction electronics
- Analog I/O points can be configured for individual measurement ranges per channel
- Hot swappable; completely modular system
- Narrow size of 11.5mm per slice for all channel slices
- LED indication per I/O point
- Isolated 10A current paths
- USB access on every fieldbus coupler

## Fieldbus Coupler

| Fieldbus Protocol | Connection | Transmission Rate | Type | Order Number |
|---|---|---|---|---|
| PROFIBUS DP | 9-pole SUB-d plug | 12 Mbps | UR20-FBC-PB-DP-V2 | **2614380000** |
| PROFINET IO with RT& IRT | 2x RJ45 | 100 Mbps | UR20-FBC-PN-IRT-V2 | **2566380000** |
| EtherCAT | 2x RJ45 | 100 Mbps | UR20-FBC-EC | **1334910000** |
| Ethernet/IP | 2x RJ45 | 100 Mbps | UR20-FBC-EIP | **1334920000** |
| FBC IEC 61162-450 | 2x RJ45 | 100 Mbps | UR20-FBC-IEC61162-450 | **2661310000** |
| Modbus TCP | 2x RJ45 | 100 Mbps | UR20-FBC-MOD-TCP-V2 | **2476450000** |
| CANopen | Plug-in PCB connector | 1 Mbps | UR20-FBC-CAN | **1334890000** |
| DeviceNet | Plug-in PCB connector | 500 Kbps | UR20-FBC-DN | **1334900000** |
| CC-Link | Plug-in PCB connector | 10 Mbps | UR20-FBC-CC | **2625010000** |
| EtherNet/IP | 2x RJ45 | 100 Mbps | UR20-FBC-EIP-V2 | **1550550000** |
| CC-Link IE TSN | 2x RJ45 | 1 Gbps | UR20-FBC-CC-TSN | **2680260000** |
| POWERLINK | 2x RJ45 | 100 Mbps | UR20-FBC-PL | **1334940000** |
| **ECO Line** | | | | |
| PROFINET IO | 2x RJ45 | 100 Mbps | UR20-FBC-PN-ECO | **2659680000** |
| EtherCAT | 2x RJ45 | 100 Mbps | UR20-FBC-EC-ECO | **2659690000** |
| Modbus TCP | 2x RJ45 | 100 Mbps | UR20-FBC-MOD-TCP-ECO | **2659700000** |
| Ethernet/IP | 2x RJ45 | 100 Mbps | UR20-FBC-EIP-ECO | **2799510000** |

## Digital Input Modules

| Inputs | Sensor Connection | Input | Type | Order Number |
|---|---|---|---|---|
| 4 digital inputs | 2-wire, 3-wire, 3-wire+FE | 24 VDC, P-switching | UR20-4DI-P | **1315170000** |
| 4 digital inputs | 2-wire, 3-wire, 3-wire+FE | 24 VDC, N-switching | UR20-4DI-N | **1315350000** |
| 4 digital inputs | 2-wire | 110 – 230 VAC | UR20-4DI-2W-230V-AC | **1550070000**** |
| 4 digital inputs | 2-wire, 3-wire | 24 VDC, P-switching | UR20-4DI-P-3W | **2009360000** |
| 8 digital inputs | 2-wire | 24 VDC, P-switching | UR20-8DI-P-2W | **1315180000** |
| 8 digital inputs | 2-wire, 3-wire | 24 VDC, P-switching | UR20-8DI-P-3W | **1394400000** |
| 8 digital inputs | 2-wire, 3-wire, IDC | 24 VDC, P-switching | UR20-8DI-P-3W-HD | **1315190000*** |
| 8 digital inputs | 2-wire, 3-wire | 24 VDC, N-switching | UR20-8DI-N-3W | **1315370000** |
| 8 digital inputs | 2-wire | 24 V DC and 48 V DC | UR20-8DI-ISO-2W | **2457240000** |
| 16 digital inputs | 1-wire | 24 VDC, P-switching | UR20-16DI-P | **1315200000** |
| 16 digital inputs | 1-wire | 24 VDC, N-switching | UR20-16DI-N | **1315390000** |
| 16 digital inputs | PLC interface | 24 VDC, P-switching | UR20-16DI-P-PLC-INT | **1315210000** |
| 16 digital inputs | PLC interface | 24 VDC, N-switching | UR20-16DI-N-PLC-INT | **1315400000** |
| | **Time Stamp** | | | |
| 2 digital inputs | 2-wire, 3-wire, 3-wire+FE | 24 VDC, P-switching | UR20-2DI-P-TS | **1460140000** |
| 4 digital inputs | 2-wire, 3-wire, 3-wire+FE | 24 VDC, P-switching | UR20-4DI-P-TS | **1460150000** |

*Required HD connectors in Accessories section **Consult factory for availability

## Digital Output Modules

| Outputs | Actuator Connection | Output/channel | Type | Order Number |
|---|---|---|---|---|
| 4 digital outputs | 2-wire, 3-wire, 3-wire+FE | 0.5 A, P-switching | UR20-4DO-P | **1315220000** |
| 4 digital outputs | 2-wire, 3-wire, 3-wire+FE | 0.5 A, N-switching | UR20-4DO-N | **1315410000** |
| 4 digital outputs | 2-wire, 3-wire, 3-wire+FE | 2.0 A, P-switching | UR20-4DO-P-2A | **1315230000** |
| 4 digital outputs | 2-wire, 3-wire, 3-wire+FE | 2.0 A, N-switching | UR20-4DO-N-2A | **1315420000** |
| 4 digital outputs | Push/Pull | 2.0 A, P-/N-switching | UR20-4DO-PN-2A | **1394420000** |
| 4 digital outputs | 2-wire | 48 V AC/DC | UR20-4DO-ISO-4A | **2457250000** |
| 8 digital outputs | 2-wire | 0.5 A, P-switching | UR20-8DO-P | **1315240000** |
| 8 digital outputs | 2-wire | 0.5 A, N-switching | UR20-8DO-N | **1315430000** |
| 8 digital outputs | 2-wire, IDC | 0.5 A, P-switching | UR20-8DO-P-HD | **1509830000*** |
| 16 digital outputs | 1-wire | 0.5 A, P-switching | UR20-16DO-P | **1315250000** |
| 16 digital outputs | 1-wire | 0.5 A, N-switching | UR20-16DO-N | **1315440000** |
| 16 digital outputs | PLC interface | 0.5 A, N-switching | UR20-16DO-N-PLC-INT | **1315450000** |
| 16 digital outputs | PLC interface | 0.5 A, P-switching | UR20-16DO-P-PLC-INT | **1315270000** |
| | **Relay Output/1CO** | | | |
| 4 digital outputs | Change over contact | 277 VAC/DC/5.0 A | UR20-4RO-CO-255 | **1315550000** |
| | **Solid-state Output** | | | |
| 4 digital outputs | SSR/triac | 277 VAC/1.0 A | UR20-4RO-SSR-255 | **1315540000** |

## Digital Input and Output Modules

| Outputs | Actuator Connection | Output/channel | Type | Order Number |
|---|---|---|---|---|
| 8 digital Inputs / 8 digital outputs | 2-wire, 3-wire | 24 VDC, P-switching | UR20-8DIO-P-3W-DIAG | **2456530000** |

**No Separate Programming Software Required.**
Embedded webserver can be accessed via iPad/Android/Windows based systems.

**u-remote Configurator**
- Automatic power calculations
- Automatic calculation of slices based on user requirements
- Auto labelling and integration into M-Print Pro
- Export to numerous CAD programs
- Custom Order Number and labelling
- 3D viewing and renderings

WMC

## Analog Input Modules

| Inputs | Sensor Connection | Resolution | Type | Order Number |
|---|---|---|---|---|
| | **Current (0 – 20 mA, 4 – 20 mA), Voltage (0 – 5 V, ±5 V, 0 – 10 V, ±10 V, 1 – 5 V, 2 – 10 V)** | | | |
| 4 selectable inputs | 2-wire, 3-wire, 3-wire+FE | 12 Bit | UR20-4AI-UI-12 | **1394390000** |
| 4 selectable inputs | 2-wire, 3-wire, 3-wire+FE | 16 Bit | UR20-4AI-UI-16 | **1315620000** |
| 4 selectable inputs | 2-wire, 3-wire, 3-wire+FE | 16 Bit with channel diagnostics | UR20-4AI-UI-16-DIAG | **1315690000** |
| 4 selectable inputs | IDC 2-wire, 3-wire, 3-wire+FE | 16 Bit | UR20-4AI-UI-16-HD | **1506920000*** |
| 4 selectable inputs | IDC 2-wire, 3-wire, 3-wire+FE | 16 Bit with channel diagnostics | UR20-4AI-UI-16-DIAG-HD | **1506910000*** |
| 4 selectable inputs | 2-wire, 3-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AI-I-HART-16-DIAG | **2617520000** |
| 4 differential inputs | 2-wire, 3-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AI-UI-DIF-16-DIAG | **1993880000** |
| 4 differential inputs | 2-wire, 3-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AI-UI-DIF-32-DIAG | **2544660000** |
| | **Current (0 – 20 mA, 4 – 20 mA)** | | | |
| 8 selectable inputs | PLC-Interface, 2-wire | 16 Bit | UR20-8AI-I-PLC-INT | **1315670000**** |
| 8 selectable inputs | IDC 2-wire, 3-wire, 3-wire+FE | 16 Bit | UR20-8AI-16-HD | **1315650000*,**** |
| 8 selectable inputs | IDC 2-wire, 3-wire, 3-wire+FE | 16 Bit with channel diagnostics | UR20-8AI-16-DIAG-HD | **1315720000*,**** |

*Required HD connectors in Accessories section **Consult factory for availability

## Analog Output Modules

| Outputs | Actuator Connection | Resolution | Type | Order Number |
|---|---|---|---|---|
| | **Current (0 – 20 mA, 4 – 20 mA), Voltage (0 – 5 V, 0 – 10 V, ±10 V, 1 – 5 V, 2 – 10 V)** | | | |
| 4 selectable outputs | 2-wire, 4-wire | 16 Bit | UR20-4AO-UI-16 | **1315680000** |
| 4 selectable outputs | 2-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AO-UI-16-DIAG | **1315730000** |
| 4 selectable outputs | 2-wire, 4-wire | 16 Bit | UR20-4AO-UI-16-HD | **1510690000** *,** |
| 4 selectable outputs | 2-wire or 4-wire | 16 Bit | UR20-4AO-UI-16-M | **2453880000** |
| 4 selectable outputs | 2-wire or 4-wire | 16 Bit with individual channel diagnosis | UR20-4AO-UI-16-M-DIAG | **2453870000** |
| 4 selectable outputs | 2-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AO-UI-16-DIAG-HD | **1506930000** *,** |

## Temperature Modules and Potentiometer Input Module

| Inputs | Sensor Connection | Resolution | Type | Order Number |
|---|---|---|---|---|
| | **Thermocouple Sensors: J, K, T, B, N, E, R, S, L, U, C, mV** | | | |
| 4 analog inputs | 2 wire | 16 Bit with individual channel diagnosis | UR20-4AI-TC-DIAG | **1315710000** |
| | **RTD Sensors: Pt100, 200, 500, 1000; Ni100, 120, 200, 500, 1000; Cu10; resistances from 40 Ω – 4000 Ω** | | | |
| 4 analog inputs | 2-wire, 3-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AI-RTD-DIAG | **1315700000** |
| 4 analog inputs | 2-wire, 3-wire, 4-wire | 16 Bit with individual channel diagnosis | UR20-4AI-RTD-HP-DIAG | **2456540000** |
| 8 analog inputs | 2-wire | 16 Bit with individual channel diagnosis | UR20-8AI-RTD-DIAG-2W | **2555940000** |
| | **Potentiometer; Measuring range from 300 Ω ... 50 kΩ** | | | |
| 4 analog inputs | 3-wire, 3-wire+FE | 16 Bit with individual channel diagnosis | UR20-4AI-R-HS-16-DIAG | **2001670000** |

## Pulse Width Modulation and Stepper Motor Modules

| Outputs | Actuator Connection | Output/channel | Type | Order Number |
|---|---|---|---|---|
| 2 digital outputs | Push/Pull / High-side (selectable) | PWM / 0.5 A | UR20-2PWM-0.5A | **1315600000** |
| 2 digital outputs | Push/Pull / High-side (selectable) | PWM / 2.0 A | UR20-2PWM-2A | **1315610000** |
| | **Stepper Motor Module** | | | |
| 6 digital Inputs / 2 digital outputs | 2-wire, 3-wire | 24 VDC, P-switching | UR20-1SM-50W-6DI2DO-P | **2489830000** |

## Counter Modules

| Channels | Function | Frequency | Type | Order Number |
|---|---|---|---|---|
| 1 channel | Counter, latch, gate, reset, digital output | 100 KHz | UR20-1CNT-100-1DO | **1315570000** |
| 2 channel | Counter | 100 KHz | UR20-2CNT-100 | **1315590000** |
| 2 channel | Frequency counter | 100 KHz | UR20-2FCNT-100 | **1508080000** |
| 1 channel | Counter, reset | 500 KHz | UR20-1CNT-500 | **1315580000***,** |

## Serial Interface Modules

| Inputs | Actuator Connection | Transfer Rate | Type | Order Number |
|---|---|---|---|---|
| | **Synchronous Serial Interface (SSI)** | | | |
| 1 SSI input | RS422 | 125 KHz – 3 MHz | UR20-1SSI | **1508090000**** |
| | **Serial COMM interface** | | | |
| 1 channel | Serial communication (RS232, RS485, RS422) | 300 and 230400 bps | UR20-1COM-232-485-422-V2 | **2826800000** |
| | **SAI Subbus Interface** | | | |
| 1 channel | SAI-PRO Subbus | 250 kBps | UR20-1COM-SAI-PRO | **2007430000** |
| | **IO Link Master Interface** | | | |
| 4 Digital Inputs / 4 IO Link Interface | DIO / IO Link channel | 4.8 kBaud / 38.4 kBaud / 230.4 kBaud | UR20-4COM-IO-LINK | **1315740000** |

*Required HD connectors in Accessories section

**Consult factory for availability

## Designed with Safety in Mind

Using a standard PLC, machine operators achieve a maximum degree of safety and complete control. All input sensors are independently supplied via separate voltage paths and report the current machine or system status to the control unit. Restart is performed either manually or via the auto-start function. All modules are certified by TÜV Nord and bear the "TÜV type test approved" symbol.

- Receive complete status information about the inputs and outputs thanks to the complete integration of the safe power-feed modules in the u-remote system. In a solution relying on external devices, this would not be possible in this form.
- The PF-SIL can be installed at any position in a station. All subsequent output modules can be safely disconnected from the PF-SIL module.
- Emergency stop buttons as well as safety light curtains can be connected.
- For the default, if no emergency stop exists, either an auto start or manual start can be selected by the two inputs.
- Auto start: The safe output current path will be switched on again immediately after resetting the emergency stop circuit.
- Manual reset: The output current path is only switched on again after the reset button has been pressed for a time between 0.2 and 2 seconds.

## Safe Power-feed Modules

| | Inputs | Outputs | Type | Order Number |
|---|---|---|---|---|
| Integrated Safety | Attainable safety standard: Category 4, PLe (acc. to DIN EN ISO 1 3849-1); SIL 3 (acc. to IEC 61508) **Connection for one emergency stop circuit** | | | |
| | 1 digital input | OSSD output | UR20-PF-O-1DI-SIL | **1335030000** |
| | **Connection for two emergency stop circuits** | | | |
| | 2 digital inputs | OSSD output | UR20-PF-O-2DI-SIL | **1335050000** |
| | **Connection for two emergency stop circuits, switch-off following adjustable delay** | | | |
| | 2 digital inputs | OSSD output, SS1 output | UR20-PF-O-2DI-DELAY-SIL | **1335040000** |

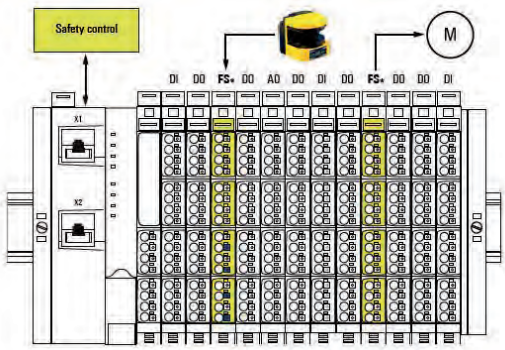
## Safe I/O Modules

| | Inputs | Outputs | Protocol | Type | Order Number |
|---|---|---|---|---|---|
| Integrated Safety | Attainable safety standard: Category 4, PLe (acc. to DIN EN ISO 1 3849-1); SIL 3 (acc. to IEC 61508) | | | | |
| | 4 digital inputs | 4 digital outputs | PROFIsafe | UR20-4DI-4DO-PN-FSPS-V2 | **2464570000** |
| | 8 digital inputs | | PROFIsafe | UR20-8DI-PN-FSPS-V2 | **2464590000** |
| | 4 digital inputs | 4 digital outputs | Fail Safe over EtherCAT (FSoE) | UR20-4DI-4DO-PN-FSOE-V2 | **2464580000** |
| | 8 digital inputs | | Fail Safe over EtherCAT (FSoE) | UR20-8DI-PN-FSOE-V2 | **2464600000** |

## Accessories

| Function | Note | Type | Order Number |
|---|---|---|---|
| Termination kit | Included in the box with every Fieldbus coupler | UR20-EBK-ACC | **1346610000** |
| Module marker | - | DEK 5/8-11.5 MC NE WS | **1341630000** |
| Connection marker for pusher | - | PM 2.7/2.6 MC NE WS | **1323710000** |
| Swivel marker | Projects over on-board wiring | UR20-SM-ACC | **1339920000** |
| Sign for swivel marker | 1 roll = 60 labels = 1 PU (printable on laser printer) | ESO UR20 DIN A4 WS | **1429430000** |
| Empty slot module | | UR20-ES | **1315770000** |
| HD plug | Quantity = 8 pieces per pack | UR20-PG0.35 | **1469340000** |

*Required HD connectors in Accessories section **Consult factory for availability




Example set-up of safe I/O modules (FS*) in a u-remote station

# u-remote IP67

Weidmuller u-remote – our innovative remote I/O concept with IP 67 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, no more downtime. For considerably improved performance and greater productivity, offering more flexible automation.

u-remote's IP67 family combines all the field benefits offered by u-remote IP20 in a device with an increased degree of protection and is perfectly equipped for signal connection outside of the panel.

It demonstrates a high degree of flexibility in terms of the connection options with IO-Link and scores top marks with a variable power supply. Another impressive feature of IP67 is its multiprotocol capability. For you, this translates into less effort, fewer costs and maximum performance at the same time.

u-remote stands for "More Performance". Simplified.

## Features and Benefits

- Robust design
- Productivity in a very confined space
- Top performance despite temperature fluctuations
- Adjust a protocol instead of swapping a module
- Active communication in the field with I/O Link

## Multiprotocol

| Type | Module variants | Bus system | Transmission Rate | Input current, low | Qty | Order Number |
|---|---|---|---|---|---|---|
| UR67-MP-78-8DIDO-12-60M | 8 digital inputs, 8 digital outputs | PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol | 10/100 Mbit/s | Type 1 in acc. with IEC 61131-2 | 1 | **2426320000** |
| UR67-MP-HP-8DIDO-12-60M | 8 digital inputs, 8 digital outputs | PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol | 10/100 Mbit/s | Type 1 in acc. with IEC 61131-2 | 1 | **2426290000** |
| UR67-MP-78-16DI-12-60M | 16 digital inputs | PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol | 10/100 Mbit/s | Type 1 in acc. with IEC 61131-2 | 1 | **2426300000** |
| UR67-MP-HP-16DI-12-60M | 16 digital inputs | PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol | 10/100 Mbit/s | Type 1 in acc. with IEC 61131-2 | 1 | **2426270000** |

| Fieldbus Protocol | Interface | Description |
|---|---|---|
| Sensor-actuator active distributor, PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol | | Available in different configurations: 8-16 DI, DO, DIDO, M12, 60M |
| Sensor-actuator active distributor, PROFINET V2.3 | I/O Link | 8 IO link, 4 x type A, 4 x type B available in 30 mm and 60 mm |

Other Fieldbus Protocols are available: www.weidmuller.com/URIP67

# u-view

## Touch and Industrial Panels

- Optimized for the most advanced web applications
- Simple and intuitive configuration
- Available with different screen sizes
- cULus Listed
- C1D2

### Touch Panels

| Description | System Data | Type | Order Number |
|---|---|---|---|
| **ECO Line** | | | |
| web-compatible touch panel, Display size 4.3", resistive, Front protection IP66 | Interfaces: 1x Ethernet 10/100 MBit/s (RJ45), 1x micro USB 2.0 (Type B)<br>Memory (Flash) 4 GB<br>Memory (RAM) 512 MB<br>Operating system Linux + Browser (HTML5)<br>Processor ARM Cortex A9 800 MHz i.MX6 Solo | UV66-ECO-4-RES-W | **2555660000** |
| web-compatible touch panel, Display size 7", resistive, Front protection IP66 | | UV66-ECO-7-RES-W | **2555780000** |
| web-compatible touch panel, Display size 10.1", resistive, Front protection IP66 | | UV66-ECO-10-RES-W | **2555790000** |
| **Basic Line** | | | |
| web-compatible touch panel, Display size 7", resistive, Front protection IP66 | Interface 2 x Ethernet 10/100/1000 MBit/s (RJ45), 2 x USB 2.0 (host), 1 x serial RS-232/RS-485/RS-422<br>Memory (Flash) 4 GB<br>Memory (RAM) 1 GB<br>Operating system Linux + Browser (HTML5)<br>Processor ARM Cortex A9 1 GHz NXP® i.MX6 DualLite | UV66-BAS-7-RES-W | **2555810000** |
| web-compatible touch panel, Display size 10.1", resistive, Front protection IP67 | | UV66-BAS-10-RES-W | **2555820000** |
| **Advance Line** | | | |
| web-compatible touch panel, Display size 7", MultiTouch, Capacitive, Front protection IP66 | Interface 2 x Ethernet 10/100/1000 MBit/s (RJ45), 2 x USB 2.0 (host), 1 x serial RS-232/RS-485/RS-422<br>Memory (Flash) 4 GB<br>Memory (RAM) 1 GB<br>Operating system Linux + Browser (HTML5)<br>Processor ARM Cortex A9 1 GHz NXP® i.MX6 DualLite | UV66-ADV-7-CAP-W | **2555830000** |
| web-compatible touch panel, Display size 10.1", MultiTouch, Capacitive, Front protection IP66 | | UV66-ADV-10-CAP-W | **2555840000** |
| web-compatible touch panel, Display size 10.1", MultiTouch, Capacitive, Front protection IP67 | | UV66-ADV-15-CAP-W | **2555850000** |

Automate or digitalize a wide range of processes with our innovative engineering software such as u-create web, u-create studio and u-create PROCON-WEB. Learn more: www.weidmuller.com/software

## Reliable Industrial PCs for your automation

The u-view high-performance IPCs and Panel PCs enable the flexible control, operation and monitoring of machines and systems. They are highly reliable and designed for state-of-the-art visualization, control and IIoT applications.

The u-view IPC and Panel PC series use the latest, passively cooled Intel® Atom™, Celeron™ and Core™ i-processors. By selecting from high-quality aluminium housings in various sizes, a wide range of interfaces and selectable operating systems, you can build IPCs that optimally fit your requirements. The Panel PCs close the gap between IPCs and HMIs by combining the high-quality display technology of u-view HMIs with the performance of state-of-the-art hardware.

### Industrial PCs

| Description | System Data | Display Size | Type | Order Number |
|---|---|---|---|---|
| **Industrial Monitors** | | | | |
| Industrial Monitor, Display MultiTouch, Capacitive touch, Front protection IP66 | 1x VGA, 1x DVI-D, 2x USB 2.0 | 10.1" | UV66-ADV-10-IPM-10 | **2676660000** |
| | | 12.1" | UV66-ADV-12-IPM-10 | **2676670000** |
| | | 15.6" | UV66-ADV-15-IPM-10 | **2676680000** |
| | | 18.5" | UV66-ADV-18-IPM-10 | **2676690000** |
| | | 21.0" | UV66-ADV-21-IPM-10 | **2676700000** |

## Industrial PCs

| Description | System Data | Display Size | Type | Order Number |
|---|---|---|---|---|
| **Edge Industrial PC 1000** | | | | |
| Industrial PC, IP20,<br>2 x Ethernet 10/100/1000 MBit/s (RJ45),<br>2x USB 3.0,<br>1x Displayport™ | Memory 60 GB m.2 SSD; Memory (RAM) 2 GB DDR4, soldered<br>GPU Intel® HD Graphics 500, 400MHz / 550MHz<br>Operating system no pre-installed operating System<br>Processor Intel Atom® x5-E3930 - Dual Core 1.3 GHz (1.8 GHz Burst) | | UV20-B-IPC-1000.01 | **2676340000** |
| | Memory 60 GB - 120 GB m.2 SSD; Memory (RAM) 4 GB, DDR4, soldered<br>GPU Intel® HD Graphics 505, 500MHz / 650MHz<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Entry<br>Processor Intel Atom® x7-E3950 - Quad Core 1.6 GHz (2.0 GHz Burst) | | UV20-B-IPC-1011.01 | **2665800000** |
| | | | UV20-B-IPC-1011.02 | **2676350000** |
| **Edge Industrial PC 2000** | | | | |
| Industrial PC, IP20,<br>2 x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 2.0, 1x USB 3.0, 1x DVI-D, 1x RS232 (DB9M),<br>1x Cfast slot<br>GPU Intel HD Graphics for Z3700, 688MHz | Memory 60 GB mSATA SSD; Memory (RAM) 4 GB, DDR3<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Entry<br>Processor Intel® Celeron® J1900 - Quad Core 2.0 GHz (2.42 GHz Burst) | | UV20-B-IPC-2001.01 | **2676370000** |
| | Memory 60 GB mSATA SSD; Memory (RAM) 4 GB, DDR3<br>Operating system no pre-installed operating System<br>Processor Intel® Celeron® J1900 - Quad Core 2.0 GHz (2.42 GHz Burst) | | UV20-B-IPC-2001.02 | **2665810000** |
| | Memory 120 GB mSATA SSD; Memory (RAM) 4 GB, DDR3<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Entry<br>Processor Intel® Celeron® J1900 - Quad Core 2.0 GHz (2.42 GHz Burst) | | UV20-B-IPC-2001.03 | **2676380000** |
| **Edge Industrial PC 3000** | | | | |
| Industrial PC, IP20, 3x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 3.0, 1x DVI-D, 1 x Cfast slot, 1x USB 3.0, Battery Type CR2032 | Memory 60 GB mSATA SSD; Memory (RAM) 4 GB DDR4; GPU Intel® HD Graphics 510<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value<br>Processor Intel® Celeron® 3955U - Dual Core 2.0 GHz | | UV20-B-IPC-3000.01 | **2676390000** |
| | Memory 60 GB mSATA SSD; Memory (RAM) 4 GB DDR4; GPU Intel® HD Graphics 520<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value<br>Processor Intel® Core™ i3-6100U - Dual Core 2.3 GHz | | UV20-B-IPC-3010.01 | **2676400000** |
| | Memory 120 GB mSATA SSD; Memory (RAM) 8 GB DDR4; GPU Intel® HD Graphics 520<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value<br>Processor Intel® Celeron® 3955U - Dual Core 2.0 GHz | | UV20-B-IPC-3021.01 | **2676410000** |
| | Memory 120 GB mSATA SSD; Memory (RAM) 8 GB DDR4; GPU Intel® HD Graphics 520<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value<br>Processor Intel Core i7-6600U 2,6GHz, up to 3,4GHz boost | | UV20-B-IPC-3031.01 | **2665820000** |
| | Memory 120 GB mSATA SSD; Memory (RAM) 16 GB DDR4; GPU Intel® HD Graphics 520<br>No pre-installed Operating System; Processor Intel Core i7-6600U 2,6GHz, up to 3,4GHz boost | | UV20-B-IPC-3032.01 | **2676420000** |
| **Compact Industrial Panel PC IPPC 1000** | | | | |
| Industrial Panel-PC, Display, BAS: Resistive - ADV: Capacitive touch, Front protection IP66, 2 x Ethernet 10/100/1000 MBit/s (RJ45), 1x USB 3.0, 1x USB 2.0, 1x Cfast slot + 2 x USB 2.0 (ADV) | Memory 60 GB mSATA SSD<br>Memory (RAM) 4 GB, DDR4<br>GPU Intel HD Graphics for Z3700, 688MHz<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit<br>Processor Intel Celeron J1900 Quad Core 2,0 GHz, up to 2,42 GHz boost<br>Touch Resistive Single-Touch (BAS) / Capacitive Multi-Touch (ADV) | | UV66-BAS/ ADV-7-IPPC-1001.01 | **BAS: 2676430000**<br>**ADV: 2665830000** |
| | | | UV66-BAS/ ADV-10-IPPC-1001.01 | **BAS: 2676450000**<br>**ADV: 2676460000** |
| | | | UV66-BAS/ ADV-12-IPPC-1001.01 | **BAS: 2676470000**<br>**ADV: 2676480000** |
| | | | UV66-BAS/ ADV-15-IPPC-1001.01 | **BAS: 2676490000**<br>**ADV: 2676500000** |
| **Industrial Panel – PC 3000** | | | | |
| Industrial Panel-PC, Capacitive touch, MultiTouch, Front protection IP66, 3x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 3.0, 1x USB 2.0, 1x DVI-I, 1x RS232 (DB9M) | Memory 60 GB mSATA SSD<br>Memory (RAM) 4 GB, DDR3<br>GPU HD (Broadwell)<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value<br>Processor Intel® Celeron® 3765U - Dual Core 1.9 GHz | 12.1" Display | UV66-ADV-12-IPPC-3001.01 | **2676510000** |
| | | 15.6" Display | UV66-ADV-15-IPPC-3001.01 | **2676530000** |
| | | 18.5" Display | UV66-ADV-18-IPPC-3001.01 | **2676550000** |
| | | 21.5" Display | UV66-ADV-21-IPPC-3001.01 | **2676570000** |
| | Memory 120 GB mSATA SSD<br>Memory (RAM) 8 GB, DDR3<br>GPU Intel® HD Graphics 6000<br>Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value<br>Processor Intel Core i5-5350U 1,8GHz, up to 2,9GHz boost | 12.1" Display | UV66-ADV-12-IPPC-3022.01 | **2676520000** |
| | | 15.6" Display | UV66-ADV-15-IPPC-3022.01 | **2676540000** |
| | | 18.5" Display | UV66-ADV-18-IPPC-3022.01 | **2676560000** |
| | | 21.5" Display | UV66-ADV-21-IPPC-3022.01 | **2676580000** |

# Distribution Boxes, Signal Connectors & Cordsets

Network & Automation

## Interface Solutions

Weidmuller is one of the industry's leading international providers of connectors. An important mainstay in this product family are the circular connectors, which Weidmuller groups under the product name SAI. In the development of SAI products, Weidmuller engineers have always concentrated on achieving rational, cost-effective installation concepts and – in cooperation with major users – have supplied the markets with well-conceived products which set standards in terms of functionality and quality across the globe. The best examples are the new power distributors with S and T coded M12. These modules are characterised by particularly high currents and voltages. This enables them to also be used, for example, with three-phase motors.

# Sensor-Actuator Blocks

## Sensor-Actuator-Interface (SAI) Series

- Industrial automation products (junction boxes) designed to be installed directly into your machine application
- Choice of metal or plastic housing—protects from high heat, corrosion, dust and water submersion
- Complete sets—pluggable cable hood or fixed cable—with no extra parts to buy or stock
- Totally sealed with epoxy-encapsulated environmental protection—IP 67/68 (NEMA 6/6P)
- Available in 4, 6 or 8 ports and 3, 4 or 5 pin M12 or Harax® connectors

### SAI-MMS

- Metal housing provides continuous shielding of connections from sensors to control side
- The only fully shielded junction box on the market with M12 EMC-compliant screw connections and 4- and 5-pin configurations
- Pluggable hood with EMC-compliant cable glands for pre-assembling homerun cable
- Designed for use in high heat and harsh environments
- UL and CSA approved

| Poles | Type | Order Number |
|---|---|---|
| 4 | SAI-4 MMS 4P M12 | **1783540000** |
| 4 | SAI-8 MMS 4P M12 | **1783530000** |
| 5 | SAI-4 MMS 5P M12 | **1783520000** |
| 5 | SAI-8 MMS 5P M12 | **1783510000** |

SAI-MMS

### SAI-MHD

- Plastic base and metal hood
- For standard trunk cables and choice of homerun cable entry
- Allows for utilization of larger diameter cables
- For cables with outside insulation diameter from 13 mm (0.51 in)...18 mm (0.71 in)
- Accommodates 90°or 180°homerun cable connection

| Poles | Type | Order Number |
|---|---|---|
| 4 | SAI-4 MHD 4P M12 | **1705923000** |
| 4 | SAI-8 MHD 4P M12 | **1705943000** |
| 5 | SAI-8 MHD 5P M12 | **1701253000** |

SAI-MHD

### SAI-ECO

- Cost effective alternative
- Plastic threaded rings
- Available in 4, 6 or 8 ports
- cRUus approved

| Poles | Type | Order Number |
|---|---|---|
| 5 | SAI-4-M 5P M12 ECO | **1892100000** |
| 5 | SAI-6-M 5P M12 ECO | **1892090000** |
| 5 | SAI-8-M 5P M12 ECO | **1892080000** |

SAI-ECO

### SAI Y-distributors

- Weidmuller offers a wide range of plug-in connectors for custom assembly. Y-distributors have EAC approvals and are used to bundle and distribute multiple signals to save space.

| Description | Type | Order Number |
|---|---|---|
| Y-plug, M12 / M8 | SAI-Y-4-4/2-4 M12/M8 | **1783420000** |

SAI-Y-Distributor

## SAI-M Micro Connector

- Pluggable disconnect module, providing high application flexibility
- Choice of pluggable potential isolation with simple jumper change
- 4-pole version with 1 signal per port; 5-pole version with 2 signals per port
- Standard plug-in and pin layout
- Protection class: IP 68 (NEMA 6P); UL and CSA approved

| Poles | Type | Order Number |
|---|---|---|
| 4 | SAI-4-M 4P M12 | **1705920000** |
| 4 | SAI-8-M 4P M12 | **1705940000** |
| 5 | SAI-4-M 5P M12 1:1 | **1806010000** |
| 5 | SAI-4-M 5P M12 | **1701230000** |
| 5 | SAI-8-M 5P M12 | **1701250000** |
| 5 | SAI-6-M 5P M12 | **1701240000** |

SAI-M Micro Connector

## SAI-F Micro Connector

- Pre-attached homerun cable
- C-Track compatible polyurethane homerun cable; available in 5, 10, 15 and 20 meter lengths
- 4-pole version with 1 signal per port; 5-pole version with 2 signals per port
- Protection class: IP 68 (NEMA 6P); UL and CSA approved

| Poles | Type | Order Number |
|---|---|---|
| 4 | SAI-4-F 4P PUR 5M | **9456190000** |
| 4 | SAI-4-F 4P PUR 10M | **9456200000** |
| 4 | SAI-4-F 4P PUR 20M | **9456230000** |
| 4 | SAI-8-F 4P PUR 5M | **9456750000** |
| 4 | SAI-8-F 4P PUR 10M | **9456760000** |
| 4 | SAI-8-F 4P PUR 20M | **9456790000** |
| 5 | SAI-4-F 5P PUR 5M | **9456330000** |
| 5 | SAI-4-F 5P PUR 10M | **9456340000** |
| 5 | SAI-4-F 5P PUR 20M | **9456370000** |
| 5 | SAI-8-F 5P PUR 5M | **9456890000** |
| 5 | SAI-8-F 5P PUR 10M | **9456900000** |
| 5 | SAI-8-F 5P PUR 20M | **9456930000** |

SAI-F Micro Connector

## M8 Distributor with Fixed Cable

- Narrow, short and flat M8 distributor
- Marking options at all connection positions

| Poles | Type | Order Number |
|---|---|---|
| 3 | SAI-06L-VPFC-3A-M08L-PNP-05U02 | **1828700000** |
| 3 | SAI-08L-VPFC-3A-M08L-PNP-10U03 | **1828670000** |
| 3 | SAI-08L-VPFC-3A-M08L-PNP-05U03 | **1828680000** |

SAI M8 Distributor

# Accessories

- Full line of sockets, plugs and cable assemblies
- Connectors include pre-fabricated and field attachable Types
- All standard connection types supported including M5, M8, M12 and M23

## SAI Socket Connectors

### M8 and M12 Customizable Connectors — IDC Connections

| Type | Description | Connector | Poles | Order Number |
|---|---|---|---|---|
| SAIS-3-IDC-M8 | Male, straight | M8 | 3 | **1784040001** |
| SAIS-4-IDC-M8 | Male, straight | M8 | 4 | **1784060001** |
| SAIB-3-IDC-M8 | Female, straight | M8 | 3 | **1784030001** |
| SAIB-4-IDC-M8 | Female, straight | M8 | 4 | **1784050001** |
| SAIS-4-IDC M12 | Male, straight | M12 | 4 | **1781550001** |
| SAIB-4-IDC M12 | Female, straight | M12 | 4 | **1781540001** |
| SAISW-4-IDC M12 | Male, right angle | M12 | 4 | **1812870000** |
| SAIBW-4-IDC M12 | Female, right angle | M12 | 4 | **1812890000** |

SAIS-M8-4P

SAIS-3-IDC-M8

### M8 Customizable Connectors — Screw Connection

| Type | Description | Poles | Order Number |
|---|---|---|---|
| SAIS-M8-3P | Male, straight | 3 | **1803860000** |
| SAIS-M8-4P | Male, straight | 4 | **1803850000** |
| SAIB-M8-3P | Female, straight | 3 | **1803870000** |
| SAIB-M8-4P | Female, straight | 4 | **1803880000** |

## SAI Socket Connectors - continued

### M12 Customizable Connectors — Screw Connection

| Type | Description | Number of Poles | Order Number |
|---|---|---|---|
| SAIS-3/7 | Male, straight, PG 7 | 3 | **1021470000** |
| SAIS-4/7 | Male, straight, PG 7 | 4 | **9457550000** |
| SAIS-5/7 | Male, straight, PG 7 | 5 | **9456940000** |
| SAIS-3/9 | Male, straight, PG 9 | 3 | **1021480000** |
| SAIS-4/9 | Male, straight, PG 9 | 4 | **1807340000** |
| SAIS-5/9 | Male, straight, PG 9 | 5 | **1807350000** |
| SAIS-8/9 | Male, straight, PG 9 | 8 | **1836970000** |
| SAIB-3/7 | Female, straight, PG 7 | 3 | **1021490000** |
| SAIB-4/7 | Female, straight, PG 7 | 4 | **9457240000** |
| SAIB-5/7 | Female, straight, PG 7 | 5 | **9457250000** |
| SAIB-3/9 | Female, straight, PG 9 | 3 | **1021510000** |
| SAIB-4/9 | Female, straight, PG 9 | 4 | **1807230000** |
| SAIB-5/9 | Female, straight, PG 9 | 5 | **1807250000** |
| SAIB-8/9 | Female, straight, PG 9 | 8 | **1836960000** |
| SAISW-3/7 | Male, right angle, PG 7 | 3 | **1021280000** |
| SAISW-4/7 | Male, right angle, PG 7 | 4 | **9457290000** |
| SAISW-5/7 | Male, right angle, PG 7 | 5 | **9456950000** |
| SAISW-3/9 | Male, right angle, PG 9 | 3 | **1021290000** |
| SAISW-4/9 | Male, right angle, PG 9 | 4 | **1807360000** |
| SAISW-5/9 | Male, right angle, PG 9 | 5 | **1807370000** |
| SAIBW-3/7 | Female, right angle, PG 7 | 3 | **1021310000** |
| SAIBW-4/7 | Female, right angle, PG 7 | 4 | **9457700000** |
| SAIBW-5/7 | Female, right angle, PG 7 | 5 | **9457260000** |
| SAIBW-3/9 | Female, right angle, PG 9 | 3 | **1021320000** |
| SAIBW-4/9 | Female, right angle, PG 9 | 4 | **1807240000** |
| SAIBW-5/9 | Female, right angle, PG 9 | 5 | **1807330000** |

**SAIS-5/7-Straight**

**SAISW-5/7-Right Angle**

### M12 Customizable Metal Connectors for Shielded Cables — Screw Connection

| Type | Description | Number of Poles | Order Number |
|---|---|---|---|
| FBCON M12 4PM EMC | Male, straight | 4 | **9455640000** |
| SAIS-M-5/8S M12 5P A-COD | Male, straight | 5 | **1784740000** |
| SAISH-8/11 | Male, straight, PG 9 | 8 | **1118910000** |
| FBCON M12 4PFM EMC | Female, straight | 4 | **8426220000** |
| SAIB-M-5/8S M12 5P A-COD | Female, straight | 5 | **1784750000** |
| SAIBH-8/11 | Female, straight, PG 9 | 8 | **1118920000** |
| SAISW-M-4/8 M12 | Male, right angle | 4 | **1803930000** |
| SAISW-M-5/8 M12 | Male, right angle | 5 | **1803940000** |
| SAIBW-M-4/8 M12 | Female, right angle | 4 | **1803910000** |
| SAIBW-M-5/8 M12 | Female, right angle | 5 | **1803920000** |
| SAIBM 5/8S M12 5P B-COD | Female socket, straight | 5 | **1784780000** |
| SAIBM-4/8S-M12-4P D-COD | Female socket, straight | 4 | **1892130000** |

**SAIB-M-5/8 M12 5P A-COD**

### M8 Customizable Connectors for Shielded Cables — Screw Connection

| Type | Description | Number of Poles | Order Number |
|---|---|---|---|
| SAISM-M8-3P (IF) | Male, straight | 3 | **1010060000** |
| SAISM-M8-4P (IF) | Male, straight | 4 | **1010070000** |
| SAIBM-M8-3P (IF) | Female, straight | 3 | **1010080000** |
| SAIBM-M8-4P (IF) | Female, straight | 4 | **1010090000** |

**SAISW-M-5/8 M12**

# Cables

Halogen-free PUR Cable for Continuous Flex Applications
- Recommended for C-track applications
- Rated for over 20 million bending cycles
- Halogen-free PUR material is oil, grease and lubricant resistant
- IP67 rated for use directly on the machine
- Also available with PVC cable and torsion rated PUR cable for robotic applications
- Options with plastic or stainless steel coupling nuts for corrosive environments available

All cables listed have a cable length of 1.5 meters. To order other Weidmuller standard cable lengths, change the last four digits of the Order Number as follows:
1.5m xxxxxx0150, 3.0m xxxxxx0300, 5.0m xxxxxx0500, 10m xxxxxx1000

## SAI Sensor Cables

### M12, One End Without Connector

| Type | Description | Number of Poles | Length | Order Number |
|---|---|---|---|---|
| SAIL-M12G-3-1.5U | Plug, Straight | 3 | 1.5m | 9457810150 |
| SAIL-M12G-4-1.5U | Plug, Straight | 4 | 1.5m | 9456100150 |
| SAIL-M12G-5-1.5U | Plug, Straight | 5 | 1.5m | 9457610150 |
| SAIL-M12W-3-1.5U | Plug, Angled | 3 | 1.5m | 9456690150 |
| SAIL-M12W-4-1.5U | Plug, Angled | 4 | 1.5m | 1906260150 |
| SAIL-M12W-5-1.5U | Plug, Angled | 5 | 1.5m | 9457670150 |
| SAIL-M12BG-3-1.5U | Socket, Straight | 3 | 1.5m | 9457820150 |
| SAIL-M12BG-4-1.5U | Socket, Straight | 4 | 1.5m | 9457730150 |
| SAIL-M12BG-5-1.5U | Socket, Straight | 5 | 1.5m | 9457910150 |
| SAIL-M12BW-3-1.5U | Socket, Angled | 3 | 1.5m | 9457320150 |
| SAIL-M12BW-4-1.5U | Socket, Angled | 4 | 1.5m | 9457740150 |
| SAIL-M12BW-5-1.5U | Socket, Angled | 5 | 1.5m | 9457690150 |

M12, one end without connector

### M8, One End Without Connector

| Type | Description | Number of Poles | Length | Order Number |
|---|---|---|---|---|
| SAIL-M8GS-3-1.5U | Plug, Straight | 3 | 1.5m | 1824590150 |
| SAIL-M8GS-4-1.5U | Plug, Straight | 4 | 1.5m | 1906270150 |
| SAIL-M8WS-3-1.5U | Plug, Angled | 3 | 1.5m | 1857550150 |
| SAIL-M8WS-4-1.5U | Plug, Angled | 4 | 1.5m | 1857560150 |
| SAIL-M8GBS-3-1.5U | Socket, Straight | 3 | 1.5m | 9457450150 |
| SAIL-M8GBS-4-1.5U | Socket, Straight | 4 | 1.5m | 9457850150 |
| SAIL-M8WBS-3-1.5U | Socket, Angled | 3 | 1.5m | 9457380150 |
| SAIL-M8WBS-4-1.5U | Socket, Angled | 4 | 1.5m | 9456150150 |

M12 to M8, LED

### M12 to M8, LED

| Type | Description | Number of Poles | Length | Order Number |
|---|---|---|---|---|
| SAIL-M12GM8WS-3L1.5U | Plug Straight, Socket Angled | 3 | 1.5m | 9457760150 |
| SAIL-M12GM8WS-4L1.5U | Plug Straight, Socket Angled | 4 | 1.5m | 1906430150 |

M8 to M8, LED

### M8 to M8, LED

| Type | Description | Number of Poles | Length | Order Number |
|---|---|---|---|---|
| SAIL-M8GSM8WS-3L1.5U | Plug Straight, Socket Angled | 3 | 1.5m | 1877250150 |
| SAIL-M8GSM8WS-4L1.5U | Plug Straight, Socket Angled | 4 | 1.5m | 1906450150 |

M12 to M12, LED

### M12 to M12, LED

| Type | Description | Number of Poles | Length | Order Number |
|---|---|---|---|---|
| SAIL-M12GM12W-3L1.5U | Plug Straight, Socket Angled | 3 | 1.5m | 9457790150 |
| SAIL-M12GM12W-4L1.5U | Plug Straight, Socket Angled | 4 | 1.5m | 1906410150 |

# Accessories

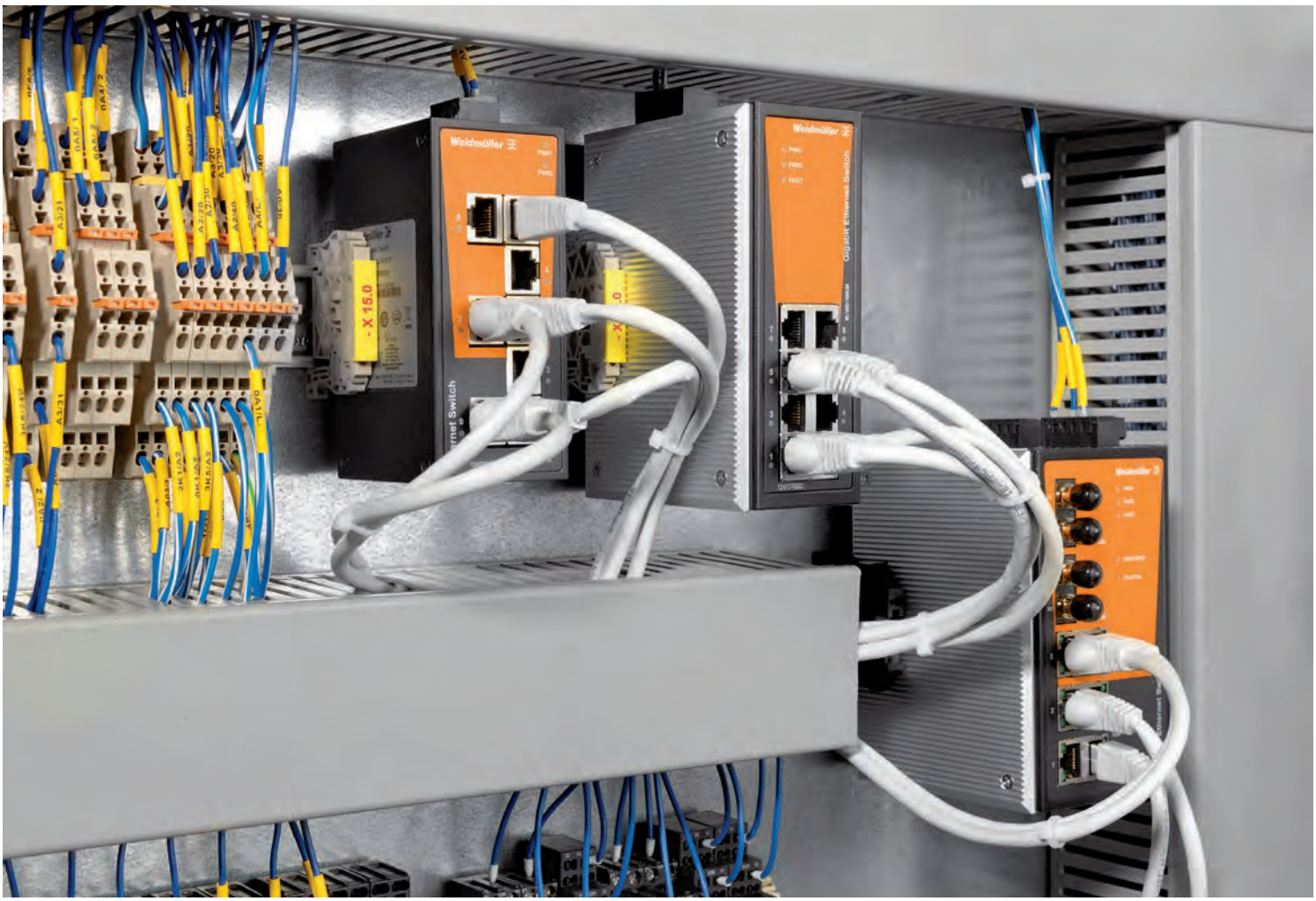
### Cable Gland Tool with Torque Function

| Type | Description | Order Number |
|---|---|---|
| SCREWTY-M12-DM | Cable gland tool for moulded M12 lines | 1900001000 |
| SCREWTY SET-DM | Bolting tool | 1920000000 |

SCREWTY SET-DM

# Industrial Ethernet

Automation and Software




## The complete solution for industrial data transmission with network devices for safe communication from the field to the control level

Weidmuller offers a complete family of Industrial Ethernet products. This includes Switches, Routers and Media Converters, each supporting both Category 6 network cable and fiber optic connections. Also available is an entire line of Category 6 cables, patch cords and all necessary connections including RJ45 terminations, DIN-rail adapters and couplers.

Weidmuller is your complete Industrial Ethernet connectivity solution!

# Industrial Ethernet Solutions

## Selecting an Ethernet Switch

Does the application require Managed or Unmanaged Ethernet Switches?

- Choose Unmanaged for simple plug and play connectivity
- Choose Managed for applications requiring network traffic monitoring or segmentation

### Features

What data speeds are required?

- Fast Ethernet 10/100Mbps
- Gigabit (10/100/1000Mbps)

Is there a need for Fiber Ports, either for distance or noise immunity purposes?

- Choose between Multi-mode (MM) or Single-mode (SM) fiber types
- Most common ones are SC / LC. Some existing applications might use ST
- SFP ports for fiber connectivity offers great flexibility and can be used as copper ports or fiber (LC) ports
- The connector types can also use cables to change from ST <–> SC

How many Ethernet Ports does the application require?

- Does it make sense to select a switch with a few additional ports for future expansion?
- Does it make sense to select a switch that supports Gigabit speeds for future bandwidth requirements?

Are there other specification considerations?

- Oil & Gas application may require Class 1/Division 2 certification
- Marine Certifications might require GL or ABS

| Key: | UNMANAGED | MANAGED |
|---|---|---|
| Configuration | Plug & Play | **Requires Setup** |
| Monitoring Protocols | No | **Yes** |
| Redundancy technologies | No | **Yes** |
| VLAN | No | **Yes** |
| Managing network traffic | No | **Yes** |
| Cost | Lower Cost | Can be High Cost |

| | UNMANAGED SWITCHES | | | MANAGED SWITCHES | |
|---|---|---|---|---|---|
| | EcoLine | BasicLine | ValueLine | AdvancedLine | ValueLine |
| | | | | | |
| 100 Mbps Copper Ports | 5, 8, 16, 24 | 5, 8, 16 | 8, 16 | 5, 8, 16, 24 | 5, 8, 16 |
| 100 Mbps Fiber Ports | 1, 2, 4 | 1, 2 | 2, 3, 4 | 1, 2, 4 | 1, 2 |
| 1 Gig Copper Ports | 2, 5, 8 | 4 | 2, 4, 8 | 2, 5, 8 | 4 |
| 1 Gig Fiber Ports | 2,4 | 1 | 2 | 2,4 | 1 |
| Power over Ethernet (PoE) | 4, 8 | 4 | | 4, 8 | 4 |
| Operating temperature | -40...+75°C | options for -40...+75°C | options for -40...+75°C | -40...+75°C | options for -40...+75°C |
| Housings | IP30 | IP30 / IP67 | IP30 | IP30 | IP30 / IP67 |
| Power requirements | 12V-54V DC, 24Vac | 12V-54V DC | 12V-54V DC | 12V-54V DC, 24Vac | 12V-54V DC |
| Certifications | c-UL-us / CE | c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link | c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link | c-UL-us / CE | c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link |

## Unmanaged Switches

### Features

- Plug and play switches in an IP30-rated rugged aluminum housing
- Compact and cost efficient design
- Fast Ethernet & Gigabit variants with 5 to 24 Ports
- Redundant dual 12/24/48 VDC, 18 to 30 VAC power inputs
- Hazardous area approvals, Class 1, Div 2 and ATEX on some Types

| # RJ45 | # FO | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|
| 5 | - | 10/100Mbps | IE-SW-EL05-5TX | 5-Port Copper, -40...+75°C | **2682130000** |
| 5 | - | 10/100Mbps | IE-SW-BL05-5TX | 5-Port Copper, -10...+60°C (C1D2 Approved) | **1240840000** |
| 5 | - | 10/100Mbps | IE-SW-BL05T-5TX | 5-Port Copper, -40...+75°C (C1D2 Approved) | **1240850000** |
| 5 | - | 10/100/1000Mbps | IE-SW-EL05-5GT | 5-Port Copper, Full Gigabit, -40...+75°C | **2682210000** |
| 8 | - | 10/100Mbps | IE-SW-EL08-8TX | 8-Port Copper, -40...+75°C | **2682140000** |
| 8 | - | 10/100Mbps | IE-SW-BL08-8TX | 8-Port Copper, -10...+60°C (C1D2 Approved) | **1240900000** |
| 8 | - | 10/100Mbps | IE-SW-BL08T-8TX | 8-Port Copper, -40...+75°C (C1D2 Approved) | **1286560000** |
| 8 | - | 10/100/1000Mbps | IE-SW-EL08-8GT-MINI | 8 Copper-Ports, Full Gigabit, -40...+75°C | **2705000000** |
| 8 | - | 10/100/1000Mbps | IE-SW-EL08-8GT | 8 Copper-Ports, Full Gigabit, -40...+75°C | **2682230000** |
| 8 | - | 10/100/1000Mbps | IE-SW-VL08-8GT | 8 Copper-Ports, Full Gigabit, 0...+60°C (C1D2 Approved) | **1241270000** |
| 6 | 2 | 10/100Mbps | IE-SW-EL08-6TX-2SC | 6 Copper-RJ45, 2 Fiber SC, -40...+75°C | **2682170000** |
| 8 | 2 | 10/100/1000Mbps | IE-SW-EL10-8GT-2GESFP | 8 Copper-RJ45, 2 Fiber SFP*, -40...+75°C | **2682240000** |
| 16 | - | 10/100Mbps | IE-SW-EL16-16TX | 16-Port Copper, -40...+75°C | **2682150000** |
| 16 | - | 10/100Mbps | IE-SW-VL16-16TX | 16 Copper-Ports, 0...+60°C (C1D2 Approved) | **1241000000** |
| 24 | - | 10/100Mbps | IE-SW-EL24-24TX | 24-Port Copper, -40...+75°C | **2682190000** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

## Managed Switches

### Features

- The equipment can be delivered with Fast Ethernet and Gigabit Ethernet ports.
- Managed switches support a variety of helpful management functions, such as fast ring redundancy, port-based VLAN, QoS, RMON, bandwidth management, port mirroring and error notification via e-mail or a relay.
- The ring redundancy can be simply set via the web based management interface or with a dip switch found on the top of the switch.
- Managed switches for the entry into a configurable network infrastructure
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL on a selection of Types

| # RJ45 | # FO | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|
| 5 | - | 10/100Mbps | IE-SW-AL05LM-5TX | Lite Managed, 5*TX, Relay, -40...+70°C, Dual Power, No QoS (IEEE 802.1p) | **2682250000** |
| 5 | - | 10/100Mbps | IE-SW-VL05M-5TX | Managed, 5 Copper-Ports, 0...+60°C (C1D2 Approved) | **1504280000** |
| 5 | - | 10/100Mbps | IE-SW-VL05MT-5TX | Managed, 5 Copper-Ports, -40...+75°C (C1D2 Approved) | **1504310000** |
| 4 | 2 | 10/100 Mbps | IE-SW-AL06LM-4TX-2SC | Lite Managed, 4*TX, 2* FX-MM-SC, Relay, -40...+70°C, 2km, No QoS (IEEE 802.1p) | **2682260000** |
| 8 | - | 10/100/1000 Mbps | IE-SW-AL08M-6TX-2GT | Full Managed, 6*TX, 2*GT, -40...+70°C, Hide Power Jack for office power supply | **2682290000** |
| 8 | - | 10/100Mbps | IE-SW-AL08M-8TX | Full Managed, 8*TX, -40...+70°C, Dual Power, No QoS (IEEE 802.1p) | **2682280000** |
| 8 | - | 10/100Mbps | IE-SW-VL08MT-8TX | Managed, 8 Copper-Ports, -40...+75°C (C1D2 Approved) | **1240940000** |
| 8 | - | 10/100/1000Mbps | IE-SW-AL08M-8GT | Full Managed, 8*GT, -40...+75°C, Relay, Dual Power, without IEEE 1588v2 Clock | **2682350000** |
| 8 | 2 | 10/100/1000Mbps | IE-SW-AL10M-8TX-2GC | Full Managed, 8*TX, 2*combo port, -40...+70°C, (10 ports in total) | **2740420000*** |
| 16 | - | 10/100Mbps | IE-SW-AL16M-16TX | Full Managed, 16*TX, Relay, -40...+70°C, Dual Power | **2682310000** |
| 16 | 2 | 10/100/1000Mbps | IE-SW-AL18M-16TX-2GC | Full Managed, 16*TX, 2*GB-Combo, Relay, -40...+70°C, Dual Power | **2682330000** |
| 24 | - | 10/100Mbps | IE-SW-AL24M-24TX | Full Managed, 24*TX, Relay, -40...+70°C, Dual Power | **2682320000** |

*** indicates new order number**

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

# Power Over Ethernet (PoE) Switches

## What is PoE?

Two Standards: poE(iEEE802.3af) and poE+(iEEE802.3at)

- "PoE" stands for Power-over-Ethernet – in which Power is transmitted over the Ethernet cable along with data lines.
- These ports can power PoE/PoE+ compliant devices, eliminating the need to run a separate power line to each end device. Applications with PoE/PoE+ switches reduce installation cost, ease of setup and ability to remotely power end devices like access points, IP/PTZ cameras, CCTV, serial servers and Ethernet I/O. Switches typically require a 24 to 57 VDC power supply.
- Managed PoE devices allow for all the functions of a regular managed switch plus the ability to control the output power of each port.
- Injectors are used to take a non-PoE input and convert it to a high power PoE+ on the output port.

| # RJ45 | PoE | PoE+ | # FO | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|---|---|
| 2 | 4 | - | - | 10/100Mbps | IE-SW-BL06-2TX-4PoE | 2 Copper-RJ45, 4 Copper-Ports PoE, Power Supply 24 VDC, 0~+60°C | **1241380000** |
| 1 | 4 | - | - | 10/100/1000Mbps | IE-SW-BL05-1GT-4GTPoE | 1 RJ45-GB, 4 RJ45-PoE GB, Power Supply 24 VDC, 0~+60°C | **1504320000** |
| 1 | 4 | - | - | 10/100/1000Mbps | IE-SW-BL05T-1GT-4GTPoE | 1 Copper-Port GB, 4 RJ45-PoE GB, Power Supply 24 VDC, -40~+75°C | **1504340000** |
| - | - | 8 | - | 10/100Mbps | IE-SW-EL8-8PoE | 8*PoE+-TX, Dual Input 12~57VDC, -40~+70°C, Relay | **2682380000** |
| - | - | 4 | 2 | 10/100Mbps | IE-SW-EL6-4PoE-2SC | 4*PoE+-TX + 2*100FX, Input 24V~57DC, -40~+70°C, Distance 2km | **2682390000** |
| - | - | 8 | - | 10/100/1000Mbps | IE-SW-EL8-8GTPoE | 8*PoE+-GT, Dual Input 12~57VDC, -40~+70°C, Relay, without Isolation | **2682400000** |
| - | - | 8 | 2 | 10/100/1000Mbps | IE-SW-EL10-8GTPoE-2GESFP | 8*PoE+-GT, 2*GB-SFP, Dual Input 12~57VDC, -40~+70°C, Relay | **2682410000** |
| - | - | 8 | - | 10/100/1000Mbps | IE-SW-AL08M-8GTPoE | Managed 8*PoE+-GT, Dual Input 12~57VDC, -40~+70°C | **2682420000** |
| 1 | - | 1 | - | 10/100/1000Mbps | IE-INJ-EL02-2GTPoE | Injector, 2*PoE+-GT, 2*GT, Input 12~57VDC, -20~+70°C | **2682440000** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

# Media Converters

## RJ45 (Copper) to Fiber Optic Converters

### Features

- 10/100 Base T(X) auto-negotiation and auto-MDI-X
- Link Fault Pass-Through (LFP)
- Power failure, port break alarm by relay output
- Redundant power inputs
- Hazardous area approvals, Class 1, Div 2/Zone 2 and ATEX

| # RJ45 | # FO | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|
| 1 | 1 | 10/100Mbps | IE-MC-VL-1TX-1SC | 1 Copper-Port FE, 1 FO-Port Multimode SC, Distance: 4 km, 0...+60°C | **1241400000** |
| 1 | 1 | 10/100Mbps | IE-MC-VL-1TX-1SC | 1 Copper-Port FE, 1 FO-Port Multimode SC, Distance: 4 km, -40...+75°C | **1286880000** |
| 1 | 1 | 10/100Mbps | IE-MC-VL-1TX-1ST | 1 Copper-Port FE, 1 FO-Port Multimode ST, Distance: 4 km, 0...+60°C | **1241410000** |
| 1 | 1 | 10/100Mbps | IE-MC-VL-1TX-1ST | 1 Copper-Port FE, 1 FO-Port Multimode ST, Distance: 4 km, -40...+75°C | **1286890000** |
| 1 | 1 | 10/100Mbps | IE-MC-VL-1TX-1SCS | 1 Copper-Port FE, 1 FO-Port Single Mode SC, Distance: 40 km, 0...+60°C | **1241420000** |
| 1 | 1 | 10/100Mbps | IE-MC-VL-1TX-1SCS | 1 Copper-Port FE, 1 FO-Port Single Mode SC, Distance: 40 km, -40...+75°C | **1286900000** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

# Industrial Serial to Ethernet Converters

### Features

- Improved surge protection for serial, LAN and supply ports
- Sturdy screw-on terminal blocks for the power supply and serial connectors
- Easy cabling with cascading Ethernet ports
- Redundant DC power supply inputs
- Warnings via relay output and e-mail
- Minimal power consumption

| # RJ45 | # Serial | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|
| 2 | 2 | 10/100Mbps | IE-CS-2TX-1RS232/485 | 2x RJ45, 1x DB9 for RS-232, 1x terminal block for RS-422/485, 0...+60°C | **1242080000** |
| 2 | 2 | 10/100Mbps | IE-CST-2TX-1RS232/485 | 2x RJ45, 1x DB9 for RS-232, 1x terminal block for RS-422/485, IP30, -40...+75°C | **1285830000** |
| 2 | 2 | 10/100Mbps | IE-CS-2TX-2RS232/485 | 2x RJ45, 2x DB9 for RS-232/422/485, IP30, 0...+60°C | **1242090000** |
| 2 | 2 | 10/100Mbps | IE-CST-2TX-2RS232/485 | 2x RJ45, 2x DB9 for RS-232/422/485, IP30, -40...+70°C | **1285840000** |
| 2 | 1 | 10/100Mbps | IE-CS-MBGW-2TX-1COM | Serial/Ethernet converter and Modbus TCP/RTU gateway, 2x RJ45, 1x DB9 male for RS-232/422/485, IP30, -40...+70°C | **2682600000** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

# Universal Industrial Gateway

### Features

- Single Solution: Multiple protocols, multiple communication ports, one box
- Configurable: Transfer data to and from any port, in any combination
- Multiple serial ports: Maximum device connectivity
- Cost effective: The functionality of multiple gateways for the price of one
- Intuitive navigation: Consistent configuration for any protocol conversions
- No software to install: Browser-based configuration
- No PLC programming: Transfer data without editing PLC code
- Context-Sensitive help: Fully searchable with images and step-by-step instructions only one click away

| # RJ45 | # Serial | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|
| 2 | 2 | 10/100Mbps | IE-UGW-2TX-2RS232/485 | EtherNet/IP, EtherNet/IP-PCCC, Modbus TCP, Modbus RTU, Modbus ASCII DF1-PCCC, DF1-CIP, PPI, S7comm, DirectNET, CCM, HostLink | **7940124932** |
| 2 | 4 | 10/100Mbps | IE-UGW-2TX-4RS232/485 | EtherNet/IP, EtherNet/IP-PCCC, Modbus TCP, Modbus RTU, Modbus ASCII, DF1-PCCC, DF1-CIP, PPI, S7comm, DirectNET, CCM, HostLink. | **7940124933** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/industrial_gateway.jsp for more variants and detailed specifications

## IoT-Gateways

### Features

- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- Interfaces to your own IT systems as well as to common cloud systems
- Data traffic reduction through preprocessing on edge via the open IoT standard Node-RED
- Secure and easy remote maintenance with Weidmuller u-link Remote Access Service
- Integration of most common communication interfaces in small design
- Open programming platform Node-RED with strong community support

| # RJ45 | # Serial | # FO | Speed | Type | Description | Order Number |
|---|---|---|---|---|---|---|
| 1 | 1 | - | 10/100Mbps | IOT-GW30 | IoT Gateway, 1xRS232/RS485, -20...+60°C | **2682620000** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

## Industrial Security Routers

### Features

- Easy integration of subnets with identical IP address ranges through 1: 1 NAT
- Secure and easy remote maintenance with Weidmuller u-link remote access service
- Future-proof network connection with static and dynamic routing
- Increased network security through stateful inspection firewall, IP/Port- forwarding and network segmentation
- Secure communication over the Internet by using IPsec and OpenVPN
- Reliable internet connection, even without on-site internet access, thanks to integrated 4G/LTE cellular modem

| # RJ45 | Speed | Type | Description | Order Number |
|---|---|---|---|---|
| 2 | 10/100Mbps | IE-SR-2TX-WL | Security/NAT/VPN Router, 1x DB9 male for RS-232/422/485, -25...+70°C | **2682590000** |
| 2 | 10/100Mbps | IE-SR-2TX-WL-4G-US-V | Security/NAT/VPN Router, with integrated multi-band modem (4G/3G), US model, 1x DB9 male for RS-232/422/485, -25...+70°C | **2682580000** |
| 4 | 10/100Mbps | IE-SR-4TX | Security/NAT/VPN/U-link Router, -30...+70°C | **2751270000** |
| 4 | 10/100Mbps | IE-SR-4TX-LTE/4G-USEMEA | Security/NAT/VPN/U-link Router, with integrated multi-band modem (4G/3G), US/EMEA-model, -30...+70°C | **2739630000** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

## Cellular WiFi Modem and Router

### Features

- 3G/4G/LTE Connectivity including Band 28
- Compact design for easy integration into machines or electrical cabinets
- SMS to oontrol router online/offline, reboot, status, IO alarm, WiFi state
- Integrated RS232 Serial Server
- Automatic fallback to 3G networks
- LAN/WAN Fallback for redundant networks
- WiFi for remote hotspot and mobile applications
- IPSec & OpenVPN Client & Server, L2TP, PPTP
- GRE, Port Forward, DMZ
- Enhanced security for both cyber and data transmission
- 2 x 10/100M LAN / WAN Ports
- Antenna diversity for WiFi and Cellular bands
- 5-40VDC input range with wide operating temperature

| # RJ45 | Speed | Type | Description | Order Number |
|---|---|---|---|---|
| 2 | 10/100Mbps | WI-MOD-645M-4 | IIoT Cellular LTE Router, / WiFi / Serial / 4DIO, SMS Monitor & Control, 2 x 10/100M RJ45, 1 x RS232 Terminal Interface, -40...+85°C | **7940109138** |

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

# u-link Remote Access Service

The Weidmuller u-link remote access service is a web-based portal application to give service PCs simple and secure access to Ethernet devices in a remote network. VPN-supported remote access through a service PC is enabled with the u-link VPN server and a Weidmuller router located in the target network. The u-link VPN server acts as a central meeting point and connects a service PC (VPN client) to a router in the target network in order to reach the Ethernet devices that are connected to the router.

## Basic License

- Valid 6 months from registration
- Each newly registered device gives 1 year license up to 50 devices
- 1 VPN connection
- All features (except China server)
- Extends automatically when a device-license is registered
- License-dependent configuration from 50 up to 500 router objects (further license Types on request)

## Extensions

- Added to Basic license
- 50/100/250/500 devices
- Valid 1 year
- Extends also the Basic license for the same time
- Upgrade possible at all time, existing License will be added to the period
- Higher device count easily possible
- 1 additional VPN (stackable)
- Usage of China Server

| Number of Accessible Devices | License Period | Type | Description | Order Number |
|---|---|---|---|---|
| 50 | 1 Year* | U-LINK-50-DEVICES-1Y | License for 50 u-link devices for 1 year | **2870090000** |
| 100 | 1 Year* | U-LINK-100-DEVICES-1Y | License for 100 u-link devices for 1 year | **2870100000** |
| 250 | 1 Year* | U-LINK-250-DEVICES-1Y | License for 250 u-link devices for 1 year | **2870110000** |
| 500 | 1 Year | U-LINK-500-DEVICES-1Y | License for 500 u-link devices for 1 year | **2870120000** |
| 1000 | 1 Year | U-LINK-1000-DEVICES-1Y | License for 1000 u-link devices for 1 year | **2924220000** |
| - | 1 Year | U-LINK-1-CONNECTION-1Y | License for 1 additional simultaneous VPN connection or easyAccess for 1 year | **2870130000** |
| - | 1 Year | U-LINK-CNSERVER-1Y | License for use of China-Server for 1 year | **2870140000** |

*VPN-connections are not included to the device licenses and required to be purchased separately.

**Note:** See https://www.weidmuller.com/en/products/automation_software/industrial_ethernet/index.jsp for more variants and detailed specifications

# Patch Cords and Data Connectors

Whether standardized or individual: our demand-oriented assembly services support you in handling even the most complex of cabling tasks. Continual modularization and decentralization are creating a growing need for standardized plug-and-produce solutions that are efficient to both assemble and operate. Choose from our extensive range of prefabricated cables or use our online configurator to create individual signal cord sets for sensors or data cord sets for Ethernet.

### Features

- **Seamless interconnection**: We guarantee the reliable transmission of power, signals and data with consistently convenient connection technology from a single source.
- **High-quality technologies**: We are always looking to the future, which is why our plug-in connectors and cables comply with the latest norms and quality standards.
- **Flexible customization**: Weidmüller offers you efficient implementation for every cabling task - from standard cabling to custom solutions.

## Patch Cables and Connectors

### CabinetLine Patch Cables

| Cable Type | Length | Color | Jacket Material | Order Number |
|---|---|---|---|---|
| Cat.6A | 0.2m | gray | LSZH | **1165940002** |
| Cat.6A | 0.5m | gray | LSZH | **1165940005** |
| Cat.6A | 1m | gray | LSZH | **1165940010** |
| Cat.6A | 1.5m | gray | LSZH | **1165940015** |
| Cat.6A | 2m | gray | LSZH | **1165940020** |
| Cat.6A | 3m | gray | LSZH | **1165940030** |
| Cat.6A | 5m | gray | LSZH | **1165940050** |
| Cat.6A | 10m | gray | LSZH | **1165940100** |
| Cat.6A | 0.5m | blue | LSZH | **1165900005** |
| Cat.6A | 1m | blue | LSZH | **1165900010** |
| Cat.6A | 2m | blue | LSZH | **1165900020** |
| Cat.6A | 0.5m | red | LSZH | **1166030005** |
| Cat.6A | 1m | red | LSZH | **1166030010** |
| Cat.6A | 2m | red | LSZH | **1166030020** |
| Cat.6A | 0.5m | magenta | LSZH | **1201270005** |
| Cat.6A | 1m | magenta | LSZH | **1201270010** |
| Cat.6A | 2m | magenta | LSZH | **1201270020** |
| Cat.5 | 0.5m | green | PVC | **1166020005** |
| Cat.5 | 1m | green | PVC | **1166020010** |
| Cat.5 | 2m | green | PVC | **1166020020** |
| Cat.5 | 0.5m | green | PUR | **1166000005** |
| Cat.5 | 1m | green | PUR | **1166000010** |
| Cat.5 | 2m | green | PUR | **1166000020** |

### CabinetLine Patch Cables - Angled

| Cable Type | Length | Angled Plug | Color | Jacket Material | Order Number |
|---|---|---|---|---|---|
| Cat.6 | 0.5m | 90° | gray | LSZH | **1248280005** |
| Cat.6 | 0.5m | 270° | gray | LSZH | **1233160005** |

### Bulk Installation Cable

| Device Description | Length | Order Number |
|---|---|---|
| **Copper** | | |
| IE-5IC4x2xAWG24/1-PUR | 100m | **8813160000** |
| IE-5IC4x2xAWG24/1-PVC | 100m | **8813150000** |
| IE-7IC4x2xAWG24/1-PUR | 100m | **8813140000** |
| IE-7IC4x2xAWG24/1-PVC | 100m | **8813130000** |

### Bulk Connection Cable

| Description | Length | Order Number |
|---|---|---|
| **Copper** | | |
| IE-5CC4x2xAWG26/7-PUR | 100m | **8813200000** |
| IE-5CC4x2xAWG26/7-PVC | 100m | **8813190000** |
| IE-7CC4x2xAWG26/7-PUR | 100m | **8813180000** |
| IE-7CC4x2xAWG26/7-PVC | 100m | **8813170000** |

### Assembled Dragline Cable

| Description | Length | Order Number |
|---|---|---|
| **Copper** | | |
| PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR | 0.5 m | **1025950005** |
| PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR | 1m | **1025950010** |
| PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR | 3m | **1025950030** |
| PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR | 5m | **1025950050** |
| PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR | 10m | **1025950100** |

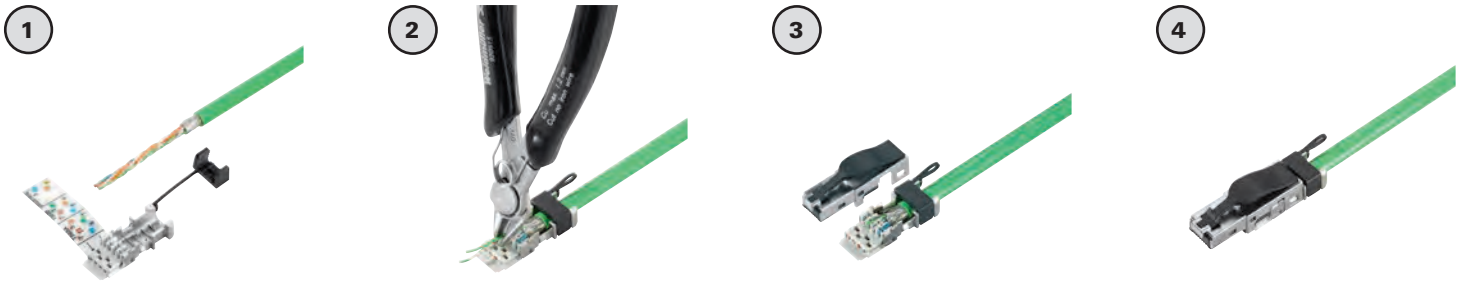
# IP20 Industrial Ethernet Connections

## RJ45 Field Installation

| Type | Connection | Order Number |
|---|---|---|
| IE-PS-RJ45-FH-BK | Copper | **1963600000** |
| IE-PS-RJ45-FH-90-A-11 | | **1518080000** |
| IE-PS-RJ45-FH-180-A-1-1-CG | | **2703440000** |

RJ45 Field Installation

## Assembly Instructions




# IP67 Industrial Ethernet Connections

## Metal Plug

| | | | Housings | Variant 1 Bayonet | | Variant 14 PushPull RJ | Variant 14 PushPull Fiber-optic | Variant 5 HDC |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | With KS | Without KS | Without KS | Without KS | Without KS |
| | Inserts | | | **1962560000** | **1962550000** | **1011560000** | **1058100000** | **1962540000** |
| | RJ45 AWG 24 crimp | | **1962720000** | 1963150000 | 1963140000 | 1012160000 | | 1963110000 |
| | RJ45 AWG 22 tool-free | TIA-A/-B/-P<br>TIA-A<br>TIA-B<br>PROFINET | **1962730000**<br>**1132010000**<br>**1132020000**<br>**1132030000** | 1963130000 | 1963120000 | 1012170000 | | 1963200000 |
| | LWL SC | Mutimode | **1067380000*** | 1963270000 | 1963260000 | | Please order separately | |
| | | Singlemode | **1067390000*** | 1963310000 | 1963300000 | | Please order separately | |
| | | POF | **1067410000*** | 1963290000 | 1963280000 | | 1191550000 | |
| | LWL LC | Mutimode | **1962780000** | 1963230000 | 1963220000 | | Please order separately | |
| | | Singlemode | **1962790000** | 1963250000 | 1963240000 | | Please order separately | |
| | Protective cap | | | 1965690000 | | 1058280000 | 1058280000 | 1968920000 |

KS = anti-kink protection

## Plastic Plug

| | | | | Housings | Variant 1 Bayonet | | Variant 4 PushPull | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | With KS | Without KS | With KS | Without KS |
| | Inserts | | | | 1012460000 | 1012440000 | 1962530000 | 1962520000 |
| | RJ45 AWG 24 crimp | | **1962720000** | | 1012560000 | 1012470000 | 1963190000 | 1963180000 |
| | RJ45 AWG 22 tool-free | TIA -A/ -B/-P | **1962730000** | | 1012570000 | 1012490000 | 1963170000 | 1963160000 |
| | LWL SC | MM | **1067380000*** | | Please order separately | | 1963370000 | 1963360000 |
| | | SM | **1067390000*** | | Please order separately | | 1963410000 | 1963400000 |
| | | POF | **1067410000*** | | Please order separately | | 1963390000 | 1963380000 |
| | LWL LC | MM | **1962780000** | | Please order separately | | 1963330000 | 1963320000 |
| | | SM | **1962790000** | | Please order separately | | 1963350000 | 1963340000 |
| | Protective cap | | | | 1965690000 | | 1963890000 | |

KS = anti-kink protection

**Note:**

Individual Components

Sets

* indicates new order number

## Service Interface FrontCom® Micro

| Type | Order Number |
|---|---|
| FrontCom Micro RJ45 coupling | **1018790000** |
| FrontCom Micro USB coupling, USB 2.0, Type A | **1018840000** |

# IP67 Industrial Ethernet Connections - continued

## Metal Flange

| | | | Housings | Variant 1 Bayonet | Variant 14 PushPull RJ | | Variant 14 PushPull fiber-optic | | Variant 5 HDC |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Standardized flange | Central flange | Standardized flange | Central flange | |
| | Inserts | | | 1963540000 | 1011540000 | 1047950000 | | | 1963530000 |
| | RJ45 coupling | | **1962840000** | 1963470000 | 1012310000 | 1058250000 | | | 1963510000 |
| | RJ45 module | TIA-A | **1962850000** | 1963480000 | 1012320000 | 1058270000 | | | 1963460000 |
| | | TIA-B | **1963840000** | Please order separately | Please order separately | Please order separately | | | Please order separately |
| | | Profinet | **1963830000** | Please order separately | 1085260000 | Please order separately | | | 1963700000 |
| | SC/SCRJ coupling | Multi Mode | **1964430000** | 1964450000 | | | 1058120000 | 1062590000 | |
| | | Single Mode | **1962870000** | 1963440000 | | | 1058140000 | 1062600000 | |
| | LC Duplex coupling | Multi Mode | **1964420000** | 1964440000 | | | 1058130000 | 1062610000 | |
| | | Single Mode | **1962880000** | 1963430000 | | | 1058150000 | 1062620000 | |
| | USB coupling | | **1019570000** | Please order separately | Please order separately | Please order separately | | | Please order separately |
| | Protective cap | | | 1965700000 | 1058310000 | 1058310000 | 1058310000 | 1058310000 | 1968930000 |

## Plastic Flange

**Individual Components**

**Sets**

| | | | Housings | Variant 1 Bayonet | Variant 4 PushPull |
|---|---|---|---|---|---|
| | Inserts | Type | Order Number | 1016960000 | 1963520000 |
| | RJ45 coupling | | **1962840000** | 1012370000 | 1963490000 |
| | RJ45 module | TIA-A | **1962850000** | 1012380000 | 1963500000 |
| | | TIA-B | **1963840000** | Please order separately | 1963730000 |
| | | Profinet | **1963830000** | Please order separately | Please order separately |
| | SC/SCRJ coupling | Multi Mode | **1964430000** | Please order separately | 1964470000 |
| | | Single Mode | **1962870000** | Please order separately | 1963420000 |
| | LC Duplex coupling | Multi Mode | **1964420000** | Please order separately | 1964460000 |
| | | Single Mode | **1962880000** | Please order separately | 1963450000 |
| | USB coupling | | **1019570000** | Please order separately | Please order separately |
| | | | **1487920000** | | |
| | Protective cap | | | 1965700000 | 1963900000 |

**M12 Adaptors and Coupler**

## Network Terminal Blocks

| Type | Connection | Order Number |
|---|---|---|
| IE-TO-RJ45-C-LP | Mini RJ45 Coupling | **2812440000** * |
| IE-TO-RJ45-C | RJ45 Coupling | **8946920000** |
| IE-TO-RJ45-FJ-A | RJ45, TIA-A Module | **8946930000** |
| IE-TO-RJ45-FJ-B | RJ45, TIA-B Module | **8946940000** |
| IE-TO-RJ45-FJ-P | RJ45, Profinet Ethernet Module | **8946950000** |
| IE-TO-USB | USB-A Coupling | **8946960000** |
| IE-TO-SCD-MM | SC Multi-mode Fiber | **8946970000** |
| IE-TO-SCD-SM | SC Single-mode Fiber | **8946980000** |
| IE-TO-LCD-MM | LC Multi-mode Fiber | **8947010000** |
| IE-TO-LCD-SM | LC Single-mode Fiber | **8947020000** |

## M12 Adaptors and Coupler

| Description | Type | Order Number |
|---|---|---|
| Adaptor, 90° | IE-M12-Adap a | **8901630000** |
| Adaptor, straight | IE-M12-Adap s | **8901620000** |
| Coupler | IE-M12-Coup | **8901640000** |

**Network Terminal Blocks**

# Industrial Wireless Solutions

Network & Automation: Industrial Wireless

## Making Distance Disappear

Our complete line of wireless, Ethernet switching and network management products delivers an infrastructure for your critical assets that is flexible, productive, safe and easily managed. Weidmuller industrial wireless products provide secure and reliable solutions for a wide range of industries and applications, as an alternative for signal and data wiring.

# Wireless Connectivity Solutions

Our products can be used in a variety of applications, including water/wastewater, oil and gas, mining, environmental, electrical utility and industrial automation.

We offer scalable solutions from basic point-to-point or meshing to large scale infrastructure deployments and covering all applications from the sensor to the control room using the Weidmuller Industrial Wireless products.

The range of products consist of Wireless I/O, Wireless Gateways, Wireless Modems and accessories with certified products including UL/CSA, FCC, CE, ATEX, IECEx.

### Applications can include:

| Water & Wastewater | Mining & Resources | Oil & Gas | Environmental | Utilities | Automation | Irrigation / Agriculture |
|---|---|---|---|---|---|---|
| • Bore Field Monitor<br>• Council W/WW<br>• In-plant monitoring<br>• Pipelines | • Survey equipment<br>• Dewatering<br>• Tailings dams | • Well head monitoring<br>• Tank level monitoring<br>• Tailings dams | • Rain fall<br>• River level<br>• Roads / Bridges | • Network management<br>• Network control | • Flow meters<br>• HVAC monitor<br>• Fire pumps<br>• Gas meters<br>• PLC connectivity | • Pivot Irrigation<br>• Pump Control<br>• Bulk water pipeline |

## Wireless MESH I/O Systems

Weidmuller's innovative configuration technology combines the reliability of 900MHz, FHSS modulation with mesh architecture to automatically detect and route the most efficient path to the destination node. This same system is also implemented into a 2.4GHz Wi-Fi system.

The high power 1W (900MHz) receiver sensitivity combined with frequency hopping and IP-based addressing provides reliable, self-healing, encrypted communications up to 115kbps.

### Features:

- IP-based addressing has the unique ability to MESH between I/O radios for automatic network healing and reliable data communications
- Unlimited number of repeater hops in one system for 900Mhz and 2.4GHz
- On board multi-I/O channels for two-way communications
- Unrivalled scalability allowing for thousands of I/O points in one system
- Automatic connection of up to 16 I/O expansion modules (WI-I/O-EX) per wireless unit
- Modbus TCP Gateway capabilities built-in
- Ethernet TCP/IP pass-thru (Access Point) for 2.4GHz Type
- USB/Ethernet and over-the-air configuration and programming
- Expandable IO with WI-I/O-EX units via Serial or Ethernet ports
- Advanced PRO-MESH capabilities on Licensed frequency Types
- Ultra long distance Licensed 400MHz network can be combined with modems to combine functions

| Frequency | Radio Power | Description | Temperature Range | Type | Order Number |
|---|---|---|---|---|---|
| 900Mhz | 1W | 900MHz Mesh I/O 8D I/O, 4AI, 2AO, 4P I/O to 4P I/O | -40°C to +70°C | WI-I/O 9-U2 MESH I/O | **7940100237*** |
| 2.4GHz | 200mW | 2.4GHz Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O to 4P I/O + Modem | -40°C to +70°C | WI-I/O-2-E-N-GBL | **7940100251*** |
| 148-174 MHz | 5W | Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O to 4P I/O | -40°C to +60°C | WI-IO-415-U2-C1 | **7940107949** |
| 148-174 MHz (EX Approved) | 5W | Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O to 4P I/O | -40°C to +60°C | WI-IO-415-U2-C1-EX | **7940107950** |
| 340-400 MHz | 10W | Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O to 4P I/O | -40°C to +60°C | WI-IO-415-U2-C3 | **7940107957** |
| 400-480 MHz | 10W | Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O to 4P I/O | -40°C to +60°C | WI-IO-415-U2-C4 | **7940107953** |
| 400-480 MHz (EX Approved) | 10W | Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O to 4P I/O | -40°C to +60°C | WI-IO-415-U2-C4-EX | **7940107954** |

*** indicates new order number**

Contact Weidmuller or visit www.weidmuller.com/wireless for more licensed options and detailed specifications.

## Wireless I/O

The Weidmuller 9-X range of wireless I/O provides a low cost alternative to expensive signal wire installations, over short or long distances. Transducer and control signals connected at one module (input signals) are transmitted to other modules where the signals are re-created as output signals or passed via a data bus to a host device such as a PLC, DCS or SCADA system.

### Features:

- Large I/O capability with I/O expansion
- Two-way communications
- Use where communications are required in both directions or for large I/O requirements. Each network can handle multiple I/O applications.
- Frequency hopping spread spectrum
- 902-928MHz 1W license-free USA/Canada
- Configurable sub-bands license-free Mexico
- Up to 95 wireless units per network
- Support up to 31 I/O expansion modules (WI-I/O-EX-I-S-XX) per wireless unit
- Multi-hop repeater functions – up to 5 intermediate units

| Type | Description | Temperature Range | Order Number |
|---|---|---|---|
| WI-I/O 9-1 | Wireless I/O Transceiver 4DI/4DO/2AI/2AO/1PI | -40°C to +70°C | **7940100228*** |

## Expansion I/O Units

The Weidmuller WI-IO-EX units are fully featured Industrial Ethernet I/O and Gateway device that extends both physical I/O for sensors and embedded industrial protocols for communications between PLC's and RTU's, which allows simple, flexible and secure connectivity across SCADA and IIoT networks. Up to 31 x WI-I/O-EX-1-S units can be connected to each Modbus master via RS485 (up to 2 km long) and options for Ethernet TCP/IP connectivity as well.

### Features:

- Multi I/O channels— monitoring and control functions
- Connected via RS485 multi-drop
- Selectable communications via Modbus protocol (both RTU and ASCII formats)
- Sensor signals connected at one module (input signals) are transmitted to another module where the signals are re-created as output signals or passed via serial to a host device such as a PLC or SCADA system
- Connect to WI-I/O 9 wireless I/O units for up to 31 serial addresses per wireless unit
- Serial client/server/multicast Modbus TCP to RTU gateway
- Connect 99 x WI-I/O-EX-1-S units as multi-drop Modbus I/O (RS485 extenders/isolators required for more than 31 units per single multi-drop length)
- RS485 multi-drop up to 2 km (1 mile) depending on installation environment

| Type | Description | Connection | Temperature Range | Order Number |
|---|---|---|---|---|
| WI-I/O-EX-1-S-11 | Wireless Expansion 16DI/16DO/4PI/8PO | RS485 | -40°C to +70°C | **7940100248*** |
| WI-I/O-EX-1-S-12 | Wireless Expansion 8DI/8DO/8AI/8PO | RS485 | -40°C to +70°C | **7940100249*** |
| WI-I/O-EX-1-S-13 | Wireless Expansion 8DO/8DI/8AO/8PO | RS485 | -40°C to +70°C | **7940100250*** |
| WI-I/O-EX-2-E-1 | Wireless Expansion 8D I/O, 4AI, 2AO, 4P I/O | Ethernet TCP/IP + RS485 | -40°C to +70°C | **7940113340*** |

* indicates new order number

# Unidirectional Transmitter/Receiver Units

The WI-I/O-9-L products are a small I/O count transmitter and receiver pair delivered pre-configured for ease of installation. The L Series products may be reconfigured into a wider I/O or gateway networks as the application needs grow. DIN-rail mounted and DC (9-30V) powered, the units can also power a loop powered device to 24 VDC, 30mA.

The Single Sensor Wireless I/O range of products is suitable for connecting to a single sensor and is capable of being powered by battery-only supplies.

## Features:

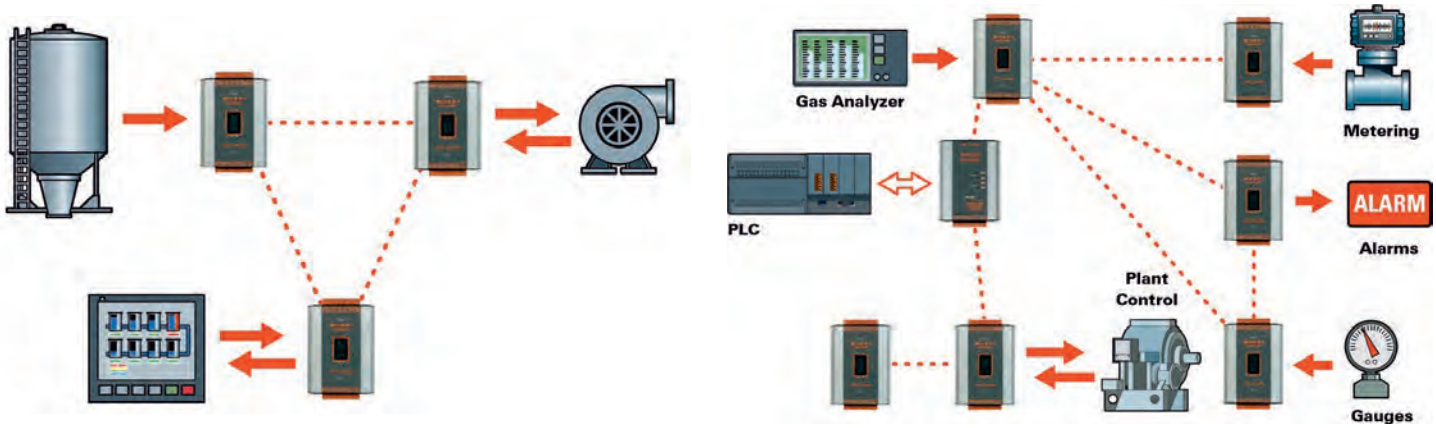
- Frequency hopping spread spectrum 902-928MHz 1W license-free USA/Canada
- Configurable sub-bands license-free in Mexico, South America, Australia/NZ, Asia

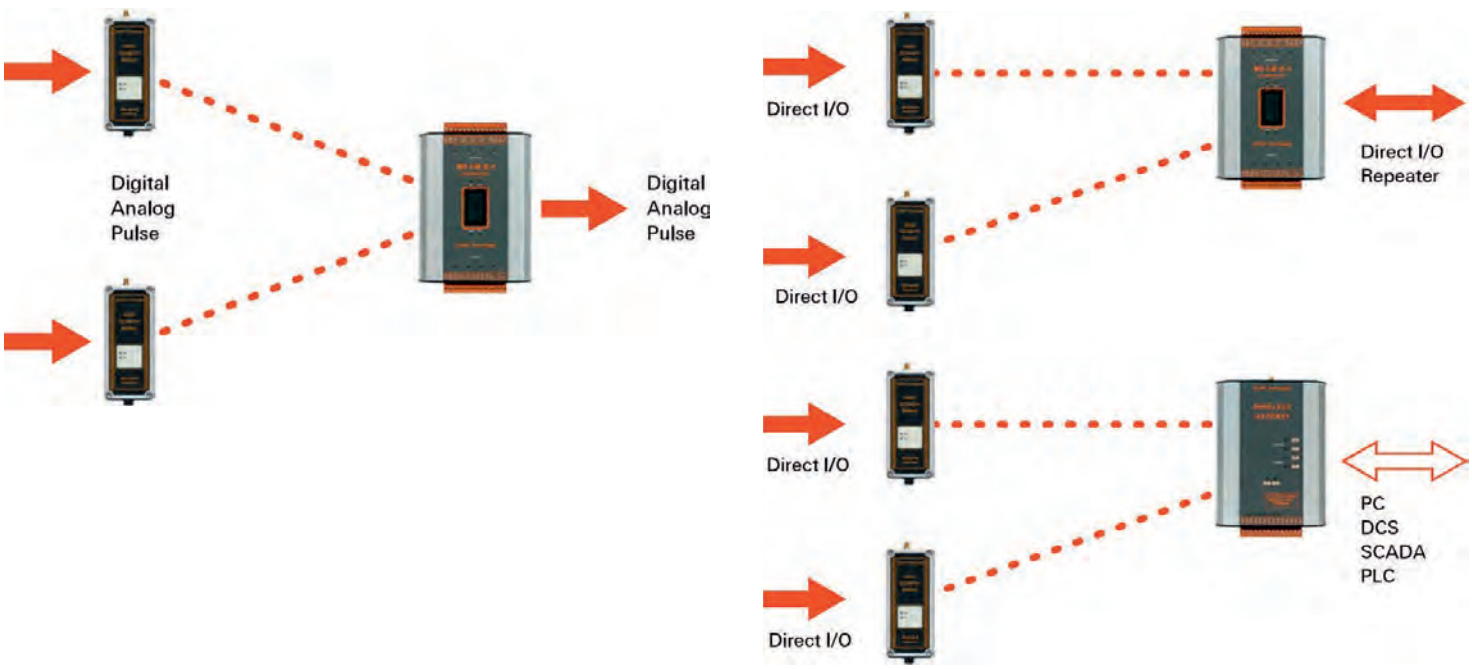
| Type | Description | Frequency | Radio Power | Temperature Range | Order Number |
|---|---|---|---|---|---|
| WI-I/O 9-L-T | Wireless I/O Transmitter 2DI/1AI/1 TC | 900Mhz | 1W | -40°C to +70°C | **7940100233*** |
| WI-I/O 9-L-R | Wireless I/O Receiver 3DO/1AO | 900Mhz | 1W | -40°C to +70°C | **7940100234*** |
| WI-I/O 9-L-P2 | Wireless I/O TX/RX Set + 0dB gain antennas | 900Mhz | 1W | -40°C to +70°C | **7940100236*** |
| WI-I/O 9-K | WX I/O 2DI/PI 1AI - TX ONLY | 900Mhz | 1W | -40°C to +70°C | **7940100232*** |

*** indicates new order number**

Contact Weidmuller or visit www.weidmuller.com/wireless for more frequency options and detailed specifications.

## Typical application for wireless IO units



# Unlicensed 900MHz Ethernet & Serial Modems

The Weidmuller Wireless Ethernet Modems are a robust, license-free wireless 802.11 compliant transceiver capable of high bandwidth communications. They are optimized for throughputs of up to 54Mbps which provides robust and secure two-way wireless communications in challenging indoor and outdoor environments typical of industrial monitoring and control applications.

The Weidmuller modems offer node to node deterministic mesh network repeatability for further range and multiple channel spacing options to increase network scalability. Integrated Modbus server capability allows seamless I/O expansion using WI-I/O-EX-1-S Expansion units.

| Type | Description | Temperature Range | Order Number |
|---|---|---|---|
| WI-MOD-945-E | DSSS 900MHz 630mW Ethernet Modem | -40°C to +70°C | **7940100239*** |
| WI-MOD-9-E | FHSS 900MHz Ethernet Modem | -40°C to +70°C | **7940100253*** |
| WI-MOD-9-D | Serial 900MHz Modem | -40°C to +70°C | **7940100252*** |

Contact Weidmuller or visit www.weidmuller.com/wireless for more licensed options and detailed specifications.

*** indicates new order number**

### Picking a 900MHz modem:

| Data | WI-MOD-9-D | WI-MOD-9-E | WI-MOD-945-E |
|---|---|---|---|
| Modem Type | Serial Data | Serial Data | Serial Data |
| Frequency | 902 - 928MHz | 902 - 928MHz | 902 - 928MHz |
| Modulation | FHSS | FHSS | FHSS |
| TX Power | 100mW - 1W | 100mW - 1W | 100mW - 1W |
| Data Rate | 200Kbps | 200Kbps | 200Kbps |
| Self Heal | No | No | No |
| Range (LOS) | 20 miles (32 km) @ 4W EIRP | 20 miles (32 km) @ 4W EIRP | 20 miles (32 km) @ 4W EIRP |
| Modbus RTU (Master/Slave) | Yes | Yes | Yes |
| Modbus TCP (Master Slave) | No | No | No |
| Online Diagnostics / Configuration | No | No | No |
| On board IO | No | No | No |
| Network Function | Modbus RTU Master / Slave | Modbus RTU Master / Slave | Modbus RTU Master / Slave |

## Transport data reliably via network infrastructure

Provide the IT systems with valuable information from the plant

- Cross-network communication at the highest security level with the security routers
- Efficient networking of a wide range of network participants with managed and unmanaged switches
- Establishment of wireless network connections for mobile end devices via Industrial WLAN

# Wi-Fi Based Ethernet & Serial Data Modems 2.4GHz / 5.8GHz

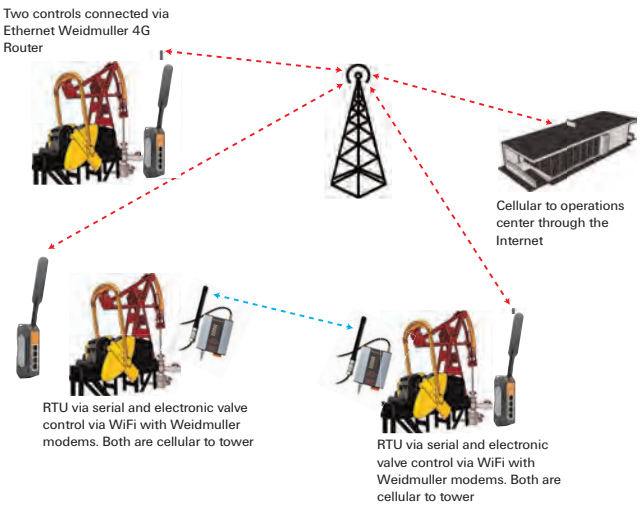
Weidmuller's industrial wireless solutions provide invaluable wireless infrastructure for your WLAN, covering entry-level wireless access points/clients to high-end multifunctional access points/stations. Our industrial wireless products ensure stable connections between wireless infrastructures between existing WLAN or Wi-Fi systems and support different frequency configurations from fixed or selectable 2.4 and 5 GHz. We offer advanced security features suitable for high-speed performance in demanding applications.

These devices are used in oil/gas, power/utility, transportation, security and automation utilize our products for their unmatched reliability and performance.

| Type | Description | Temperature Range | Wireless Standard | Frequency Range | Max. Speed | Max. Tx Power | Order Number |
|---|---|---|---|---|---|---|---|
| IE-WLT-BL-AP-CL-US | Wireless Access Point/Client | -40°C to +75°C | 802.11abgn | 2.4GHz/ 5.8GHz | 300Mbps | 400mW | **2536670000** |
| IE-WL-VL-AP-BR-CL-US | POE powered Wireless Access Point/Client | -25°C to +60°C | 802.11abgn | 2.4GHz/ 5.8GHz | 300Mbps | 400mW | **2536700000** |
| IE-WLT-VL-AP-BR-CL-US | Wireless Access Point/Bridge/Client, US-Model, IP30 | -40°C to +75°C | 802.11abgn | 2.4GHz/ 5.8GHz | 300Mbps | 400mW | **2536710000** |
| WI-I/O-2-E-N-GBL | Wireless IO + Modem + Modbus Gateway | -40°C to +70°C | 802.11bgn | 2.4GHz | 100Mbps | 200mW | **7940100251** * |
| WI-MOD-E-A1 | Long Distance Wireless Ethernet Modem | -40°C to +60°C | 802.11a | 5.8GHz | 100Mbps | 630mW | **2876620000** |
| WI-MOD-E-G1 | Long Distance Wireless Ethernet Modem | -40°C to +60°C | 802.11b/g | 2.4GHz | 100Mbps | 630mW | **2876610000** |
| IAP-420+ | Wireless Access Point/Client with POE | -10°C to +60°C | 802.11bgn | 2.4GHz | 150Mbps | 100mW | **7940099347** |

Contact Weidmuller or visit www.weidmuller.com/wireless for more options and detailed specifications.

* indicates new order number




# Licensed Frequency Ethernet & Serial Modems

## Ultra Long Distance

With up to 10W transmit power, an improved configuration software for seamless network setups and advanced cybersecurity features that meet the most stringent standards. Weidmuller's WI-MOD-415-E Ethernet modem and gateway extends communications to sensors in local, remote and difficult to reach locations.

Designed in mind with the long-range, high data speed wireless transceiver and standards-based native Ethernet protocol over the air, gives WI-MOD-415-E Series the power and flexibility to perform reliably in sprawling harsh industrial environments.

| Type | Description | Temperature Range | Frequency Range | Radio Power | Order Number |
|---|---|---|---|---|---|
| WI-MOD-415-E-C1 | Licensed Mesh Ethernet Gateway | -40°C to +60°C | 148-174 MHz | 5W | **7940107951** |
| WI-MOD-415-E-C1-EX | Licensed Mesh Ethernet Gateway | -40°C to +60°C | 148-174 MHz (EX Approved) | 5W | **7940107952** |
| WI-MOD-415-E-C3 | Licensed Mesh Ethernet Gateway | -40°C to +60°C | 340-400 MHz | 10W | **7940107959** |
| WI-MOD-415-E-C4 | Licensed Mesh Ethernet Gateway | -40°C to +60°C | 400-480 MHz | 10W | **7940107955** |
| WI-MOD-415-E-C4-EX | Licensed Mesh Ethernet Gateway | -40°C to +60°C | 400-480 MHz (EX Approved) | 10W | **7940107956** |

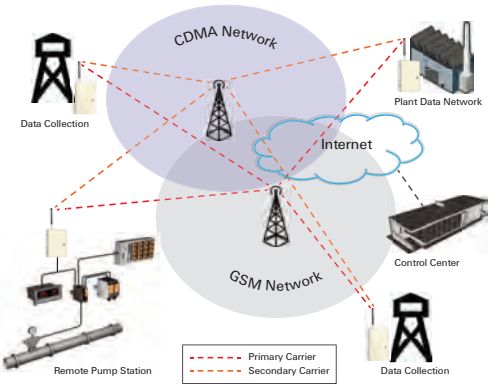
Contact Weidmuller or visit www.weidmuller.com/wireless for more options and detailed specifications.

# IIoT Capable Cellular Routers & Devices

Rapid developments and a flood of data to be used. The Industrial IoT offers unprecedented opportunities and potential with the core being the communication backbone or platform.

### Our devices include:

- Compact size industrial M2M gateway for remote access, data collection and end-devices control applications suitable for multiple IoT Cloud Platform interfaces
- Support LTE Cat. 4 with up to 150Mbps downlink and 50Mbps uplink data rates
- Support dual mini SIM card slot
- Support Modbus TCP/RTU industrial protocols
- Support MQTT/MQTT Sparkplug B/CoAP/LWM2M Cloud protocols
- Secure authentication and easy VPN setup




| Type | Description | Temperature Range | Order Number |
|---|---|---|---|
| IE-SR-4TX-LTE/4G-USEMEA | 4 Port Fast Ethernet, Security/NAT/VPN/U-link Router, integrated multi-band modem (4G/3G) | -30°C to +70°C | **2739630000** |
| IE-SR-2TX-WL | 2 Port Fast Ethernet, Security/NAT/VPN Router / WiFi | -25°C to +70°C | **2682590000** |
| IE-SR-2TX-WL-4G-US-V | 2 Port Fast Ethernet, Security/NAT/VPN Router, integrated multi-band modem (4G/3G) US-model (Verizon/AT&T Certified) | -25°C to +70°C | **2682580000** |
| WI-MOD-645M-US | IIoT Cellular LTE Router / Wi-Fi / Serial / 4DIO | -40°C to +70°C | **7940109138** |
| IMG-4312D+-D4G | Industrial IoT LTE Gateway with IEEE 802.11 b/g/n (Verizon/AT&T Certified) | -25°C to +70°C | **7940125339** |

Contact Weidmuller or visit www.weidmuller.com/wireless for more options and detailed specifications.

# Antennas and Accessories

Weidmuller completes its range of wireless products with a selection of wireless accessories for installation and tools for commissioning of wireless projects.

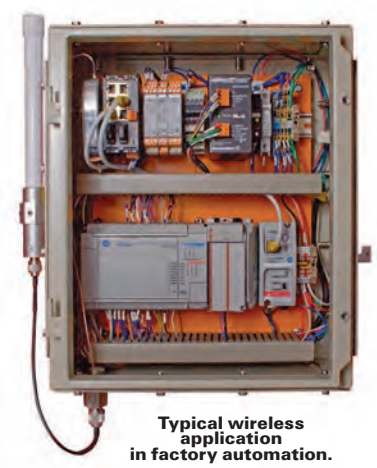
Custom ready to deploy wireless enclosures are also available fully pre-assembled and wired for deployment and programming.

At Weidmuller, we have the resources and capabilities to design and build both industrial and ATEX certified enclosures. We handle every aspect of the process.

### Features:

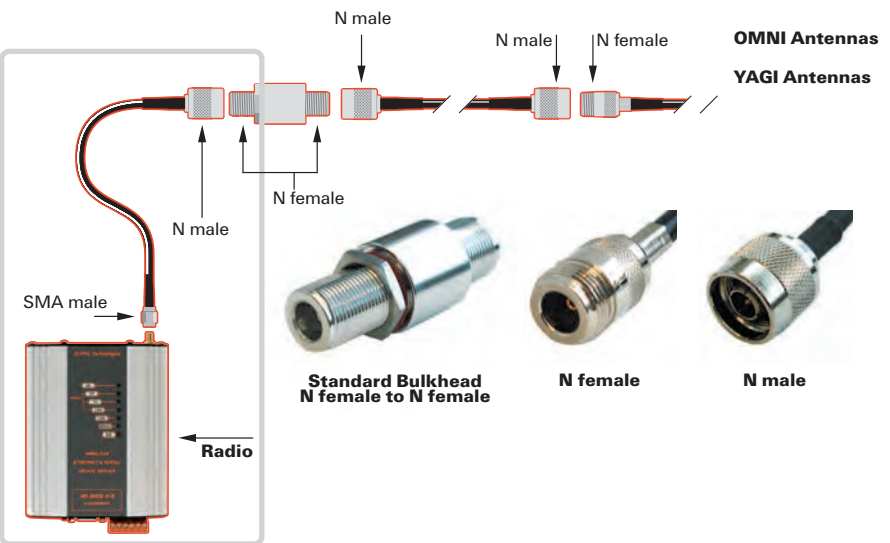
- Initial design specifications
- Assembly and installation of box elements
- Design and specification of DIN-rail modules
- Terminal wiring
- Specifying, ordering and integrating third-party products
- Application of special coatings
- Adding elements such as mounting plates and holes or knockouts for cable glands
- Providing full ATEX certification and documentation

For a complete list of accessories please visit www.weidmuller.com/wireless or contact our support line.



**Typical wireless application in factory automation.**

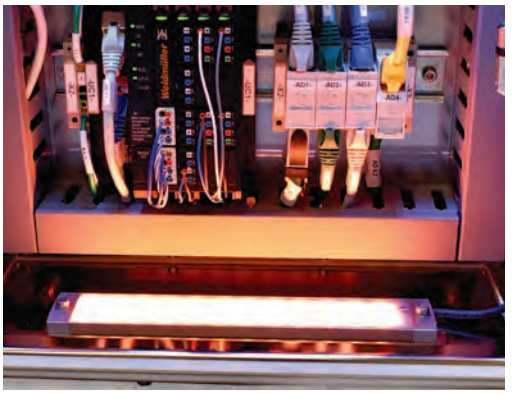
**Enclosure with Standard Bulkhead and Surge Arrestor**



# Workplace & Accessories

**Practical advantages for optimized work processes. Professional Tools, printing solutions, markers and accessories for high demands.**

# Weidmüller Industry Light (WIL)



## Optimum lighting for cabinet and field

Control cabinets are often poorly lit. Space-saving, powerful and inexpensive solutions are required. Our WIL industry light was developed in close cooperation with users to meet these requirements. The compact LED light has a bright, wide cone of light and can be mounted in the control cabinet or directly in the field. With its small dimensions, it fits perfectly into any control cabinet. The robust IP67 protected housing makes WIL particularly suitable for industrial use.

### Features

- The WIL-STANDARD: 24V DC LED lamp, only 8mm high, with very high light output (1315 lm) and long service life (greater than 60,000 h)
- Extremely robust construction, solid encapsulation and metal housing - waterproof (IP67)
- Its 6500K colour temperature (daylight) makes it suitable for a wide range of applications
- Very easy to connect using the M12 connector. Low power consumption means that a 24V, 0.5A DC power supply is sufficient for its operation
- Approvals: CE, cULus Listed, ROHS

### WIL - Standard

| Type | Description | Order Number |
|---|---|---|
| WIL-STANDARD-0.3-SCREW-SW-WHI<br>(WIL-LWXXXX-6500D024-240SXX0.3BM12GXXXX) | WIL-STANDARD (w/o magnet, w/ M12) | **2436210000** |

**WIL-STANDARD**

### WIL - Color Variants

Suitable as signal display due to its 3 light colors options

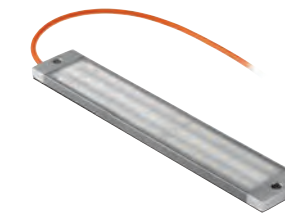
| Type | Description | Order Number |
|---|---|---|
| WIL-STANDARD-0.3-SCREW-SW-BLU<br>(WIL-LBXXXX-W450D024-240SXX0.3BM12GXXXX) | WIL with blue LEDs | **2436350000** |
| WIL-240-RYG-M12G-0.3U-S<br>(WIL-LRYGXX-XXXXD024-240SXX0.3BM12GXXXX) | WIL with multicolor | **2625240000** |
| WIL-STANDARD-0.3-SCREW-SW-RED<br>(WIL-LRXXXX-W620D024-240SXX0.3BM12GXXXX) | WIL with red LEDs | **2436340000** |
| WIL-240-RGBW-M12G-0.3U-S<br>(WIL-LRGBWX-XXXXD024-240SXX0.3BM12GXXXX) | WIL with RGBW LEDs | **2635090000** |
| WIL-240-WW57-M12G-0.3U-S<br>(WIL-LWXXXX-5700D024-240SXX0.3BM12GXXXX) | WIL with cold white LEDs | **2614400000** |

**WIL-MULTICOLOR**

### WIL - Magnet

- Same features as the standard WIL light with a height of 9.5mm
- Magnet for easy mounting in or outside of the cabinet
- Available without the M12 connector

| Type | Description | Order Number |
|---|---|---|
| WIL-STANDARD-3.0-MAG-SW-WHI<br>(WIL-LWXXXX-6500D024-240MFX3.0BXXXXXXXX) | WIL-MAGNET (w/ magnet, w/o M12) | **2527930000** |



**WIL-MAGNET**

# Printers, Tags and Markers

Workplace & Accessories

## Do you need marking systems for a whole range of different applications?

Our all-in-one solutions are intelligent and display real future viability: convenient data organization, intelligent functions and marking conforming to standards make our systems unique. Weidmüller calls this “systemized marking“ and offers more than the norm: a perfectly coordinated product range for optimized processes.

For more than 40 years, the Weidmüller name has stood for innovative and mutually compatible marking and printing systems, combined with all the necessary software and service.

Note: Marker descriptions indicate the length and width (pitch) of the marker in mm.
For example, a WS 12/5 is 12mm long and 5mm wide. The pitch typically corresponds to the width of the terminal or device.

# Printers Overview

Weidmüller printing systems are designed to produce terminal, wire and equipment markers quickly and cost-effectively. All printing systems work in conjunction with M-Print® PRO software, an intuitive Windows-based program and MultiCard markers.

## PrintJet CONNECT – The advanced inkjet printer

### Your direct connection to the optimal marking process

The PrintJet CONNECT is the consistent further development of our tried-and-tested PrintJet series. Focusing on the modern needs of industry and panel building, it combines maximum process and cost efficiency with intelligent networking and complete data consistency. For example, you can use existing data directly in the marking process – for working more efficiently and with a minimal error rate. The PrintJet CONNECT is part of the Weidmüller marking system consisting of software, markers and printers. It has an extremely durable industrial print head and has been specially optimized for fast working speed and high throughput.

### Features and Benefits:

- Perfect printing results every time
- Durable and robust markers thanks to thermal fixing
- Fast handling of large volumes
- High level of automation thanks to magazine capacity of 50 MultiCards
- Flexible connection possibilities via LAN, WIFI or USB
- Simple status monitoring on the device
- User-friendly operation thanks to intuitive touch display

Optimize your marking process with our printer software: www.weidmuller.com/m-printpro

PrintJet Connect Printer

| Type | Color | Qty. | Order Number |
|---|---|---|---|
| PrintJet CONNECT | | 1 | 2715590000 |
| M-PRINT® PRO | | 1 | 1905490000 |
| PJ CON INK K (Black ink) | ■ | 1 | 2715640000 |
| PJ CON INK C (Cyan ink) | ■ | 1 | 2715610000 |
| PJ CON INK M (Magenta ink) | ■ | 1 | 2715620000 |
| PJ CON INK Y (Yellow ink) | ■ | 1 | 2715630000 |
| PJ CON INK SET (Ink set) | ■■■■ | 1 | 2715600000 |
| PJ CON FLUID SET (Fluidset) | | 1 | 2715650000 |
| PJ CON WASTE PAD (Ink collecting tray) | | 1 | 2715660000 |
| PJ CON WIFI STICK (WIFI stick) | | 1 | 2715680000 |

## Thermal Printers

The THM MultiMark is the only printer you need for your marking tasks. The integrated cutting and perforation options allows continuous material to be cut at any length, making your work load easier. The printer edits markers and labels from the MultiMark family, as well as terminal markers, continuous materials, textile and polyester labels, shrink-fit sleeves and PLC labels. Our all-in-one solution is designed for small and medium print volumes – without compromising quality.

### Features and Benefits:

- Compact All-in-One
- Reliable and fast printing
- Optional cutting and perforation function
- Compact, innovative design
- Processing of a variety of print media, including terminal markers

THM Multimark

THM Multimark Plus

| Type | Order Number |
|---|---|
| THM MultiMark | 2599430000 |

| Type | Order Number |
|---|---|
| THM Multimark Plus | 2599440000 |

## Printer Accessories

### Print Rollers

| Type | Description | Order Number |
|---|---|---|
| MMP PLUS ROLLER MF (Phoenix) | For MultiFit Phoenix Markers | 2661600000 |
| MMP PLUS ROLLER MF-W (Wago) | For MultiFit Wago Markers | 2661620000 |
| MMP PLUS ROLLER TB | For WS/DEK Markers | 2661600000 |
| THM MMP ROLLER 15 | For Labels, Shrink-fit, WO Markers | 1357420000 |
| THM MMP ROLLER MF (Phoenix) | For MultiFit Phoenix Markers | 2518600000 |
| THM MMP ROLLER MF-W (Wago) | For MultiFit Wago Markers | 2519150000 |
| THM MMP ROLLER TB | For WS/DEK Markers | 2438500000 |

### Ink Ribbons

| Type | Description | Order Number |
|---|---|---|
| RIBBON HSS HF EL 40/300 | For ENDLESS SHRINK | 1426210000 |
| RIBBON MM 110/360 SW (BLACK) | for EL 100mm markers | 2005070000 |
| RIBBON MM 80/360 SW (BLACK) | For 6-60mm EL/TM/ SFX/WM/ESG/CC/WO | 2005080000 |
| RIBBON MM-HS 60/300 SW (BLACK) | For ORGANIZED HEAT SHRINK | 2448880000 |
| RIBBON MM-TB 25/360 SW (BLACK) | For WS/DEK Markers | 2005090000 |

# MultiCard Markers

## The Complete Range

MultiCard markers have been specifically formatted for custom printing using Weidmuller plotter or PrintJet technology. Print on blank markers yourself or let us provide you with excellent print quality and endless options (including color text and image printing) with Weidmuller's convenient custom printing services (Please note that Weidmuller requires your text and print specifications prior to processing custom print orders).

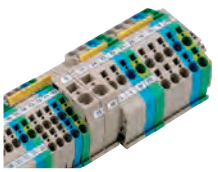
- Over 270 variants for Weidmuller and 3rd party terminals, conductors, cables and equipment
- Markers are easily separated from the frame
- Frame can be printed with project description data
- Order Numbers provided are blank/white markers, color variations are available.

## MultiCard Markers for Weidmuller Terminals

- Dekafix (DEK) for short print sequences
- WS for longer print sequences. WS "Middle" has a centered mounting foot for use with I terminals.
- "PLUS" versions of the DEK and WS markers do not have a project field for faster installation; however, a better print result is achieved with a MCP Plotter as "PLUS" markers can sag in the center of the MultiCard when printed with a PrintJet CONNECT.
- ZS can be folded upwards to access terminal cross-connections

| Type | Length x Pitch | Blank Order Number | QTY per Box | Custom Print Order Number* | QTY per Card |
|---|---|---|---|---|---|
| DEK 5/3.5 MC | 5x3.5mm | **1755270000** | 500 | **1767730000** | 100 |
| DEK 5/5 MC | 5x5mm | **1609801044** | 1000 | **1609810000** | 200 |
| DEK 5/5 PLUS MC | 5x5mm | **1854490000** | 1000 | **1854500000** | 200 |
| DEK 5/6 MC | 5x6mm | **1609820000** | 1000 | **1609830000** | 200 |
| DEK 5/6 PLUS MC | 5x6mm | **1011320000** | 1000 | **1038650000** | 200 |
| DEK 5/6.5 MC | 5x6.5mm | **1609840000** | 900 | **1609850000** | 180 |
| DEK 5/6.5 PLUS MC | 5x6.5mm | **1046340000** | 900 | **1046360000** | 180 |
| DEK 5/8 MC | 5x8mm | **1856740000** | 800 | **1856750000** | 160 |
| DEK 5/8 PLUS MC | 5x8mm | **1046350000** | 800 | **1046370000** | 160 |
| WS 12/3.5 MC | 12x3.5mm | **1778270000** | 600 | **1778280000** | 120 |
| WS 8/5 MC | 8x5mm | **1640740000** | 720 | **1640750000** | 144 |
| WS 10/5 MC | 10x5mm | **1635000000** | 720 | **1635010000** | 144 |
| WS 10/5 PLUS MC | 10x5mm | **1046380000** | 600 | **1046320000** | 120 |
| WS 10/5 Middle | 10x5mm | **1792000000** | 720 | **1792010000** | 144 |
| WS 12/5 MC | 12x5mm | **1609860000** | 720 | **1609870000** | 144 |
| WS 8/6 MC | 8x6mm | **1951880000** | 600 | **1038820000** | 120 |
| WS 10/6 MC | 10x6mm | **1828450000** | 600 | **1828460000** | 120 |
| WS 10/6 PLUS MC | 10x6mm | **1046390000** | 600 | **1046330000** | 120 |
| WS 10/6 Middle | 10x6mm | **1818400000** | 600 | **1818410000** | 120 |
| WS 12/6 MC | 12x6mm | **1609900000** | 600 | **1609910000** | 120 |
| WS 12/6.5 MC | 12x6.5mm | **1609920000** | 540 | **1609930000** | 108 |
| WS 10/8 MC | 10x8mm | **1905950000** | 420 | **1906030000** | 84 |
| WS 12/8 MC | 12x8mm | **1906000000** | 420 | **1906010000** | 84 |
| ZS 10/5 MC | 10x5mm | **1610000000** | 480 | **1610010000** | 96 |
| ZS 15/5 MC | 15x5mm | **1646630000** | 480 | **1646640000** | 96 |
| ZS 12/6 MC | 12x6mm | **1610020000** | 400 | **1610030000** | 80 |

Additional colors and clamping widths are available.



**DEK**

**WS**

**ZS**

## MultiCard WAD Markers for Terminal Assembly

The WAD series marker can be used to cover W-Series feed-through terminals, or when used with WEW 35/2 and ZEW 35/2 end brackets, to identify a group of terminals within a rail assembly.

| Type | Weidmuller Terminal Types | Length x Pitch | Blank Order Number | QTY per Box | Custom Print Order Number* | QTY per Card |
|---|---|---|---|---|---|---|
| WAD 5 MC | WDU 2.5, 4, 6 & 10 | 5x33.3mm | **1112910000** | 48 | **1112930000** | 12 |
| WAD 8 MC | WEW 35/2, ZEW 35/2 | 8x33.3mm | **1112940000** | 48 | **1112970000** | 12 |

Pre-printed yellow markers with lightning flash and blank markers in yellow are also available.
* Contact your Authorized Weidmüller Distributor to provide your print details prior to order.

**WAD 8 MC**

## MultiCard Markers for Third Party Terminals

Weidmuller's MultiFit series markers in MultiCard format are for use with other manufacturer's terminals, such as Wago, Phoenix, Wieland, Legrand, Entrelec, Telemecanique, Siemens, Festo, Cabur, Woertz and Adels RKW. Contact Weidmüller to ensure product compatibility prior to purchase. "MultiFit" marker cross reference tables are available in the MultiFit MultiCard section of our #7 Catalog: *Marking Systems-markers, printers and software*.

- For terminals with pitches (widths) of 4, 5, 6, 7.5, 8 and 10mm (marker pitch should match terminal pitch)

| Type | Terminal Manufacturer Compatibility | Print Area Length x Pitch | Blank Order Number | QTY per Box | Custom Print Order Number* | QTY per Card |
|---|---|---|---|---|---|---|
| MF 5/5 MC | Phoenix | 5x5mm | **1816250000** | 500 | **1816320000** | 100 |
| MF 5/6 MC | Phoenix | 5x6mm | **1816260000** | 500 | **1816330000** | 100 |
| MF 8/5 MC | Wago, Phoenix, Weiland, Legrand, Entrelec, Telemecanique | 8x5mm | **1677140000** | 600 | **1677150000** | 120 |
| MF 10/5 MC | | 10x5 mm | **1677160000** | 600 | **1677170000** | 120 |
| MF 12/5 MC | | 12x5mm | **1677180000** | 600 | **1677190000** | 120 |
| MF10/6 MC | | 10x6mm | **1677220000** | 600 | **1677230000** | 120 |

Additional colors, clamping widths and markers compatible with additional manufacturers are available.

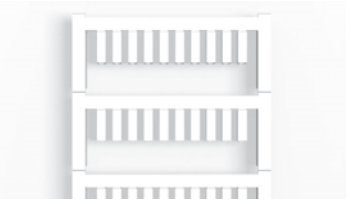
**MultiFit**

## MultiCard Markers for Wire and Cables

- SlimFix SF markers can be attached to wires that are already installed
- SlimFix SFX markers can be attached to wires that are already installed with a cable tie (max width 3.6mm)
- SlimFix Clips (SFC) are self locking, and can be attached to wires that are already installed

| Type | Wire Cross Section mm² | Length x Width | Attachment | Blank Order Number | QTY per Box | Custom Print Order Number* | QTY per Card |
|---|---|---|---|---|---|---|---|
| SF 0/12 | .25 - .50 mm² | 12x3.2mm | Self | **1919240000** | 400 | **1919250000** | 80 |
| SF 1/12 | .50 - .75 mm² | 12x3.2mm | Self | **1919390000** | 400 | **1919420000** | 80 |
| SF 2/12 | .75 - 1.5 mm² | 12x3.6mm | Self | **1919490000** | 400 | **1919500000** | 80 |
| SF 3/12 | 1.5 - 2.5 mm² | 12x4.6mm | Self | **1919540000** | 320 | **1919510000** | 64 |
| SF 4/12 | 2.5 - 4.0 mm² | 12x5.7mm | Self | **1919600000** | 160 | **1919610000** | 32 |
| SF 5/12 | 6.0 - 10.0 mm² | 12x7.4mm | Self | **1919650000** | 160 | **1919660000** | 32 |
| SF 0/21 | .25 - .50 mm² | 21x3.2mm | Self | **1918500000** | 400 | **1918470000** | 80 |
| SF 1/21 | .50 - .75 mm² | 21x3.2mm | Self | **1918630000** | 400 | **1918640000** | 80 |
| SF 2/21 | .75 - 1.5 mm² | 21x3.6mm | Self | **1918690000** | 400 | **1918650000** | 80 |
| SF 3/21 | 1.5 - 2.5 mm² | 21x4.6mm | Self | **1918910000** | 320 | **1918880000** | 64 |
| SF4/21 | 2.5 - 4.0 mm² | 21x5.7mm | Self | **1919080000** | 192 | **1919050000** | 48 |
| SF 4.5/21 | 4.0 - 6.0 mm² | 21x7.4mm | Self | **1919020000** | 96 | **1918990000** | 32 |
| SF 5/21 | 6.0 - 10.0 mm² | 21x7.4mm | Self | **1919140000** | 160 | **1919110000** | 32 |
| SFX 10/23 | from 16.0 mm² | 23x5mm | Cable Tie | **1852390000** | 160 | **1852380000** | 32 |
| SFX 14/23 | from 16.0 mm2² | 23x8.2mm | Cable Tie | **1852440000** | 160 | **1852430000** | 32 |
| SFX 9/24 | from 16.0 mm² | 23.9x9mm | Cable Tie | **1852490000** | 160 | **1852480000** | 32 |
| SFX 11/60 | from 16.0 mm2 | 11x44mm | Cable Tie | **1860120000** | 60 | **1860140000** | 12 |
| SFX 30/60 | from 16.0 mm2 | 30x45mm | Cable Tie | **1083230000** | 30 | **1083260000** | 30 |
| SFC 0/12 | 0.5 - 1.0 mm² | 12x4.1mm | Self | **1813130000** | 200 | **1813180000** | 40 |
| SFC 1/12 | .75 - 2.5 mm² | 12x4.1mm | Self | **1747320001** | 200 | **1752720000** | 40 |
| SFC 2/12 | 2.5 - 4.0 mm² | 12x5.8mm | Self | **1758320001** | 120 | **1763480000** | 24 |
| SFC 2.5/12 | 4.0 - 10.0 mm² | 12x5.8mm | Self | **1062000000** | 120 | **1062040000** | 24 |
| SFC 0/21 | 0.5 - 1.0 mm² | 21x4.1mm | Self | **1813190000** | 200 | **1813230000** | 40 |
| SFC 1/21 | .75 - 2.5 mm² | 21x4.1mm | Self | **1779080001** | 200 | **1779090000** | 40 |
| SFC 2/21 | 2.5 - 4.0 mm² | 21x5.8mm | Self | **1805810000** | 120 | **1805800000** | 24 |
| SFC 2.5/21 | 4.0 - 10.0 mm² | 21x5.8mm | Self | **1062050000** | 120 | **1062110000** | 24 |
| SFC 0/30 | .75 - 2.5 mm² | 30x4.1mm | Self | **1813240000** | 150 | **1813280000** | 30 |
| SFC 1/30 | 2.5 - 4.0 mm² | 30x4.1mm | Self | **1805760000** | 150 | **7940116172*** | 30 |
| SFC 2/30 | 4.0 - 10.0 mm² | 30x4.1mm | Self | **1805870000** | 90 | **1805860000** | 18 |

**SFX MultiCard**



**SF**

**SFX**

**SFC**

**MultiCard**

*** indicates new order number**

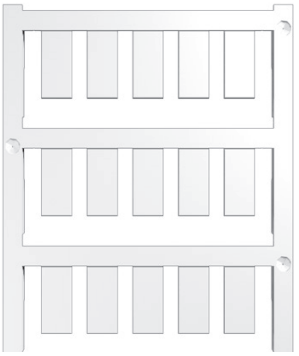
Additional colors, lengths and wire cross sections available. Contact your Authorized Weidmuller Distributor to provide your print details prior to order.

## MultiCard Markers for Devices

Device markers are for use with Weidmüller and third party manufacturer's devices such as switchgear, contactors, circuit breakers, relays, switches and transformers, etc.

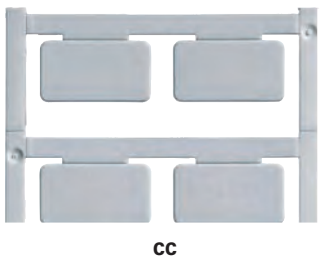
- ESG non-adhesive markers are for use on a specific device type, while the adhesive markers can be used for universal marking of any device.
- CC self-adhesive markers can be used for universal marking of any device. Large size markers can be used as an alternative to engraving.
- SM markers are available in self-adhesive or standard formats, which can be placed in a SM - H push button holder. This series is typically for control and signaling devices.

| Type | Device Compatibility | Length x Pitch | Self Adhesive | Blank Order Num | QTY per Box | Custom Print Order Num* | QTY per Card |
|---|---|---|---|---|---|---|---|
| ESG 5/10 MC | Turck/Beckhoff SAI | 5x10mm | No | **1919940000** | 400 | **1038840000** | 80 |
| ESG 6/15 MC | Riderseries SCM/SRC | 6x15mm | No | **1881280000** | 200 | **1881290000** | 40 |
| ESG 6/15 K | Unspecified | 6x15mm | Yes | **1880100000** | 200 | **1880090000** | 40 |
| ESG 6/17 K | Unspecified | 6x17mm | Yes | **1880120000** | 200 | **1880080000** | 40 |
| ESG 8/17 | Telemecanique | 8x17mm | No | **1674740000** | 200 | **1674750000** | 40 |
| ESG 9/11 K | Unspecified | 9x11mm | Yes | **1857440000** | 200 | **1857450000** | 40 |
| ESG 9/17 K | Unspecified | 9x17mm | Yes | **1674760000** | 200 | **1674770000** | 40 |
| ESG 9/20 | Siemens, Moller, WI SAI | 9x20 mm | No | **1609940000** | 200 | **1609950000** | 40 |
| ESG 10/17 | Allen Bradley, Festo MT | 10x17mm | No | **1856700000** | 200 | **1856710000** | 40 |



**ESG**

| Type | Length x Pitch | Self Adhesive | Blank White Order Num | QTY per Box | Custom Print Order Num* | QTY per Card | CC-H Holder Order Number |
|---|---|---|---|---|---|---|---|
| CC 15/17 K | 15x17mm | Yes | **1876590000** | 80 | **1876600000** | 16 | – |
| CC 15/27 K | 15x27mm | Yes | **1876640000** | 80 | **1876750000** | 16 | – |
| CC 15/49 K | 15x49mm | Yes | **1877220000** | 40 | **1877230000** | 8 | – |
| CC 15/60 K | 15x60mm | Yes | **1877310000** | 40 | **1877320000** | 8 | – |
| CC 30/60 K | 30x60mm | Yes | **1934390000** | 30 | **1934370000** | 6 | – |
| CC 85/54 K | 85x54mm | Yes | **1138430000** | 10 | **1138470000** | 2 | – |
| CC 15/17 MC | 15x17mm | No | **1876570000** | 80 | **1876620000** | 16 | **1790430000** |
| CC 15/27 MC | 15x27mm | No | **1876770000** | 80 | **1876630000** | 16 | **1790410000** |
| CC 15/49 MC | 15x49mm | No | **1877260000** | 40 | **1877200000** | 8 | **1790420000** |
| CC 15/60 MC | 15x60mm | No | **1877350000** | 40 | **1877300000** | 8 | **1878910000** |
| CC 30/60 MC | 30x60mm | No | **1934420000** | 30 | **1934410000** | 6 | **1934430000** |
| CC 85/54 MC | 85x54mm | No | **1138400000** | 10 | **1138460000** | 2 | – |



**CC**

| Type | Length x Pitch | Self Adhesive | Blank Order Num | QTY per Box | Custom Print Order Num* | QTY per Card | SM - H Holder Order Number |
|---|---|---|---|---|---|---|---|
| SM 27/8 | 8x27mm | No | **1699820000** | 80 | **1699830000** | 16 | |
| SM 27/12.5 | 12.5x27mm | No | **1699840000** | 80 | **1699850000** | 16 | **1716640000** |
| SM 27/18 | 18x27mm | No | **1699860000** | 80 | **1699870000** | 16 | **1716630000** |
| SM 27/27 | 27x27mm | No | **1773220000** | 60 | **1773240000** | 12 | **1782710000** |
| SM 22/22 K | 22x22mm | Yes | **1877570000** | 80 | **1877580000** | 16 | |
| SM 27/8 K | 8x27mm | Yes | **1812630000** | 80 | **1713690000** | 16 | |
| SM 27/12.5 K | 12.5x27mm | Yes | **1699880000** | 80 | **1699890000** | 16 | **1716640000** |
| SM 27/18 K | 18x27mm | Yes | **1707270000** | 80 | **1707280000** | 16 | **1716630000** |
| SM 27/27 K | 27x27mm | Yes | **1783000000** | 60 | **1783010000** | 12 | **1782710000** |

Additional marker colors are available. SM - H holders are available in black only and are compatible with protective film.

**SM**

**SM-H Holder**

Contact your Authorized Weidmuller Distributor to provide your print details prior to order.

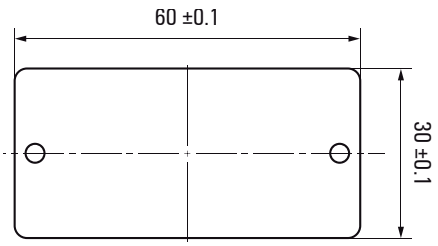
# MetalliCard Metal Markers

## A highly resistant and coordinated labeling system

With our new MetalliCard, we are now able to offer an innovative customized labeling system that allows you to print on aluminium or stainless steel tags using the innovative PrintJet CONNECT. This is an extremely versatile solution for labeling with just one printer, one software program and one type of ink. You no longer need to hire an external agency for expensive and time-consuming engraving or punch-outs.

### Type Description

| Type | Description |
|---|---|
| CC M 30/60 2x3 AL | ClipCard |
| CC-M 30/60 2x3 AL | MetalliCard |
| CC-M 30/60 2x3 AL | 30mm wide |
| CC-M 30/60 2x3 AL | 60mm high |
| CC-M 30/60 2x3 AL | 2 holes |
| CC-M 30/60 2x3 AL | 3.3mm hole diameter |
| CC-M 30/60 2x3 AL | Aluminium |
| CC-M 30/60 2x3 ST | Stainless steel |




**Example: CC-M 30/60 2 x 3**

### Technical Specifications

| | Description |
|---|---|
| Tag material | anodised aluminium (AL) or stainless steel 1.4301 (ST) |
| Temperature range | between -55°C and +130°C |
| Thick | 0.5mm |
| Primer | 100 impregnated cloths and hermetically sealed |

**Universal Transport Inlay Frame**
**Order Number 1341120000**
**Accepts 8 marker Types: CC-M 85/54, 85/27, 27/18, 30/60, 15/45, 15/60, DIA 30 and SFX-M11/60**

### Accessories

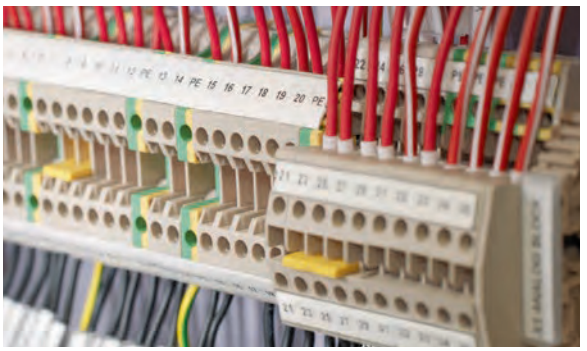
| Type | Qty | Order Number |
|---|---|---|
| PRIMER CC-M | 1 | 7940126491* |

* indicates new order number

### Tags

| Type | Size | Holes | QTY | Order Number | Adhesive Backing | Inlay Transport Frame |
|---|---|---|---|---|---|---|
| CC-M 10/30 2X2.5 AL | 10x30mm | 2.5mm (double) | 200 | 1483780000 | | 1483770000 |
| CC-M 10/30 2X2.5 ST | 10x30mm | 2.5mm (double) | 200 | 1500150000 | | 1483770000 |
| CC-M 15/45 2x3 AL | 15x45mm | 3.3mm (double) | 200 | 1327900000 | | 1341090000 |
| CC-M 15/45 2x3 ST | 15x45mm | 3.3mm (double) | 200 | 1327920000 | | 1341090000 |
| CC-M 15/45 AL | 15x45mm | - | 200 | 1327730000 | 1341170000 | 1341090000 |
| CC-M 15/45 ST | 15x45mm | - | 200 | 1327740000 | 1341170000 | 1341090000 |
| CC-M 15/60 2x3 AL | 15x60mm | 3.3mm (double) | 200 | 1327880000 | 1341150000 | 1341080000 |
| CC-M 15/60 2x3 ST | 15x60mm | 3.3mm (double) | 200 | 1327890000 | 1341150000 | 1341080000 |
| CC-M 15/60AL | 15x60mm | - | 200 | 1327700000 | 1341150000 | 1341080000 |
| CC-M 15/60ST | 15x60mm | - | 200 | 1327720000 | 1341150000 | 1341080000 |
| CC-M 18/52 2X3 AL | 18x52mm | 3.3mm (double) | 200 | 1390400000 | | 1390430000 |
| CC-M 18/52 2X3 ST | 18x52mm | 3.3mm (double) | 200 | 1505350000 | | 1390430000 |
| CC-M 27/18 2X3 AL | 27x18mm | 3.3mm (double) | 200 | 1463870000 | | 1341040000 |
| CC-M 27/18 2X3 ST | 27x18mm | 3.3mm (double) | 200 | 1463880000 | | 1341040000 |
| CC-M 27/18 AL | 27x18mm | - | 200 | 1327630000 | 1341140000 | 1341040000 |
| CC-M 27/18 ST | 27x18mm | - | 200 | 1327640000 | 1341140000 | 1341040000 |
| CC-M 27/70 2X3 AL | 27x70mm | 3.3mm (double) | 80 | 1500170000 | | 1500290000 |
| CC-M 27/70 2X3 ST | 27x70mm | 3.3mm (double) | 80 | 1500190000 | | 1500290000 |
| CC-M 30/60 2x3 AL | 30x60mm | 3.3mm (double) | 100 | 1327850000 | 1341130000 | 1341070000 |
| CC-M 30/60 2x3 ST | 30x60mm | 3.3mm (double) | 100 | 1327870000 | 1341130000 | 1341070000 |
| CC-M 30/60AL | 30x60mm | - | 100 | 1327680000 | 1341130000 | 1341070000 |
| CC-M 30/60ST | 30x60mm | - | 100 | 1327690000 | 1341130000 | 1341070000 |
| CC-M 43/70 AL | 43x70mm | - | 80 | 1500200000 | | 1500300000 |
| CC-M 43/70 ST | 43x70mm | - | 80 | 1500220000 | 1500340000 | 1500300000 |
| CC-M 58/35 2x3 AL | 58x35mm | 3.3mm (double) | 100 | 1415710000 | | 1415950000 |
| CC-M 58/35 2x3 ST | 58x35mm | 3.3mm (double) | 100 | 1415670000 | | 1415950000 |
| CC-M 58/35 AL | 58x35mm | - | 100 | 1415750000 | 1341130000 | 1415950000 |
| CC-M 58/35 ST | 58x35mm | - | 100 | 1415730000 | 1341130000 | 1415950000 |
| CC-M 70/48 2x3 AL | 70x48mm | 3.3mm (double) | 40 | 1415720000 | | 1415940000 |
| CC-M 70/48 2x3 ST | 70x48mm | 3.3mm (double) | 40 | 1415680000 | | 1415940000 |
| CC-M 70/48 AL | 70x48mm | - | 40 | 1415770000 | | 1415940000 |
| CC-M 70/48 ST | 70x48mm | - | 40 | 1415740000 | | 1415940000 |
| CC-M 85/27 2x3 AL | 85x27mm | 3.3mm (double) | 80 | 1327830000 | 1226620000 | 1341050000 |
| CC-M 85/27 2x3 ST | 85x27mm | 3.3mm (double) | 80 | 1327840000 | 1226620000 | 1341050000 |
| CC-M 85/27 AL | 85x27mm | - | 80 | 1327650000 | 1226620000 | 1341050000 |
| CC-M 85/27 ST | 85x27mm | - | 80 | 1327670000 | 1226620000 | 1341050000 |
| CC-M 85/54 4x3 AL | 85x54mm | 3.3mm (quadruple) | 40 | 1327800000 | 1175850000 | 1341030000 |
| CC-M 85/54 4x3 ST | 85x54mm | 3.3mm (quadruple) | 40 | 1327820000 | 1175850000 | 1341030000 |
| CC-M 85/54 AL | 85x54mm | - | 40 | 1327600000 | 1175850000 | 1341030000 |
| CC-M 85/54 ST | 85x54mm | - | 40 | 1327620000 | 1175850000 | 1341030000 |
| CC-M DIA 30 AL | Ø30mm | 4.2mm (single) | 200 | 1327750000 | 1341180000 | 1341100000 |
| CC-M DIA 30 ST | Ø30mm | 4.2mm (single) | 200 | 1327770000 | 1341180000 | 1341100000 |
| SFX-M 11/60 AL | 11x60mm | - | 50 | 1327780000 | | 1341110000 |
| SFX-M 11/60 ST | 11x60mm | - | 50 | 1327790000 | | 1341110000 |
| SFX-M 11/60-5 AL | 11x60mm | - | 50 | 1422560000 | | 1341110000 |
| SFX-M 11/60-5 ST | 11x60mm | - | 50 | 1422570000 | | 1341110000 |
| SFX-M 12/40-5 AL | 12x40mm | - | 50 | 1500230000 | | 1500320000 |
| SFX-M 12/40-5 ST | 12x40mm | - | 50 | 1500240000 | | 1500320000 |
| SFX-M 17/60-5 AL | 17x60mm | - | 50 | 1500250000 | | 1500330000 |
| SFX-M 17/60-5 ST | 17x60mm | - | 50 | 1500270000 | | 1500330000 |

## MultiMark Markers for Weidmuller Terminal Blocks



Our range of terminal markers enables you to accomplish virtually any labeling task, on any conductor connector. Whether this involves multi-digit labeling, ready-to-use markers with standard print or customized labeling, white or color markers or group designations at the clamping points – our comprehensive product portfolio is the easy, quick and clear answer to every marking task.

### Features and Benefits:

- Flexible connector markers – print, clip, finished
- Manufacturer-independent terminal marking
- Firm hold and durable printing
- Continuous strip marker saves installation time
- Easy mounting thanks to an innovative composite material
- Large text field enables best readability

### DEK Terminal Markers

| Type | Color | Height | Width | Qty | Order Number |
|---|---|---|---|---|---|
| DEK 5/3.5 MM WS | white | 5 mm | 3.5 mm | 1000 | **2007100000** |
| DEK 5/5 MM WS | white | 5 mm | 5 mm | 800 | **2007110000** |
| DEK 5/6 MM WS | white | 5 mm | 6 mm | 600 | **2007120000** |
| DEK 5/8 MM WS | white | 5 mm | 8 mm | 500 | **2007130000** |

### WS Terminal Markers

| Type | Color | Height | Width | Qty | Order Number |
|---|---|---|---|---|---|
| WS 12/3.5 MM WS | white | 12 mm | 3.5 mm | 1000 | **2007180000** |
| WS 12/5 MM WS | white | 12 mm | 5 mm | 800 | **2007190000** |
| WS 12/6 MM WS | white | 12 mm | 6 mm | 600 | **2007200000** |
| WS 12/6.5 MM WS | white | 12 mm | 6.5 mm | 600 | **2619930000** |
| WS 12/8 MM WS | white | 12 mm | 8 mm | 500 | **2007210000** |
| WS 8/5 MM WS | white | 8 mm | 5 mm | 800 | **2007150000** |
| WS 8/6 MM WS | white | 8 mm | 6 mm | 600 | **2007160000** |
| WS 8/8 MM WS | white | 8 mm | 8 mm | 500 | **2007170000** |
| WS-A 8/8 MM WS | white | 8 mm | 8.1 mm | 500 | **2448930000** |
| WS 8/3.5 MM WS | white | 8 mm | 3.5 mm | 1000 | **2007140000** |

## MultiMark Markers for Third-Party Terminal Blocks

### MultiFit Terminal Markers

| Type | Color | Height | Width | Qty | Order Number |
|---|---|---|---|---|---|
| MF 10/5 MM WS | white | 10 mm | 5 mm | 600 | **2519170000** |
| MF 10/6 MM WS | white | 10 mm | 6 mm | 500 | **2519180000** |
| MF 10/8 MM WS | white | 10 mm | 8 mm | 400 | **2519190000** |
| MF 5/5 MM WS | white | 5 mm | 5 mm | 1200 | **2519200000** |
| MF 5/6 MM WS | white | 5 mm | 6 mm | 1000 | **2519210000** |
| MF 8/5 MM WS | white | 8 mm | 5 mm | 600 | **2518500000** |
| MF-W 5/5 Mini MM WS | white | 5 mm | 5 mm | 800 | **2519220000** |
| MF-W 9/5 F MM WS | white | 9 mm | 5 mm | 1200 | **2519240000** |
| MF-W 9/5 MM WS | white | 9 mm | 5.2 mm | 800 | **2519230000** |
| MF-W 9/5.2 MM WS | white | 9 mm | 5 mm | 800 | **2519250000** |

# MultiMark Markers for Wire and Cables

## Heat Shrink Markers

### Space-saving: HS

The shrink sleeve's oval contour makes mounting the marker on the cable easier. This saves time while identifying wires and cables. Once the tube has been shrunk, an optimum fit is achieved and the wire is marked in a space-saving manner.

All materials are printed in a customized manner in combination with the intuitive M-Print® PRO labeling software, which offers a number of import opportunities.

Once you have set the desired marker length in the software for the HSS-...EL marker, the perforations are automatically added by the perforating appliance.

| Type | Color | Length | Conductor O.D. | Qty | Order Number |
|---|---|---|---|---|---|
| HS 0.8-2.4/25 MM W | white | 25.4 mm | 0.8 - 2.4 mm | 2000 | **2437470000** |
| HS 1.0-3.2/12 MM W | white | 12.7 mm | 1 - 3.2 mm | 4000 | **2526070000** |
| HS 1.0-3.2/25 MM W | white | 25.4 mm | 1 - 3.2 mm | 2000 | **2437510000** |
| HS 1.6-4.8/12 MM W | white | 12.7 mm | 1.6 - 4.8 mm | 4000 | **2526090000** |
| HS 1.6-4.8/12 MM Y | yellow | 12.7 mm | 1.6 - 4.8 mm | 4000 | **2526100000** |
| HS 1.6-4.8/25 MM W | white | 25.4 mm | 1.6 - 4.8 mm | 2000 | **2437550000** |
| HS 2.1-6.4/25 MM W | white | 25.4 mm | 2.1 - 6.4 mm | 2000 | **2437630000** |
| HS 2.1-6.4/50 MM W | white | 50.8 mm | 2.1 - 6.4 mm | 1000 | **2437650000** |
| HS 3.2-9.5/25 MM W | white | 25.4 mm | 3.2 - 9.5 mm | 1000 | **2437670000** |
| HS 4.2-12.7/25 MM W | white | 25.4 mm | 4.2 - 12.7 mm | 1000 | **2437710000** |
| HS 4.2-12.7/50 MM W | white | 50.8 mm | 4.2 - 12.7 mm | 500 | **2437730000** |
| HS 6.4-19.1/25 MM W | white | 25.4 mm | 6.4 - 19.1 mm | 800 | **2437750000** |
| | | | | | |
| HS-HF 1.6-3.2/25 MM W | white | 25.4 mm | 1.6 - 3.2 mm | 2000 | **2437870000** |
| HS-HF 2.4-4.8/25 MM W | white | 25.4 mm | 2.4 - 4.8 mm | 2000 | **2437990000** |
| HS-HF 2.4-4.8/50 MM W | white | 50.8 mm | 2.4 - 4.8 mm | 2000 | **2438010000** |
| HS-HF 3.2-6.4/25 MM W | white | 25.4 mm | 3.2 - 6.4 mm | 2000 | **2438040000** |
| HSS-HF 3/16 2.8-4.2/25Y | yellow | 25.4 mm | 2.8 - 4.2 mm | 8000 | **1961980000** |
| | | | | | |
| HSS 0.8-2.4 EL W13M | white | 13000 mm | 0.8 - 2.4 mm | 1 | **1489620000** |
| HSS 1.0-3.2 EL W30M | white | 30000 mm | 1 - 3.2 mm | 1 | **1505850000** |
| HSS 1.6-4.8 EL W100M | white | 100000 mm | 1.6 - 4.8 mm | 1 | **2724710000** |
| HSS 1.6-4.8 EL W13M | white | 13000 mm | 1.6 - 4.8 mm | 1 | **1489640000** |
| HSS 1.6-4.8 EL W30M | white | 30000 mm | 1.6 - 4.8 mm | 1 | **1505860000** |
| HSS 2.1-6.4 EL W13M | white | 13000 mm | 2.1 - 6.4 mm | 1 | **1489650000** |
| HSS 2.1-6.4 EL W30M | white | 30000 mm | 2.1 - 6.4 mm | 1 | **1505870000** |
| HSS 2.1-6.4 EL Y13M | yellow | 13000 mm | 2.1 - 6.4 mm | 1 | **1489560000** |
| HSS 3.2-9.5 EL W13M | white | 13000 mm | 3.2 - 9.5 mm | 1 | **1489660000** |
| HSS 3.2-9.5 EL W30M | white | 30000 mm | 3.2 - 9.5 mm | 1 | **1505880000** |
| HSS 4.2-12.7 EL W13M | white | 13000 mm | 4.2 - 12.7 mm | 1 | **1489670000** |
| HSS 6.4-19.1 EL W10M | white | 10000 mm | 6.4 - 19.1 mm | 1 | **1489680000** |
| HSS 6.4-19.1 EL Y10M | yellow | 10000 mm | 6.4 - 19.1 mm | 1 | **1489590000** |
| HSS 8.5-25.4 EL W10M | white | 10000 mm | 8.5 - 25.4 mm | 1 | **1489690000** |
| | | | | | |
| HSS-HF 1.2-2.4 EL W13M | white | 13000 mm | 1.2 - 2.4 mm | 1 | **1423330000** |
| HSS-HF 1.6-3.2 EL W13M | white | 13000 mm | 1.6 - 3.2 mm | 1 | **1423340000** |
| HSS-HF 2.4-4.8 EL W13M | white | 13000 mm | 2.4 - 4.8 mm | 1 | **1423350000** |

### Accessories

| Type | Description | Order Number |
|---|---|---|
| THM MMP CUTTER | Optional cutting knife for use with continues labels for the THM MultiMark Printer | **1331600000** |
| THM MMP PERFORATOR | Optional perforation cutter for the use of endless labels and shrink sleeves for the THM MultiMark Printer | **1416330000** |
| THM PLUS M PERFORATOR | Optional perforation cutter for the use of endless labels and shrink sleeves for the THM MultiMark PLUS Printer | **1540770000** |

# MultiMark Markers for Wire and Cables

## SFX Markers

### Highly flexible: SFX

SFX markers are the preferred choice for identifying cables if you opt for a classic cable tie solution. Cables do not by nature always run in a straight line. The material used in SFX markers addresses this circumstance with highly flexible polyurethane. The marker follows every curve of the cable and latches on without resistance. SFX markers are used for cable diameters of 7.0 mm and above.

| Type | Color | Height / Width | Labeling Field | Qty | Order Number |
|---|---|---|---|---|---|
| SFX 11/60 MM WS | White | 60 / 13 mm | 44 x 10.5 mm | 1000 | **2005340000** |
| SFX 11/60 MM Y | Yellow | 60 / 13 mm | 44 x 10.5 mm | 1000 | **2005400000** |
| SFX 9/24 MM WS | White | 26 / 15 mm | 23.5 x 9 mm | 1000 | **2005320000** |
| SFX 9/24 MM Y | Yellow | 26 / 15 mm | 23.5 x 9 mm | 1000 | **2005380000** |
| SFX-VT 9/24 MM WS | White | 26 / 15 mm | 23.5 x 9 mm | 1000 | **2621470000** |

## TM-I Markers

### Process reliability: TM-I

TM-I insert tags have a guide tab which enables them to slide easily into the transparent sleeves. Once the label is in place, the tab can be snapped off at the predetermined break point. The ready-assembled sleeves are then pushed over the wires. Your benefits: large quantities can be efficiently pre-assembled in a single step.

### Marker

| Type | Color | Height | Width | Qty | Order Number |
|---|---|---|---|---|---|
| TM-I 12 MM WS | White | 12 mm | 4mm | 2000 | **2005440000** |
| TM-I 15 MM WS | White | 15 mm | 4mm | 2000 | **2005450000** |
| TM-I 18 MM WS | White | 18 mm | 4mm | 2000 | **2005470000** |
| TM-I 20 MM WS | White | 20 mm | 4mm | 2000 | **2005490000** |
| TM-I 12 MC NE WS | White | 12 mm | 4mm | 320 | **1718411044** |
| TM-I 15 MC NE WS | White | 15 mm | 4mm | 400 | **1609981044** |
| TM-I 18 MC NE WS | White | 18 mm | 4mm | 320 | **1718431044** |
| TM-I 20 MC NE WS | White | 20 mm | 4mm | 400 | **1680411044** |

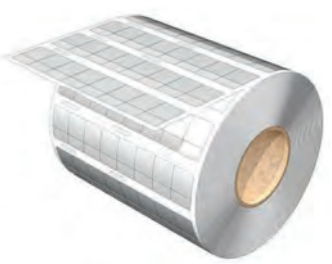
### Accessories

| Type | Description | Order Number |
|---|---|---|
| TM 201/12 V0 | TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm | **1798640000** |
| TM 201/15 V0 | TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm | **1798620000** |
| TM 201/18 V0 | TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm | **1798600000** |
| TM 201/20 V0 | TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm | **1798580000** |

## THM Write-On Markers

THM WriteOn cable markers on reels are used for labeling conductors and cables with an outside diameter of up to 36 mm. The transparent adhesive strip fixes and protects the printing on the marker surface.

| Type | Color | Height | Width | Qty | Order Number |
|---|---|---|---|---|---|
| THM WO VIN 12.7/19 WS | White | 12.7 mm | 19 mm | 10000 | **2657100000** |
| THM WO VIN 25.4/31.8 WS | White | 25.4 mm | 31.8 mm | 2000 | **2657140000** |
| THM WO VIN 25/25 WS | White | 25 mm | 25 mm | 5000 | **1253150000** |
| THM WO VIN 17.8/34 WS | White | 17.8 mm | 34 mm | 3000 | **1382930000** |
| THM WO VIN 12/18 WS | White | 12 mm | 18 mm | 10000 | **1382940000** |
| THM WO VIN 24.5/62 WS | White | 24.5 mm | 62 mm | 2000 | **1391410000** |
| THM WO 25/140 WS | White | 25 mm | 140 mm | 1050 | **1751561044** |
| THM WO 17.8/34 WS | White | 17.8 mm | 33.9 mm | 3000 | **1774380000** |
| THM WO 12/18 WS | White | 12 mm | 18 mm | 10000 | **1856640000** |
| THM WO VIN 49.5/57.1 WS | White | 49.5 mm | 57.1 mm | 1000ST | **1882900000** |
| THM WO 51/36 WS | White | 50.8 mm | 36 mm | 1000ST | **1934190000** |
| THM WO 24.5/100 WS | White | 24.5 mm | 100 mm | 2000 | **2004970000** |
| THM WO 14/22 WS | White | 14 mm | 22 mm | 5000 | **2621530000** |



# MultiMark Markers for Device Labels

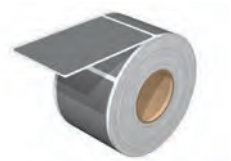
### Standard included: CC
Our systematically coordinated product range includes labels for identifying standard components, as well as all purpose and familiar formats: such as the CC 85/54 marker for creating nameplates.

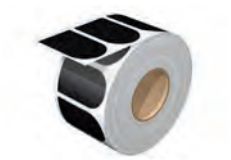
### Longevity guaranteed: ESG
The multi-coloured and formatted labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

### Prevent incorrect operation: SM
MultiMark device markers can be used for identifying equipment from multiple manufacturers. In various areas of application they guarantee the clear assignment of all components, such as control and signaling devices from different vendors.

## Device Markers

| Type | Color | Height | Width | Qty | Order Number |
|---|---|---|---|---|---|
| CC 85/54 MM WS | white | 54 mm | 85 mm | 450 | **2005270000** |
| CC 85/54 MM GR | gray | 54 mm | 85 mm | 450 | **2005290000** |
| CC 15/45 MM WS | white | 15 mm | 45 mm | 450 | **2005500000** |
| CC 15/45 MM GE | yellow | 15 mm | 45 mm | 450 | **2005520000** |
| CC 15/45 MM GR | gray | 15 mm | 45 mm | 450 | **2005540000** |
| | | | | | |
| ESG 6/15 MM WS | white | 6 mm | 15 mm | 3000 | **2619940000** |
| ESG 6/17 MM WS | white | 6 mm | 17 mm | 3000 | **2005100000** |
| ESG 6/17 MM GE | yellow | 6 mm | 17 mm | 3000 | **2005110000** |
| ESG 8/20 MM WS | white | 8 mm | 20 mm | 3000 | **2005140000** |
| ESG 8/20 MM GE | yellow | 8 mm | 20 mm | 3000 | **2005150000** |
| ESG 9/17 MM WS | white | 9 mm | 17 mm | 3000 | **2005190000** |
| ESG 9/17 MM GE | yellow | 9 mm | 17 mm | 3000 | **2005210000** |
| | | | | | |
| SM 27/18-22 MM WS | white | 47.75 mm | 27 mm | 1000 | **2005840000** |
| SM 27/18-22 MM SW | black | 47.75 mm | 27 mm | 1000 | **2005880000** |
| SM DIA 60-22 MM GE | yellow | 60 mm | 22 mm | 450 | **2006060000** |
| SM 36/18-30 MM WS | white | 56 mm | 36 mm | 1000 | **2006100000** |
| SM 36/18-30 MM SW | black | 56 mm | 36 mm | 1000 | **2006140000** |
| SM 27/12.5 MM WS | white | 12.5 mm | 27 mm | 1000 | **2006500000** |
| SM 27/12.5 MM GE | yellow | 12.5 mm | 27 mm | 1000 | **2006510000** |
| | | | | | |





## Determine Your Best Printing Solution for the Marking Application

### PrintJet CONNECT & THM MultiMark

**Best Suited For:**

- Detectable Markers
- Terminal Markers
- Device Markers

### PrintJet CONNECT

**Best Suited For:**

- MultiCard Markers
- MetalliCard Markers

### THM MultiMark & THM MultiMark Plus

**Best Suited For:**

- MultiMark Markers
- Heat Shrink Markers
- Write-On Markers

# Detectable Markers

### Features and Benefits:

- Detectable by metal and X-ray detectors
- Visually recognizable by blue color
- Corrosion resistant metallic filler
- Clear and resistant print image
- Different versions available for a wide variety of marking requirements

## Detectable marking solutions for the MultiCard and the MultiMark family.

Thanks to a metallic filling material, our detectable markers are identifiable by metal and X-ray detectors. This minimizes the risk of contamination during the food production process. Markers maximize safety thanks to properties such as corrosion resistance and ageing resistance against UV radiation and heat. We regularly check and confirm these properties in our accredited laboratory.

The food and beverage industry places the highest demands on quality, hygiene and safety. With our detectable marking solutions, we support our customers in ensuring that the high standards required within the HACCP concept are met.

## Detectable SFX Markers - MultiCard

| Material | Color | Fire class acc. to UL 94 | Temperature range |
|---|---|---|---|
| PA 6.6 | Blue | HB | -40°C...100°C |

| Type | Width | Height | Qty | Order number |
|---|---|---|---|---|
| SFX-DT 9/24 MC NE BL | 15 mm | 24 mm | 160 | **2602720000** |
| SFX-DT 11/60 MC NE BL | 11 mm | 60 mm | 60 | **2602730000** |
| SFX-DT 10/60 S MC NE BL | 10 mm | 60 mm | 50 | **2602740000** |

## Detectable SFX Markers - MultiMark

| Type | Material | Tempature range | Fire class acc. to UL 94 | Order number |
|---|---|---|---|---|
| RIBBON MMHS 60/300 SW | Polyethylene | -30...65°C | HB | **2448880000** |

| Type | Color | Height/Width | Labeling Field | Qty | Order number |
|---|---|---|---|---|---|
| SFX-DT 9/24 MM BL | Blue | 26/15 mm | 23.9 x 9 mm | 1000 | **2621490000** |
| SFX-DT 11/60 MM BL | Blue | 60/13 mm | 10.5 x 44 mm | 1000 | **2621480000** |

## Detectable cable ties

| Type | Width | Length | Qty | Order number |
|---|---|---|---|---|
| CB-DT 100/2.5 BL | 2.5 mm | 100 mm | 100 | **2602750000** |
| CB-DT 140/3.5 BL | 3.5 mm | 140 mm | 100 | **2602760000** |
| CB-DT 200/4.5 BL | 4.5 mm | 200 mm | 100 | **2602770000** |
| CB-DT 280/4.5 BL | 4.5 mm | 280 mm | 100 | **2602780000** |
| CB-DT 380/4.5 BL | 4.5 mm | 380 mm | 100 | **2602790000** |
| CB-DT 360/7.5 BL | 7.5 mm | 360 mm | 100 | **2602800000** |

| Material | Color | Fire class acc. to UL 94 | Temperature range |
|---|---|---|---|
| PA 6.6 | Blue | HB | -25°C....100°C |

# Hand Tools & Automatic Machines

Marking and Tools

## Professional Hand Tools

Precision tools from Weidmuller are in use worldwide. Weidmuller takes this responsibility seriously and offers comprehensive services. Tools should still function perfectly even after many years of constant use. Weidmuller therefore offers its customers the "Tool Certification" service. This technical testing routine guarantees the proper functioning and quality of your tools. We feature a full range of heavy-duty tools designed for industrial use. Our wire and cable cutters, wire strippers and crimpers are capable of handling wires ranging in size from 26 AWG to 750 MCM.

## Automatic Machines

The rationalization of crimping processes calls for more and more automation of the individual steps. "Optimization of installation times" is what the markets of the future will be demanding of their strategic partners. Automatic machines that permit rational processing of conductor materials represent an approach geared to future needs. Versatility and functionality are decisive factors for the customer. With our comprehensive line of automated machinery, Weidmuller provides professional and efficient solutions for cable preparation and processing.

## Cutting Tools

Weidmuller's cutting portfolio includes wire and cable cutters from small wire gauges through large, stranded industrial cable. The specially designed cutters on our KT tools result in smooth and straight cuts every time, without deforming the conductor.

- Blade shape produces a smooth, straight cut without distortion of the conductor
- Ergonomic design reduces fatigue and requires less force to cut
- NEW – The KT 8, KT 12, KT 14 and KT 22 now feature 1000 VAC/ 1500 VDC protection

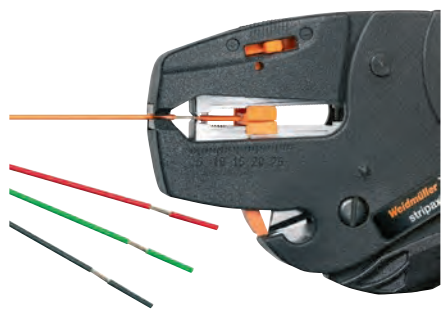
| Type | | KT 8 | KT 12 | KT 14 | KT 22 | KT 45R |
|---|---|---|---|---|---|---|
| | | | | | | |
| **Order Number** | | **9002650000** | **9002660000** | **1157820000** | **1157830000** | **9202040000** |
| Round/Flat Cable | | Round | Round | Flat | Round | Round |
| Wire Max. | Solid mm²/AWG | 16/6 | 16/6 | 16/6 | 25/3 | – |
| | Stranded mm²/AWG | 16/6 | 25/3 | 35/2 | 50/1 | 300/600 Kcmil |
| | Flexible mm²/AWG | 16/6 | 35/2 | 70/2/0 | 95/3/0 | 400/800 Kcmil |

Cutting Tools for larger gauge wire are available.

## Stripping Tools

The Stripping tool product line from Weidmuller includes strippers and slicers that can be adjusted precisely to the corresponding insulation and conductor cross-section for a variety of cables and wire. The tools can process many different cable types, including: PVC and Teflon insulated wires, fiber-optic cables, data cables, PVC insulated ribbon cables and more.

- Blades precisely cut the insulation without damage to the conductor
- Designed to produce a consistent stripping result



### Stripax®, Stripax® 16 and Stripax® ULtimate

The fourth generation Stripax® is a cutter and stripper with three variations for handling flexible or solid wires with various insulation types and sizes within wire gauge range 28...6 AWG.

- Selectable two-stage partial stripping keeps insulation intact on wire ends until ready to crimp
- Strips wire up to 1"
- Cuts wire up to 10 AWG
- No splaying of individual conductors

| Type | Stripax® | Stripax® 16 | Stripax® ULtimate | Stripax® ULtimate XL |
|---|---|---|---|---|
| | | | | |
| **Order Number** | **9005000000** | **9005610000** | **1468880000** | **1512780000** |
| Wire Gauge (AWG) | 28...8 | 10...6 | 24...10 | 14...8 |
| Wire Type | Round, Multi-conductors and Flat Ribbon Cables | Round | Round | Round |
| Insulation Type | PVC and MTW 300 | PVC, MTW 300 and MTW 600 | Halogen free and other tough insulation, such as SIS, THHN and Teflon | PUR (SAI Cables), Halogen free and other tough insulation, such as SIS, THHN and Teflon |
| Spare Cutter Blade | 9054560000 | 9054560000 | 9054560000 | 9054560000 |
| Spare Stripping Blade | 1119030000 | 1119040000 | 1471390000 | 1512790000 |

# Stripping Tools - continued

## Cutter-Stripper AWG 22...10/AWG 30...20

Stripping of THHN, MTW, PVC and other wire insulations
- Precision ground stripping holes
- Smooth cutting of wires
- Strong gripping nose
- Easy-to-read markings
- 22 degree angle for optimum ergonomics
- Self-opening

CS 22-10

CS 30-20

| Type | CS 22-10 | CS 30-20 |
|---|---|---|
| **Order Number** | **1338810000** | **1338800000** |
| Conductor mm²/AWG | 22...10 | 30...20 |
| Length | 180 | 180 |
| Weight | 150 | 150 |

## CST

Sheathing strippers for coaxial cables
- Fast changeover to other cable and connector types thanks to adjustable and interchangeable screw holder

CST

| Type | CST |
|---|---|
| **Order Number** | **9030500000*** |
| Cable type | Coaxial & round data cables |
| Conductor diameter | 2.5...8 mm |

* indicates new order number

## AM 16

Strips or makes circumferential, lengthwise and spiral incisions in the insulation of round, PVC insulated cables
- Especially suitable for stripping cables in the cable duct
- Insulation can be stripped from any point along the cable

AM 16

| Type | AM 16 |
|---|---|
| **Order Number** | **9204190000** |
| Conductor mm²/AWG | 6...17/10...5 |
| Depth mm/inches | 0.8...2.5/ 1/32...3/32 |
| Spare Blade | 9204260000 |

## AM 25/AM 35

Strips or makes circumferential, lengthwise and spiral incisions in the insulation of round, PVC insulated cables
- Precise cutting depth
- Insulation can be stripped from any point along the cable

AM 25 / AM 35

| Type | AM 25 | AM 35 |
|---|---|---|
| **Order Number** | **9001540000** | **9001080000** |
| Conductor mm²/AWG | 6....25/10...4 | 25...36/4...2 |
| Depth mm/inches | up to 4.5/ 3/16 | up to 4.5/ 3/16 |
| Spare Blades (2) | 9001530000 | 9001530000 |

# Crimping Tools

Weidmuller's crimper portfolio includes a full line of high quality crimpers, featuring different crimp profiles for wire gauges 26 through 1 AWG. In addition to crimpers used to process wire end ferrules, we offer crimp tools for stamped and turned contacts, coaxial, ring lug and flat blade connectors, fiber optic connections and more.

- Low hand force required to exert 1000 lbs pressure at crimp die
- Patented "omega" spring optimizes crimp process
- Ratchet for precise crimping

After stripping, appropriate contacts or wire end ferrules can be crimped to the cable end. Crimping produces a reliable connection between conductor and contact, and has more or less completely replaced soldering.

Crimping describes the production of a uniform, non-detachable connection between conductor and connecting element. This should be achieved exclusively by the use of a high-quality precision tool. The result is a safe, reliable connection in both electrical and mechanical terms.

Weidmuller offers a wide range of mechanical crimping tools. An integral ratchet mechanism with disengage option guarantees optimum processing quality. Crimp connections produced with Weidmuller tools comply with international standards and specifications. The DIN EN 60352-2 standard recommends that tools and contacts should come from the same manufacturer, since this is the only way to ensure consistently high quality. Otherwise, it is the user who is responsible for the quality. Weidmuller tools are designed to fit with Weidmuller contacts and thus are in full compliance with the DIN EN standard.

## Standards and approvals

Weidmüller wire end ferrules

+

+ Weidmüller crimping tools

=

= Approval

## Crimp Tools for Specific Contact Types

For crimping special connectors, such as cable lugs, turned contacts for HDC and coax.

| Type | CTI 6 | HTN 21 | CTX CM 1.6/2.5 |
|---|---|---|---|
| | | | |
| **Order Number** | **9006120000** | **9014610000** | **9018490000** |
| Conductor mm²/AWG | 0.5....6/20...10 | 0.5...6/20...10 | 0.14....4.0/ |
| Conductor Type | Insulated Flat Blade/Ring Lug | Cable Lug with Crimp Claw | HD/HE/ConCept M10/M5 |
| Additional crimpers are available for other contact types not listed above. | | | |

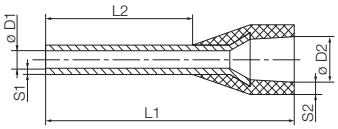
## Stripax® Plus 2.5

Cuts and strips conductors with soft PVC insulation and crimps strips of linked wire ferrules (3 in 1 Tool)*
- Three functions: cutting, stripping, crimping
- Easy adjustment to the right ferrule cross-section
- Conductor stop to adjust strip lengths from 1/4" to 1/2"

Stripax® Plus 2.5

| Type | Stripax® Plus 2.5 |
|---|---|
| **Order Number** | **9020000000** |
| Crimping mm²/AWG | .05...2.5/20...14 |
| Stripping mm²/AWG | .05...2.5/20...14 |
| Cutting mm²/AWG | up to 2.5/ 14 |
| Spare Cutter Blade | 9050340000 |

**Tool is compatible with Ferrule Strips Only, which are placed in the handle of the tool.*




- Polypropylene conical entry funnel
- Heat-resistant up to 105°C
- The entry funnel can also be manufactured from a non-flammable material on request

For conductors from 0.5 to 2.5 mm² (AWG 20-14)
Material E-Cu, electro-galvanized
Dimensional tolerance acc. to DIN 46228 Part 4

**Weidmuller color code**

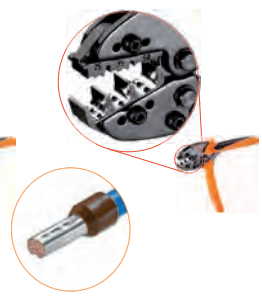
**Strips of linked wire-end ferrules**

| Type | ø mm² | AWG | L1 | L2 | D1 | D2 | S1 | S2 | Stripping length | Color | Qty. | Order Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H0.5/14 | 0.5 | 20 | 14.0 | 8.0 | 1.0 | 2.6 | 0.15 | 0.25 | 10.0 | orange | 500 | **9004270000** |
| H0.75/14 | 0.75 | 18 | 14.0 | 8.0 | 1.2 | 2.8 | 0.15 | 0.25 | 10.0 | white | 500 | **9004290000** |
| H1.0/14 | 1 | 17 | 14.0 | 8.0 | 1.4 | 3.0 | 0.15 | 0.25 | 10.0 | yellow | 500 | **9004320000** |
| H1.5/14 | 1.5 | 16 | 14.0 | 8.0 | 1.7 | 3.2 | 0.15 | 0.25 | 10.0 | red | 500 | **9004340000** |
| H2.5/14D | 2.5 | 14 | 14.0 | 8.0 | 2.5 | 4.0 | 0.15 | 0.25 | 11.0 | blue | 500 | **9004360000** |

## PZ Crimp Tools

For crimping collared and un-collared wire end ferrules in various profiles for rated conductor cross-sections.

| Type | PZ 1.5 | PZ 4 | PZ 6/5 | PZ 6 Roto L |
|---|---|---|---|---|
| | | | | |
| **Order Number** | **9005990000** | **9012500000** | **9011460000** | **1444050000** |
| Conductor mm²/AWG | 0.14....1.5/24...16 | 0.5...4/20...12 | 0.25....6/24...10 | 0.14...6/26...10 |
| Special Features | Small/Light | 1 Crimp Die | 5 Crimp Stations | Rotating Die |

| Type | PZ 10 HEX | PZ 10 SQR | PZ 16 | PZ ZH 16 | PZ 50 |
|---|---|---|---|---|---|
| | | | | |  |
| **Order Number** | **1445070000** | **1445080000** | **9012600000** | **9013600000** | **9006450000** |
| Conductor mm²/AWG | 0.14...10/26...8 | 0.14...10/26...8 | 6...16/10...6 | 6...16/10...6 | 25....50/3...1 |
| Special Features | Hexagon Crimp | Square Crimp | 3 Crimp Stations | For Twin Wire | 3 Crimp Stations |

## Crimp Tool Sets

Crimping sets combine Weidmuller tools for cutting, stripping and crimping wire end ferrules for a given wire range in a handy case. Sets include assorted ferrules as indicated below.

### Crimp Set PZ 4

Crimp Set for cutting, stripping and crimping of wire end ferrules up to 4.0 mm²/12 AWG:
- Stripping tool Stripax® for conductors with PVC Insulation from 0.08...6.0 mm²/ 18...10 AWG
- Crimping tool PZ 4 for wire end ferrules from 0.5...4.0 mm²/20...12 AWG
- Wire end ferrules with plastic collar

| Description | Type of wire end ferrule (cond. cross-sec/length) | Qty | Tools | Qty | Order Number |
|---|---|---|---|---|---|
| Crimp Set PZ 4 | H0.5/14 | 500 | Stripax® | 1 | 9025800000 |
| | H0.75/14 | 500 | PZ 4 | 1 | |
| | H1.0/14 | 1000 | | | |
| | H1.5/14 | 1000 | | | |
| | H2.5/14 | 500 | | | |
| | H4.0/17 | 250 | | | |

Crimp Set PZ 4

### Crimp Set PZ 6 Roto L

Crimp set for cutting, stripping and crimping of wire end ferrules up to 6.0 mm²/10 AWG, consisting of:
- Stripping tool Stripax® for conductors with PVC Insulation from 0.08...6.0 mm²/ 18...10 AWG
- Crimping tool PZ 6 Roto L for wire end ferrules from 0.14...6.0 mm²/26...10 AWG
- Wire end ferrules with plastic collar

| Description | Type of wire end ferrule (cond. cross-sec/length) | Qty | Tools | Qty | Order Number |
|---|---|---|---|---|---|
| Crimp Set PZ 6 Roto L | H0.5/14 | 500 | Stripax® | 1 | 9028680000 |
| | H0.75/14 | 500 | PZ 6 Roto L | 1 | |
| | H1.0/14 | 500 | | | |
| | H1.5/14 | 500 | | | |
| | H2.5/15D | 500 | | | |
| | H4.0/18 | 250 | | | |
| | H6.0/20 | 250 | | | |

Crimp Set PZ 6 Roto L

## Portable Bag 1

Workshops and factories prefer well-organized sets of tools. That results in minimal searching and preparation, and that saves money. Weidmuller implements such knowledge when combining products, characterized by good benefits for users and good functionality. Weidmuller Crimp Sets for cutting, stripping and crimping wire end ferrules provide users with practical tool kits.

### Assembly

| Description | Type | Qty |
|---|---|---|
| Toolbag, empty | P BAG | 1 |
| Wire stripper unit | STRIPAX ULTIMATE | 1 |
| Crimping tool | PZ 10 HEX | 1 |
| Hexagon socket wrench set | SKS 2,0-8,0 | 1 |
| VDE-insulated combination pliers, 160 mm long | KBZ 160 | 1 |
| VDE-insulated screwdriver with slotted blade 0.6x3.5x100 | SDIS 0.6X3.5X100 | 1 |

| Technical data | | |
|---|---|---|
| Depth / Width / Height | 170 / 260 / 50 mm | |
| Weight | 1,443 g | 3.18 lbs |

**Ordering data**

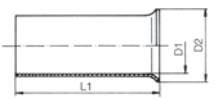
| Type | Qty. | Order Number |
|---|---|---|
| P BAG SET 1 | 1 | 2561430000 |

P BAG SET1

# Wire End Ferrules

Weidmuller wire end ferrules are made to DIN standards and ensure the long-term quality of electrical connections. Uninsulated wire end ferrules are available in mulitpacks. Insulated ferrules are available in multipacks, on strips for use with the Stripax® Plus or in reels for use with automated equipment.

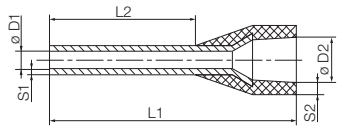
**Wire end ferrules without plastic collars**



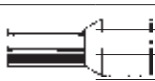

| | Nominal cross-section (mm²) | AWG | Dimensions (mm) | | | Stripping length | | | Order Number |
|---|---|---|---|---|---|---|---|---|---|
| | | | L1 | D1 | D2 | mm | Qty. | Type | |
| 0.25 | 0.25 | 24 | 5 | 0.7 | 1.65 | 5 | 1000 | H 0.25/5 | 9018910000 |
| 0.5 | 0.5 | 20 | 6 | 1 | 2.1 | 6 | 1000 | H 0.5/6 | 0282600000 |
| | 0.5 | 20 | 10 | 1 | 2.1 | 10 | 1000 | H 0.5/10 | 9004050000 |
| 0.75 | 0.75 | 18 | 6 | 1.2 | 2.3 | 6 | 1000 | H 0.75/6 | 0282700000 |
| | 0.75 | 18 | 10 | 1.2 | 2.3 | 10 | 1000 | H 0.75/10 | 0542500000 |
| 1 | 1 | 17 | 6 | 1.4 | 2.5 | 6 | 1000 | H 1/6 | 0372600000 |
| | 1 | 17 | 10 | 1.4 | 2.5 | 10 | 1000 | H 1/10 | 0282800000 |
| 1.5 | 1.5 | 16 | 7 | 1.7 | 2.8 | 7 | 1000 | H 1.5/7 | 0372700000 |
| | 1.5 | 16 | 10 | 1.7 | 2.8 | 10 | 1000 | H 1.5/10 | 0186500000 |
| | 1.5 | 16 | 12 | 1.7 | 2.8 | 12 | 1000 | H 1.5/12 | 9004060000 |
| | 1.5 | 16 | 18 | 1.7 | 2.8 | 18 | 1000 | H 1.5/18 | 9004070000 |
| 2.5 | 2.5 | 14 | 7 | 2.2 | 3.4 | 7 | 1000 | H 2.5/7 | 0373000000 |
| | 2.5 | 14 | 10 | 2.2 | 3.4 | 10 | 1000 | H 2.5/10 | 9004080000 |
| | 2.5 | 14 | 12 | 2.2 | 3.4 | 12 | 1000 | H 2.5/12 | 0186100000 |
| | 2.5 | 14 | 18 | 2.2 | 3.4 | 18 | 1000 | H 2.5/18 | 9004090000 |
| 4 | 4 | 12 | 9 | 2.8 | 4 | 9 | 500 | H 4/9 | 0373100000 |
| | 4 | 12 | 12 | 2.8 | 4 | 12 | 1000 | H 4/12 | 0244100000 |
| | 4 | 12 | 15 | 2.8 | 4 | 15 | 500 | H 4/15 | 9004100000 |
| | 4 | 12 | 18 | 2.8 | 4 | 18 | 1000 | H 4/18 | 9004110000 |
| 6 | 6 | 10 | 10 | 3.5 | 4.7 | 10 | 500 | H 6/10 | 9004120000 |
| | 6 | 10 | 12 | 3.5 | 4.7 | 12 | 500 | H 6/12 | 0191900000 |
| | 6 | 10 | 15 | 3.5 | 4.7 | 15 | 500 | H 6/15 | 0124700000 |
| | 6 | 10 | 18 | 3.5 | 4.7 | 18 | 500 | H 6/18 | 9004130000 |
| 10 | 10 | 7 | 12 | 4.5 | 5.8 | 12 | 500 | H 10/12 | 0282900000 |
| | 10 | 7 | 15 | 4.5 | 5.8 | 15 | 500 | H 10/15 | 0124800000 |
| | 10 | 7 | 18 | 4.5 | 5.8 | 18 | 500 | H 10/18 | 0379300000 |
| 16 | 16 | 6 | 12 | 5.8 | 7.5 | 12 | 500 | H 16/12 | 0492500000 |
| | 16 | 6 | 15 | 5.8 | 7.5 | 15 | 500 | H 16/15 | 0124300000 |
| | 16 | 6 | 18 | 5.8 | 7.5 | 18 | 100 | H 16/18 | 0375200000 |
| | 16 | 6 | 25 | 5.8 | 7.5 | 25 | 100 | H 16/25 | 9004150000 |
| | 16 | 6 | 32 | 5.8 | 7.5 | 32 | 100 | H 16/32 | 9004160000 |
| 25 | 25 | 3 | 15 | 7.3 | 9.5 | 15 | 250 | H 25/15 | 0124400000 |
| | 25 | 3 | 18 | 7.3 | 9.5 | 18 | 100 | H 25/18 | 0375300000 |
| | 25 | 3 | 25 | 7.3 | 9.5 | 25 | 100 | H 25/25 | 9004170000 |
| | 25 | 3 | 32 | 7.3 | 9.5 | 32 | 100 | H 25/32 | 9004180000 |
| 35 | 35 | 2 | 18 | 8.3 | 11 | 18 | 100 | H 35/18 | 0368900000 |
| | 35 | 2 | 25 | 8.3 | 11 | 25 | 100 | H 35/25 | 9004190000 |
| | 35 | 2 | 30 | 8.3 | 11 | 30 | 500 | H 35/30 S | 9451000000 |
| | 35 | 2 | 32 | 8.3 | 11 | 32 | 100 | H 35/32 | 9004200000 |
| 50... | 50 | 1 | 18 | 10.3 | 13 | 18 | 100 | H 50/18 | 9004210000 |
| | 50 | 1 | 25 | 10.3 | 13 | 25 | 100 | H 50/25 | 9025880000 |
| | 50 | 1 | 32 | 10.3 | 13 | 32 | 100 | H 50/32 | 9004220000 |
| | 70 | 2/0 | 25 | 12.5 | 15 | 25 | 50 | H 70/25 | 9004230000 |
| | 70 | 2/0 | 32 | 12.5 | 15 | 32 | 50 | H 70/32 | 9004240000 |
| | 95 | 3/0 | 25 | 14.5 | 17 | 25 | 50 | H 95/25 | 9004250000 |
| | 95 | 3/0 | 32 | 14.5 | 17 | 32 | 50 | H 95/32 | 9004260000 |
| | 120 | 4/0 | 32 | 16.5 | 19 | 32 | | H 120/32 | 9036240000 |
| | 150 | 300 MCM | 32 | 18.5 | 21 | 32 | 50 | H 150/32 | 9036250000 |
| | 185 | 350 MCM | 32 | 20 | 23.5 | 32 | 50 | H 185/32 | 9036260000 |

Insulated wire ferrules in additional color schemes and a variety of other types of connectors are available.

## Wire end ferrules with plastic collars



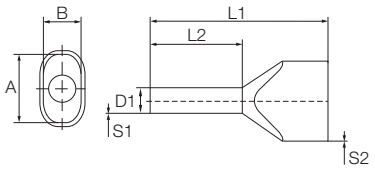

Weidmuller standard

| | | Nominal cross-section | Dimensions (mm) | | | | | Stripping length | | | | Strip pack | Ferrules in strip form | Ferrules on reels |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ($mm^2$) | AWG | L1 | L2 | D1 | D2 | mm | Qty. | Type | Color | Order Number | Order Number | Order Number | Order Number |
| 0.14 | | 0.14 | 26 | 10 | 6 | 0.6 | 1.5 | 8 | 500 | H 0.14/10 | gray | | 9005180000 [1] | | |
| | | 0.14 | 26 | 12 | 8 | 0.6 | 1.5 | 10 | 500 | H 0.14/12 | gray | | 9028240000 [1] | | |
| 0.25 | | 0.25 | 24 | 10 | 6 | 0.8 | 1.8 | 8 | 500 | H 0.25/10 | light blue | 9025740000 | 9026050000 | | |
| | | 0.25 | 24 | 12 | 8 | 0.8 | 1.8 | 10 | 500 | H 0.25/12 | light blue | 9025760000 | 9025780000 | | |
| 0.34 | | 0.34 | 22 | 10 | 6 | 0.8 | 2 | 8 | 500 | H 0.34/10 | turquoise | 9025750000 | 9026030000 | | |
| | | 0.34 | 22 | 12 | 8 | 0.8 | 2 | 10 | 500 | H 0.34/12 | turquoise | 9025770000 | 9025790000 | | |
| | | 0.34 | 22 | 12 | 8 | 0.8 | 2 | 10 | 5000 | H 0.34/12 | turquoise | | | 9004390000 [2] | |
| 0.5 | | 0.5 | 20 | 10 | 6 | 1 | 2.6 | 8 | 500 | H 0.5/10 | orange | | 9028260000 | | |
| | | 0.5 | 20 | 12 | 6 | 1 | 2.6 | 8 | 500 | H 0.5/12 | orange | 0409500000 | | | |
| | | 0.5 | 20 | 14 | 8 | 1 | 2.6 | 10 | 500 | H 0.5/14 | orange | 0690700000 | 9026060000 | 9004270000 [2] | |
| | | 0.5 | 20 | 14 | 8 | 1 | 2.6 | 10 | 5000 | H 0.5/14 | orange | | | | 9005810000 [2] |
| | | 0.5 | 20 | 16 | 10 | 1 | 2.6 | 12 | 500 | H 0.5/16 | orange | 9025870000 | 9028270000 | | |
| 0.75 | | 0.75 | 18 | 12 | 6 | 1.2 | 2.8 | 8 | 500 | H 0.75/12 | white | 0409600000 | 9028280000 | | |
| | | 0.75 | 18 | 14 | 8 | 1.2 | 2.8 | 10 | 500 | H 0.75/14 | white | 0462900000 | 9026070000 | 9004290000 [2] | |
| | | 0.75 | 18 | 14 | 8 | 1.2 | 2.8 | 10 | 5000 | H 0.75/14 | white | | | | 9005820000 [2] |
| | | 0.75 | 18 | 16 | 10 | 1.2 | 2.8 | 12 | 500 | H 0.75/16 | white | 9025860000 | 9028290000 | | |
| | | 0.75 | 18 | 18 | 12 | 1.2 | 2.8 | 14 | 500 | H 0.75/18 | white | 9025910000 | 9028300000 | | |
| 1 | | 1 | 17 | 12 | 6 | 1.4 | 3 | 8 | 500 | H 1/12 | yellow | 0409700000 | 9028310000 | | |
| | | 1 | 17 | 14 | 8 | 1.4 | 3 | 10 | 500 | H 1/14 | yellow | 0463000000 | 9026080000 | 9004320000 [2] | |
| | | 1 | 17 | 14 | 8 | 1.4 | 3 | 11 | 5000 | H 1/14 | yellow | | | | 9005830000 [2] |
| | | 1 | 17 | 16 | 10 | 1.4 | 3 | 12 | 500 | H 1/16 | yellow | 9025950000 | 9028320000 | | |
| | | 1 | 17 | 18 | 12 | 1.4 | 3 | 15 | 500 | H 1/18 | yellow | 9025930000 | 9028340000 | | |
| 1.5 | | 1.5 | 16 | 14 | 8 | 1.7 | 3.5 | 10 | 500 | H 1.5/14 | red | 0463100000 | 9026090000 | | |
| | | 1.5 | 16 | 14 | 8 | 1.7 | 3.2 | 10 | 5000 | H 1.5/14 | red | | | | 9005840000 [2] |
| | | 1.5 | 16 | 14 | 8 | 1.7 | 3.2 | 10 | 500 | H 1.5/14 | red | | | 9004340000 [2] | |
| | | 1.5 | 16 | 16 | 10 | 1.7 | 3.5 | 12 | 500 | H 1.5/16 | red | 0635100000 | 9028350000 | | |
| | | 1.5 | 16 | 18 | 12 | 1.7 | 3.5 | 15 | 500 | | | | | | |
| | | 1.5 | 16 | 24 | 18 | 1.7 | 3.5 | 20 | 500 | H 1.5/24 | red | 0565600000 | | | |
| 2.5 | | 2.5 | 14 | 14 | 8 | 2.2 | 4.2 | 10 | 500 | H 2.5/14 D | blue | 9019160000 | 9026100000 | | |
| | | 2.5 | 14 | 14 | 8 | 2.2 | 4 | 11 | 3000 | H 2.5/14 D | blue | | | | 9005850000 [2] |
| | | 2.5 | 14 | 14 | 8 | 2.2 | 4 | 11 | 500 | H 2.5/14 D | blue | | | 9004360000 [2] | |
| | | 2.5 | 14 | 18 | 12 | 2.2 | 4.2 | 14 | 500 | H 2.5/18 D | blue | 9019170000 | | | |
| | | 2.5 | 14 | 24 | 18 | 2.2 | 4.2 | 20 | 500 | H 2.5/24 D | blue | 9019180000 | | | |
| 4 | | 4 | 12 | 17 | 10 | 2.8 | 4.8 | 12 | 500 | H 4/17 D | gray | 9019190000 | 9026010000 * | | |
| | | 4 | 12 | 20 | 12 | 2.8 | 4.8 | 14 | 500 | H 4/20 D | gray | 9019200000 | | | |
| | | 4 | 12 | 26 | 18 | 2.8 | 4.8 | 20 | 500 | H 4/26 D | gray | 9019210000 | | | |
| 6 | | 6 | 10 | 20 | 12 | 3.5 | 6.3 | 14 | 100 | H 6/20 | black | 0533500000 | | | |
| | | 6 | 10 | 26 | 18 | 3.5 | 6.3 | 20 | 100 | H 6/26 | black | 0565700000 | | | |
| 10 | | 10 | 7 | 22 | 12 | 4.5 | 7.6 | 15 | 100 | H 10/22 | ivory | 0534200000 | | | |
| | | 10 | 7 | 28 | 18 | 4.5 | 7.6 | 21 | 100 | H 10/28 | ivory | 0565800000 | | | |
| 16 | | 16 | 6 | 24 | 12 | 5.8 | 8.8 | 15 | 100 | H 16/24 | green | 0565900000 | | | |
| | | 16 | 6 | 28 | 18 | 5.8 | 8.8 | 21 | 100 | H 16/28 | green | 0566000000 | | | |
| 25 |  | 25 | 3 | 30 | 16 | 7.3 | 11.2 | 18 | 50 | H 25/30 | brown | 0317000000 | | | |
| | | 25 | 3 | 36 | 22 | 7.3 | 11.2 | 24 | 50 | H 25/36 | brown | 0317100000 | | | |
| 35 | | 35 | 2 | 30 | 16 | 8.3 | 12.7 | 19 | 50 | H 35/30 | beige | 0317200000 [1] | | | |
| | | 35 | 2 | 30 | 18 | 8.3 | 12.7 | 21 | 50 | | | | | | |
| | | 35 | 2 | 39 | 25 | 8.3 | 12.7 | 28 | 50 | H 35/39 | beige | 0317300000 [1] | | | |
| 50... | | 50 | 1 | 36 | 20 | 10.3 | 15 | 26 | 50 | H 50/36 | olive | 0444200000 | | | |
| | | 50 | 1 | 40 | 25 | 10.3 | 15 | 31 | 50 | | | | | | |
| | | 70 | 2/0 | 37 | 20 | 12.7 | 16 | 26 | 25 | H 70/40 | yellow | 9028200000 [3] | | | |
| | | 95 | 3/0 | 44 | 25 | 14.7 | 18 | 31 | 25 | H 95/44 | red | 9028210000 [3] | | | |
| | | 120 | 4/0 | 50 | 30 | 16.5 | 21 | 36 | 25 | H 120/50 | blue | 9028220000 [3] | | | |
| | | 150 | 300 MCM | 54 | 32 | 18.5 | 23.5 | 38 | 25 | H 150/54 | yellow | 9028230000 [3] | | | |

1–Not UL 2–UL Pending 3–Not CSA

Strip pack 5 x 100 ferrules *5 x 50 ferrules

# Wire End Ferrules continued




**Twin-wire end ferrules with plastic collar**

**Packed loose**

| Type | ø mm² | AWG | L1 | L2 | D1 | S1 | S2 | A | B | Stripping Length | Color | QTY | Order Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H0.5/14 | 0.50 | 20 | 14.0 | 8.0 | 1.4 | 0.15 | 0.3 | 5.0 | 3.0 | 11.0 | orange | 500 | **9037200000** |
| H0.5/16 | 0.50 | 20 | 16.0 | 10.0 | 1.4 | 0.15 | 0.3 | 5.0 | 3.0 | 13.0 | orange | 500 | **9037210000** |
| H0.5/18 | 0.50 | 20 | 18.0 | 12.0 | 1.4 | 0.15 | 0.3 | 5.0 | 3.0 | 15.0 | orange | 500 | **9037220000** |
| H0.75/14 | 0.75 | 18 | 14.0 | 8.0 | 1.7 | 0.15 | 0.3 | 5.5 | 3.0 | 11.0 | white | 500 | **9037230000** |
| H0.75/16 | 0.75 | 18 | 16.0 | 10.0 | 1.7 | 0.15 | 0.3 | 5.5 | 3.0 | 13.0 | white | 500 | **9037240000** |
| H0.75/19S | 0.75 | 18 | 19.0 | 12.0 | 1.4 | 0.15 | 0.3 | 5.5 | 3.0 | 21.0 | white | 500 | **9202820000** |
| H0.75/24 | 0.75 | 18 | 24.0 | 18.0 | 1.7 | 0.15 | 0.3 | 5.5 | 3.0 | 21.0 | white | 500 | **9037250000** |
| H1.0/15 | 1.00 | 17 | 15.0 | 8.0 | 2.0 | 0.15 | 0.3 | 5.8 | 3.2 | 12.0 | yellow | 500 | **9037260000** |
| H1.0/15S | 1.00 | 17 | 16.0 | 8.0 | 2.2 | 0.15 | 0.3 | 5.8 | 3.2 | 12.0 | yellow | 500 | **9018690000** |
| H1.0/19 | 1.00 | 17 | 19.0 | 12.0 | 2.0 | 0.15 | 0.3 | 5.8 | 3.2 | 16.0 | yellow | 500 | **9037270000** |
| H1.0/25 | 1.00 | 17 | 25.0 | 18.0 | 2.0 | 0.15 | 0.3 | 5.8 | 3.2 | 22.0 | yellow | 500 | **9037280000** |
| H1.5/16 | 1.50 | 16 | 16.0 | 8.2 | 2.2 | 0.15 | 0.3 | 6.5 | 3.6 | 11.0 | red | 500 | **9037290000** |
| H1.5/20 | 1.50 | 16 | 20.0 | 12.0 | 2.2 | 0.15 | 0.3 | 6.5 | 3.6 | 15.0 | red | 500 | **9037300000** |
| H1.5/26 | 1.50 | 16 | 26.0 | 18.0 | 2.2 | 0.15 | 0.3 | 6.5 | 3.6 | 21.0 | red | 100 | **9037310000** |
| H2.5/19D | 2.50 | 14 | 19.0 | 10.0 | 2.8 | 0.15 | 0.4 | 8.0 | 4.5 | 13.0 | blue | 500 | **9037500000** |
| H2.5/21D | 2.50 | 14 | 21.0 | 12.0 | 2.8 | 0.15 | 0.4 | 8.0 | 4.5 | 15.0 | blue | 100 | **9037510000** |
| H2.5/27D | 2.50 | 14 | 27.0 | 18.0 | 2.8 | 0.15 | 0.4 | 8.0 | 4.5 | 21.0 | blue | 100 | **9037520000** |
| H4.0/22D | 4.00 | 12 | 22.0 | 12.0 | 3.5 | 0.2 | 0.5 | 9.0 | 5.2 | 15.0 | gray | 100 | **9037530000** |
| H4.0/28D | 4.00 | 12 | 28.0 | 18.0 | 3.5 | 0.2 | 0.5 | 9.0 | 5.2 | 21.0 | gray | 100 | **9037540000** |
| H6.0/23 | 6.00 | 10 | 23.0 | 12.0 | 4.5 | 0.2 | 0.5 | 11.4 | 6.2 | 20.0 | black | 100 | **9037320000** |
| H6.0/29 | 6.00 | 10 | 29.0 | 18.0 | 4.5 | 0.2 | 0.5 | 11.4 | 6.2 | 24.0 | black | 100 | **9037330000** |
| H10.0/24S | 10.00 | 7 | 24.0 | 12.0 | 6.5 | 0.2 | 0.5 | 13.4 | 7.6 | 17.0 | ivory | 100 | **9018860000** |
| H10.0/24 | 10.00 | 7 | 24.0 | 12.0 | 5.8 | 0.2 | 0.5 | 13.4 | 7.6 | 17.0 | ivory | 100 | **9037340000*** |
| H10.0/30 | 10.00 | 7 | 30.0 | 18.0 | 5.8 | 0.2 | 0.5 | 13.4 | 7.6 | 23.0 | ivory | 100 | **9037350000** |
| H10.0/30S | 10.00 | 7 | 30.0 | 18.0 | 6.5 | 0.2 | 0.5 | 13.4 | 7.6 | 23.0 | ivory | 100 | **9018870000** |
| H16.0/29 | 16.00 | 6 | 29.0 | 16.0 | 8.3 | 0.3 | 0.6 | 17.2 | 9.5 | 20.0 | green | 50 | **9037360000** |
| H16.0/38 | 16.00 | 6 | 38.0 | 25.0 | 8.3 | 0.3 | 0.6 | 17.2 | 9.5 | 29.0 | green | 50 | **9037370000** |

*** indicates new order number**

## Approvals

### CSA - US Certification

The following wire-end ferrules are cCSAus certified:

- Unconnected wire-end ferrules (bulk-packaged) from ~ AWG 26 – 1 (0.14 mm² to 50 mm²)
- Twin wire-end ferrules from ~ AWG 20 – 6 (2 x 0.5 mm² to 2 x 16 mm²)
- Special wire-end ferrules for use in small wire chambers and with AWG wires
- Tape-packaged wire-end ferrules on reels or on strips, from ~ AWG 20 – 14 (0.5 mm² to 2.5 mm²)
- Un-insulated wire-end ferrules from ~ AWG 26 – 1 (0.14 mm² to 50 mm²)

### UL Certification

The following ferrules have a cULus certification in conjunction with our hand tools and automatic machines:

- Unconnected wire-end ferrules (bulk packaged) from ~ AWG 26 – 1 (0.14 mm² to 50 mm²)

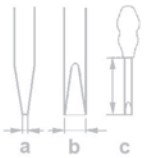
# Screwdrivers

Weidmuller offers a variety of manual screwdrivers, available with blades and tip profiles in standard commercial shapes and sizes. Screwdrivers are available with protective VDE insulation molded on the screwdriver blade for use in live applications up to 1500 volts DC and 1000 volts AC - meets NFPA arc flash code (NFPA 70E 2009).

- Tips from hardened high-alloy steel
- Ergonomic design and soft finish grip material reduce fatigue

## SDIS / SDS

VDI insulated and standard uninsulated slotted screwdrivers.



SDIS

SDS

| | | VDE Insulated | | | | Standard | | | |
|---|---|---|---|---|---|---|---|---|---|
| a (mm/inch) | b (mm/inch) | Type | Order Number | Blade | c (mm/inch) | Type | Order Number | Blade | c (mm/inch) |
| 0.4/.016 | 2/.079 | SDIS 0.4x2.0x60 | **2749780000** | A | 60/2.36 | SDS 0.4x2.0x60 | **2749260000** | A | 60/2.36 |
| 0.4/.016 | 2.5/.098 | SDIS 0.4x2.5x75 | **2749790000** | A | 75/2.95 | SDS 0.4x2.5x75 | **2749320000** | A | 75/2.95 |
| 0.5/.02 | 3.0/0.118 | SDIS 0.5x3.0x100 | **2749800000** | A | 100/3.93 | SDS 0.5x3.0x80 | **2749330000** | A | 80/3.15 |
| 0.6/.023 | 3.5/0.138 | SDIS 0.6x3.5x100 | **2749810000** | A | 100/3.93 | SDS 0.6x3.5x100 | **2749340000** | A | 100/3.93 |
| 0.8/.031 | 4/.157 | SDIS 0.8x4.0x100 | **2749820000** | A | 100/3.93 | SDS 0.8x4.0x100 | **2749360000** | A | 100/3.93 |
| 1/.039 | 4.5/.177 | SDIS 1.0x4.5x125 | **2749830000** | A | 125/4.92 | SDS 1.0x5.5x150 | **2749370000** | A | 150/5.90 |
| 1/.039 | 5.5/.217 | SDIS 1.0x5.5x125 | **2749850000** | A | 125/4.92 | SDS 1.0X5.5X150 | **2749380000** | A | 150/5.91 |
| 1.2/.047 | 6.5/.256 | SDIS 1.2x6.5x150 | **2749860000** | A | 150/5.91 | SDS 1.2X6.5X150 | **2749390000** | A | 150/5.90 |
| 1.6/.063 | 8/.315 | SDIS 1.6x8.0x175 | **2749870000** | A | 175/6.89 | | | | |

SDIK PH

SDK PH

SDIR

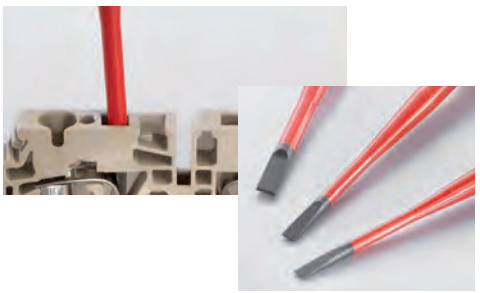
| | | VDE Insulated | | Standard | | Roberston Screwdriver | |
|---|---|---|---|---|---|---|---|
| Size / AF | c (mm/inch) | Type | Order Number | Type | Order Number | Type | Order Number |
| 0 | 60/2.36 | SDIK PH 0 X 60 | **2749880000** | SDK PH0 X 60 | **2749400000** | | |
| 1 | 80/3.15 | SDIK PH 1 X 80 | **2749890000** | SDK PH1 X 80 | **2749410000** | SDIR 1 x 80 | **2750020000** |
| 2 | 100/3.93 | SDIK PH 2 X 100 | **2749900000** | SDK PH2 X 100 | **2749420000** | SDIR 2 x 100 | **2750030000** |
| 3 | 150/5.90 | SDIK PH 3 X 150 | **2749910000** | SDK PH3 X 150 | **2749430000** | | |

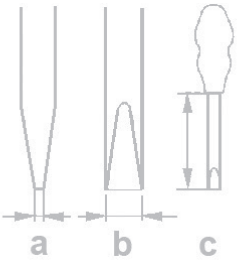
# 1000V Insulated screwdriver — SlimLine

VDE-insulated screwdriver, for working on live parts up to 1000 VAC and 1500 VDC. DIN EN 60900, IEC 900. Safety tested "GS", each piece tested. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## Up to 33% Thinner Blade

The SlimLine design allows you to reach deeply inset fittings and tension clamp terminals.






## SDIS SLIM

VDE-insulated slot-head screwdriver, SDI SL DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. Soft grip component.

| Type | Blade type | Size / AF | a | b | c | Order Number |
|---|---|---|---|---|---|---|
| SDIS SLIM 0.6X3.5X100 | A | | 0.6 | 3.5 | 100 | **2749610000** |
| SDIS SLIM 0.8X4.0X100 | A | | 0.8 | 4.0 | 100 | **2749620000** |
| SDIS SLIM 1.0X5.5X125 | A | | 1.0 | 5.5 | 125 | **2749630000** |
| SDIS SLIM 1.2X6.5X150 | A | | 1.2 | 6.5 | 150 | **2749640000** |

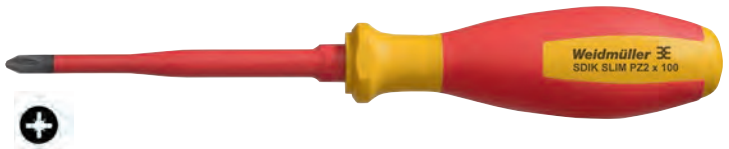
## SDIK SLIM PH

VDE-insulated crosshead screwdriver Phillips type, SDIK SL PH DIN 7438, ISO 8764/2-PH, output acc. to ISO 8764-PH, Soft grip component.

| Type | Blade type | Size / AF | a | b | c | Order Number |
|---|---|---|---|---|---|---|
| SDIK SLIM PH 1 X 80 | | | 1 | | 80 | **2749650000** |
| SDIK SLIM PH 2 X 100 | | | 2 | | 100 | **2749660000** |

## SDIK SLIM PZ

VDE-insulated crosshead screwdriver Pozidrive type, SDIK SL PZ DIN 7438, ISO 8764/2-PZ, output acc. to ISO 8764-PZ, SoftFinish grip




| Type | Blade type | Size / AF | a | b | c | Order Number |
|---|---|---|---|---|---|---|
| SDIK SLIM PZ 1 X 80 | | | 1 | | 80 | **2749670000** |
| SDIK SLIM PZ 2 X 100 | | | 2 | | 100 | **2749680000** |

## SDI SET SLIM S3.5-6.5/PH1/2

6-part set: VDE insulated slotted and crosshead Ph screwdriver set

| Type | Blade type | Size / AF | a | b | c | Order Number |
|---|---|---|---|---|---|---|
| SDIS SLIM 0.6X3.5X100 | A | | 0.6 | 3.5 | 100 | |
| SDIS SLIM 0.8X4.0X100 | A | | 0.8 | 4.0 | 100 | |
| SDIS SLIM 1.0X5.5X125 | A | | 1.0 | 5.5 | 125 | |
| SDIS SLIM 1.2X6.5X150 | A | | 1.2 | 6.5 | 150 | |
| SDIK SLIM PH 1 X 80 | | 1 | | | 80 | |
| SDIK SLIM PH 2 X 100 | | 2 | | | 100 | |
| SDI SET SLIM S3.5-6.5/PH1/2 | | | | | | **2749580000** |

## VDE Insulated and Uninsulated Screwdriver Sets

6-part set: slotted and crosshead screwdriver set - VDE insulated or uninsulated set

| VDE Insulated Set | |
|---|---|
| **Type** | **Order Number** |
| SDI SET S2.5-5.5/PH1/2 | **2749750000** |

Set includes:
- SDIS 0.4X2.5X75
- SDIS 0.5X3.0X100
- SDIS 0.8X4.0X100
- SDIS 1.0X5.5X125
- SDIK PH 1 X 80
- SDIK PH 2 X 100

| Uninsulated Set | |
|---|---|
| **Type** | **Order Number** |
| SD SET S2.5-5.5/PH1/2 | **2749200000** |

Set includes:
- SDS 0.4X2.5X75
- SDS 0.5X3.0X80
- SDS 0.8X4.0X100
- SDS 1.0X5.5X150
- SDK PH1 X 80
- SDK PH2 X 100

## DMS/DMSI VDE Insulated and Uninsulated Torque Screwdrivers

Available with or without VDE insulation, the DMS/DMSI Manual Torque screwdriver is offered in two torque ranges for controlled, accurate tightening of screws. A variety of standard and VDE insulated blades and tip profiles are available for use with the torque screwdriver handle.

- Includes an integral scale for reading torque value
- Audible click upon reaching torque
- Setting tool ensures the right setting (included)

**DMSI**

**DMS**

| DMSI Manual (Insulated) | | |
|---|---|---|
| **Type** | **Torque Range** | **Order Number** |
| DMSI Manual 0.5-1.7 | 0.5-1.7 Nm | **9918390000** |
| DMSI Manual 2.0-7.0 | 2.0-7.0 Nm | **9918400000** |

| DMS Manual (Uninsulated) | | |
|---|---|---|
| **Type** | **Torque Range** | **Order Number** |
| DMS Manual 0.5-1.7 | 0.5-1.7 Nm | **9918370000** |
| DMS Manual 2.0-7.0 | 2.0-7.0 Nm | **9918380000** |

**Insulated Slim Bit Holder**

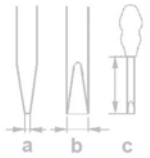
| Type | Description | Order Number |
|---|---|---|
| WK I SLIM BIT | Insulated Slim Bit Holder | **2489300000** |

**Uninsulated Slim Bit Holder**

| Type | Description | Order Number |
|---|---|---|
| WK 1/4 C6,3 E6,3 | Uninsulated Bit Holder | **9202510000** |

| | | | | VDE Insulated | | Standard (Uninsulated) | | |
|---|---|---|---|---|---|---|---|---|
| a (mm/inch) | b (mm/inch) | Tip | Max Torque | Type | Order Number | Type | c (mm/inch) | Order Number |
| 0.4/.016 | 2.5/.0082 | Slotted | 0.4 Nm | WB SI SL 0.4x2.5 | **2433160000** | WK S 0.4x2.5 | 175/6.89 | **9918520000** |
| 0.5/.02 | 3.0/0.118 | Slotted | 0.6 Nm | WB SI SL 0.5x3.0 | **2433170000** | WK S 0.5x3.0 | 175/6.89 | **9918530000** |
| 0.6/.023 | 3.5/0.138 | Slotted | 1.1 Nm | WB SI SL 0.6x3.5 | **2433180000** | WK S 0.6x3.5 | 175/6.89 | **9918540000** |
| 0.8/.031 | 4/.157 | Slotted | 2.5 Nm | WB SI SL 0.8x4.0 | **2433190000** | WK S 0.8x4.0 | 175/6.89 | **9918550000** |
| 1/.039 | 5.5/.217 | Slotted | 3.8 Nm | WB SI SL 1.0x5.5 | **2433200000** | WK S 1.0x5.5 | 175/6.89 | **9918560000** |
| | | Cross | 3.8 Nm | WB IK SL PH1 | **2433210000** | WK K PZ1 | 175/6.89 | **9918610000** |
| | | Cross | 5.5 Nm | WB IK SL PH2 | **2433220000** | WK K PZ2 | 175/6.89 | **9918620000** |
| | | Robertson | 5.5Nm | WB I VK 2 | **2506040000** | WK K PZ 0 | 175/6.89 | **9918600000** |
| | | Torx ® | 5.5 Nm | WB I T20 | **2506020000** | | | |

## Uninsulated Pico Screwdrivers




### SD EL S PICO

Weidmüller precision screwdriver, slotted

| Type | a (mm) | b (mm) | c (mm) | Order Number |
|---|---|---|---|---|
| SD EL 0.3X1.5X40 PICO | 0.3 | 1.5 | 40 | **2750060000** |
| SD EL 0.4X2.0X60 PICO | 0.4 | 2 | 60 | **2750070000** |
| SD EL 0.4X2.5X75 PICO | 0.4 | 2.5 | 75 | **2750080000** |
| SD EL 0.5X3.0X75 PICO | 0.5 | 3 | 75 | **2750090000** |
| SD EL 0,6X3,5X100 PICO | 0.6 | 3.5 | 100 | **2750100000** |
| SD EL 0.8X4.0X100 PICO | 0.8 | 4 | 100 | **2750110000** |

### SD EL PZ PICO

Weidmüller precision screwdriver, cross recess type Pozidriv, PZ 8764

| Type | a (mm) | b (mm) | c (mm) | Order Number |
|---|---|---|---|---|
| SDK EL PZ0 X 60 PICO | | | 60 | **2750120000** |
| SDK EL PZ1 X 80 PICO | | | 80 | **2750130000** |

### SD EL PH PICO

Weidmüller precision screwdriver, cross recess type Phillips, PH 8764

| Type | a (mm) | b (mm) | c (mm) | Order Number |
|---|---|---|---|---|
| SDK EL PH0 X 60 PICO | | | 60 | **2750140000** |
| SDK EL PH1 X 80 PICO | | | 80 | **2750150000** |

### SD EL SET 1.5-4.0/PH0/1

7-piece set: Precision screwdriver slotted and cross-slotted PH

| Type | a (mm) | b (mm) | c (mm) | Order Number |
|---|---|---|---|---|
| SD EL SET 1.5-4.0/PH0/1 | | | | **2750160000** |
| SD EL 0.3X1.5X40 PICO | 0.3 | 1.5 | 40 | |
| SD EL 0.4X2.0X60 PICO | 0.4 | 2 | 60 | |
| SD EL 0.4X2.5X75 PICO | 0.4 | 2.5 | 75 | |
| SD EL 0.5X3.0X75 PICO | 0.5 | 3 | 75 | |
| SD EL 0.8X4.0X100 PICO | 0.8 | 4 | 100 | |
| SDK EL PH0 X 60 PICO 60 | | | 60 | |
| SDK EL PH1 X 80 PICO 80 | | | 80 | |

# Weidmuller Tool Chest

## Optimized organization of tools and work materials

The Weidmuller Tool Chest's functionality, matched with its maximum utility, creates an incomparable work station. Each Tool Chest can be individually extended, equipped and customized. This newest member of the Weidmuller family provides the basis for your mobile production, all the while providing optimum ergonomics and productivity.

Application Example of the Weidmuller Tool Chest

### Features

- **Optimal load capacities**:
  40 kg (88 lbs) per drawer, 400 kg (881 lbs) housing capacity
- **Ideal space conditions**:
  6 drawers with 600 x 447 mm (23.6 x 17.6 in.) usable internal dimensions
  (Height: 2 x 75 mm / 2 x 100 mm / 1 x 150 mm / 1 x 200 mm)
  (Height: 0.08 x 2.9 in. / 0.08 x 3.9 in. / 0.04 x 5.9 in. / 0.04 x 7.9 in.)
- **Maximum utilization**:
  Full extension of drawers and optimal drawer height
- **Perfect work safety**:
  Central locking and increased safety against unintentional opening while mobile
- **Flexible adjustment possibilities**:
  Perforated sidewalls and rear wall for the admission of accessories and tool hook
- **Highest ease of use**:
  Sturdy ergonomic sliding bar made of anodized aluminum
- **Full mobility**:
  Two smooth running, fixed and two swivel wheels made of solid rubber
- **Additional storage and working surface**:
  Non-slip plastic cover with small parts compartment
- **Additional safety**:
  Edge protection made of ABS plastic as shock absorber

With the process of wiring control cabinets being extremely time-consuming, having quick access to organized tools makes all the difference. The Weidmuller tool chest enables you to organize your tools how you want them. With its foam inserts that are tailored to the drawers and its trisection design, you can create custom tool layouts that are personalized to your needs. Not sure which tool goes where? Our foam layouts have labels for each tool, so you can quickly pack up your tools. Each tool layout has a specific QR code that leads to our online catalog with technical specs and application videos.

**Learn more at :** www.weidmuller.com/toolchest

**Simple Extension**

Standard perforated walls on both sides of the tool chest the attachment of additional elements.

**Maximum Flexibility**

Three part foam inserts provide you to tailor your workstation, resulting in more efficient and organized work process.

**Clearly Labeled**

Clearly visible markers with name and article number reveal which tool belongs where.

**Quick Identification**

A QR code leads to the online catalog for further information about the tool.

**Interchangeable**

Custom fit foam inserts keep your tools organized and in place, guaranteeing you always know where your tools will be.

### Tool Chest Set*

| Description | Order Number |
|---|---|
| Shop in a Box | 7940108784 |
| Tool Chest with Tools | 7940108783 |

*Tools and accessories included

### Tool Chest Only

| Description | Order Number |
|---|---|
| Empty Tool Chest | 2683640000 |
| Foam Insert Universal Large | 2683720000 |
| Foam Insert Small 1 | 2683740000 |
| Foam Insert Small 2 | 2683760000 |
| Foam Insert Small 3 | 2683780000 |
| Foam Insert Small 4 | 2683800000 |
| Foam Insert Small 5 | 2683820000 |
| Foam Insert Small 6 | 2683840000 |
| Foam Insert Small 7 | 2683860000 |
| Foam Insert Small 8 | 2683900000 |

# Automatic Machines

Save time and increase efficiency with an automated stripping and crimping machine from Weidmuller. The Automated Equipment portfolio includes stripping and crimping machines for processing collared ferrules in the range of 20 to 14 AWG. If set correctly, the machines will perform consistent and repeatable crimps and strip lengths to guarantee the best connection in your application. All machines come with a one-year limited warranty on parts and labor.

| | Cutting machine | | Stripping machine | | Stripping and crimping machines | | |
|---|---|---|---|---|---|---|---|
| | CUTFIX PRO / CUTFIX PRO FEEDER | | POWERSTRIPPER 6/ POWERSTRIPPER 16 | | CRIMPFIX ECO | CRIMPFIX R | CRIMPFIX R VARIO |
| | | | | | | | |
| **Order number** | **2797190000/ 2797200000** | | **9028510000/ 9028480000** | | **2833890000** | **9028500000** | **2580000000** |
| **Electrical connections** | 100 – 240 V 50 – 60 Hz | | 100 – 240 V 50 – 60 Hz | | 100 – 240 V 50 – 60 Hz | 100 – 240 V 50 – 60 Hz | 100 – 240 V 50 – 60 Hz |
| **Cycle time** | max. 10 m/ sec. | | 0.5 sec. | | < 1,5 sec. | 1.5 sec. | < 2 sec. |
| **Insertion length** | – | | 22 mm + crimping length | | 35 mm | 35 mm | 27mm + crimping length |
| **Pull of length** | | | 3 – 20 mm | | | | |
| **Quantity in total per year** | up to 200,000 | | | | up to 80,0000 | up to 400,000 | up to 400,000 |
| | CUTFIX PRO | CF PRO FEEDER | PS 6 | PS 16 | | | |
| 0.14 mm² / AWG 26 | x | – | x | – | – | – | – |
| 0.25 mm² / AWG 24 | x | – | x | – | – | – | – |
| 0.34 mm² / AWG 22 | x | – | x | – | – | – | – |
| 0.5 mm² / AWG 20 | x | x | x | – | x | x | x |
| 0.75 mm² / AWG 18 | x | x | x | – | x | x | x |
| 1.0 mm² / AWG 17 | x | x | x | – | x | x | x |
| 1.5 mm² / AWG 16 | x | x | x | – | x | x | x |
| 2.5 mm² / AWG 14 | x | x | x | x | x | x | x |
| 4.0 mm² / AWG 12 | x | x | x | x | – | – | – |
| 6.0 mm² / AWG 10 | x | x | x | x | – | – | – |
| 10..0 mm² / AWG 8 | x | x | – | x | – | – | – |
| 16.0 mm² / AWG 6 | – | – | – | x | – | – | – |
| **Cable types** | PVC, MTW, THHN, MTE, AWG, UL halogen free other soft/medium and hard insulation. | | PVC, MTW, THHN, MTE, AWG, UL halogen free other soft/medium and hard insulation. | | PVC | PVC, MTW, THHN, MTE, AWG, UL halogen free other soft/medium and hard insulation. | PVC, MTW, THHN, MTE, AWG, UL halogen free other soft/medium and hard insulation. |
| **Ferrule type** | – | | | | Ferrules on reel | Ferrules on reel | Ferrules on reel |
| S type with bigger plastic collar | – | | | | – | x | x |
| Longer and shorter ferrules | – | | | | – | – | x |
| Ferrules without plastic collar | – | | | | – | – | – |
| Twin ferrules | – | | | | – | – | – |
| **Crimping length** | – | | | | Standard 8 mm | Standard 8 mm | 8 and 10 mm |
| **Wire crimp shape** | – | | | | Trapezoidal | Trapezoidal optional PZ 3 | Trapezoidal optional PZ 3 |
| **Air pressure** | Electrical driven | | Electrical driven | | Electrical driven | 5 - 5.5 bar | 5 - 5.5 bar |
| **Minor customer service** | 200,000 cycles | | 500,000 cycles | | 100,000 cycles | 400,000 cycles | 400,000 cycles |
| **Major customer service** | | | | | 250,000 cycles | 800,000 cycles | 800,000 cycles |
| **Dimension in mm** | 305 x 250 x 250 / 305 x 365 x 250 | | 295 x 190 x 190 / 295 x 190 x 230 | | 230 x 323 x 188 | 330 x 390 x 430 | 485 x 335 x 565 |
| **Weight** | 10 kg / 13.5 kg | | 8.8 kg / 11 kg | | 11 kg | 23 kg | 22 kg |
| **Changeover ferrule size** | CUTFIX PRO = manually CUTFIX PRO FEEDER = Soft-ware controlled | | Turn blad adjustment knob | | Change reel of ferrules, mechanical changeover for cross-section change | Change reel of ferrules | No mechanical changes needed for varying cross sections. Simple touch one display. Easy adjustment for different crimping length. |
| **Other** | Optional retrofitting of the CUTFIX PRO to the CUTFIX PRO FEEDER possible in the WM Service<br>Interface for integration into the Wire Processing Center available | | Optional versions possible after prior evaluation:<br>• special stripping blades<br>• special lengths | | | Optional magazine for 5 rolls can be retrofitted (Order No. 2443370000) | Interface for integration into the Wire Processing Center available |

## UL-certified crimp connection

The UL certification for our crimped, insulated wire- end ferrules means that Weidmüller has opened up an amazing number of possible applications for use arround the world. The UL approval is valid for wire- end ferrules, manual tools and crimping machines from Weidmüller, as an overall system.

| | Stripping and crimping machines | | | Crimping machine |
|---|---|---|---|---|
| | CRIMPFIX L/ CRIMPFIX LS | | CRIMPFIX LZ | POWERCRIMPER 6.0 |
| | | | | |
| **Order number** | 9028530000/ 9028540000 | | 9027310000 | 2634310000 |
| **Electrical connections** | 100 – 240 V<br>50 – 60 Hz | | 100 – 240 V<br>50 – 60 Hz | 100 – 240 V<br>50 – 60 Hz |
| **Cycle time** | 1.5 sec. | | 1.5 sec. | 1.0 sec. |
| **Insertion length** | 35mm/27mm+crimping length | | 35 mm | 13 mm + crimping length |
| **Pull of length** | | | | |
| **Quantity in total per year** | up to 400,000 | | up to 400,000 | up to 400,000 |
| | | | | |
| 0.14 mm² / AWG 26 | – | | – | – |
| 0.25 mm² / AWG 24 | – | | – | – |
| 0.34 mm² / AWG 22 | – | | – | – |
| 0.5 mm² / AWG 20 | x | | x | x |
| 0.75 mm² / AWG 18 | x | | x | x |
| 1.0 mm² / AWG 17 | x | | x | x |
| 1.5 mm² / AWG 16 | x | | x | x |
| 2.5 mm² / AWG 14 | x | | – | x |
| 4.0 mm² / AWG 12 | – | | – | x |
| 6.0 mm² / AWG 10 | – | | – | x |
| 10..0 mm² / AWG 8 | – | | – | – |
| 16.0 mm² / AWG 6 | – | | – | – |
| **Cable types** | PVC, MTW, THHN, MTE, AWG, UL halogen free other soft/medium and hard insulation. | | PVC, MTW, THHN, MTE, AWG, UL halogen free other soft/medium and hard insulation. | Independent of conductor insulation. |
| **Ferrule type** | Loose ferrules | Loose ferrules | Loose ferrules | Loose ferrules |
| S type with bigger plastic collar | x | x | – | x |
| Longer and shorter ferrules | – | x | – | x |
| Ferrules without plastic collar | – | – | – | x |
| Twin ferrules | – | – | x | x |
| **Crimping length** | 8 mm | 6, 8 and 10 mm | 8 mm | 6 - 18 mm |
| **Wire crimp shape** | Trapezoidal<br>optional PZ 3 | | Trapezoidal | Square |
| **Air pressure** | 5 - 5.5 bar | | 5 - 5.5 bar | 5 - 5.5 bar |
| **Minor customer service** | 400,000 cycles | | 400,000 cycles | 400,000 cycles |
| **Major customer service** | 800,000 cycles | | 800,000 cycles | 800,000 cycles |
| **Dimension in mm** | 330 x 390 x 430 | | 330 x 390 x 430 | 165 x 504 x 240 |
| **Weight** | 31 kg | | 31 kg | 11.5 kg |
| **Changeover ferrule size** | Change ferrules<br>Change oscillating conveyor<br>Adjust single unit;<br>LS: Adjust mechanics | | Change ferrules<br>Change oscillating conveyor<br>Adjust single unit<br>Change filler | Turning the setting wheel |
| **Other** | Order number AEH pot:<br>• 1440540000<br>(0.5 -1.5mm²/AWG20-16)<br>• 1440550000<br>(1.5 - 2.5mm²/AWG16-14) | | | |

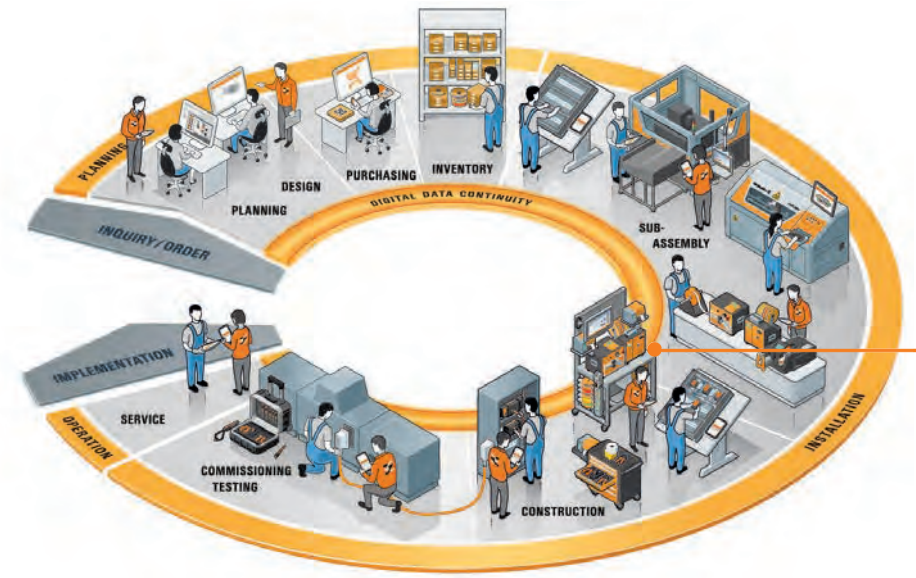
# Cable assembly with maximum efficiency

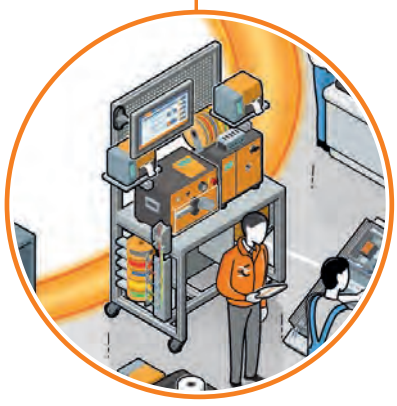
## The highly flexible Wire Processing Center (WPC)

In times of full order books and specialists, a key success factor is to optimize the value added processes. Being faster, being better and more profitable are clear differentiating factors in this situation - also applicable for the panel building sector. Digitalization and automation are becoming more and more important success drivers.
The Wire Processing Center (WPC) is a modular and highly flexible cable assembly system consisting of different cable processing machines and industrial printers. The application software running on the touch display is steering the devices that are interconnected with interfaces.
WPC is offering a maximum level of flexibility, giving multiple options to implement the system in a smart way into any work process (e.g. different options for data implementation, stand-alone function of single devices or integration of further printing systems). Projects can be mastered easily, flexibly and efficiently with WPC.

**Special features:**

- Software-controlled processing of individual cable assembly jobs
- Flexible use options through the stand-alone mode of the devices
- Step-by-step structure to the system approach
- Highest quality through machine processing steps
- Intuitive operation
- Multiple input options (Eplan, Zuken E3, WSCAD, CSV, Excel, add or manual)
- Easy enrichment of ECAD data



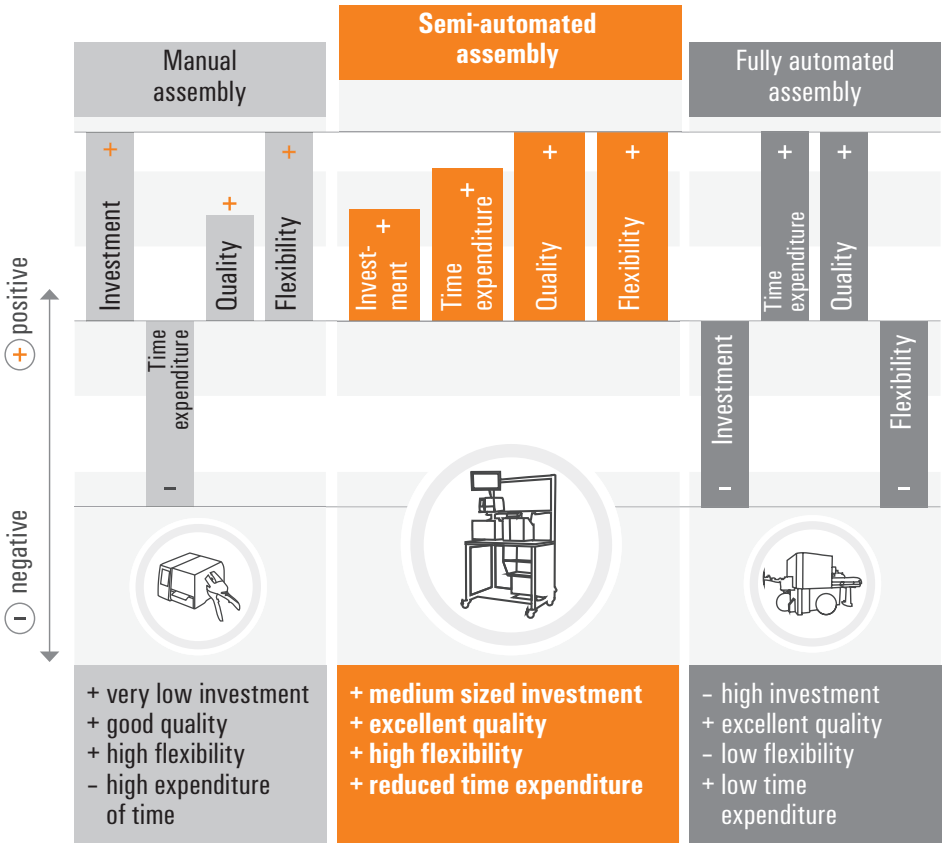



Based on long-term, practical experience all around the control cabinet construction, Weidmuller offers a comprehensive portfolio. In close collaboration with our customers, we are continuously developing new software features for WPC and strives to implement further hardware components as well. Moving forward with this systems approach, the flexibility and the related effectiveness are going to shift completely to new dimensions.

Discover your optimization potential now:
www.weidmuller.com/workplace

**Competitive landscape around the cable confectioning process**

The Wire Processing Center can be integrated into existing manufacturing processes and offers a maximum level of flexibility. Panel builders benefit from significant time savings and achieve excellent quality results. Short-term changes can be easily impletented directly at the WPC station.



**Weidmuller receives the Cabinet Building Innovation Award**

As one of the leading trade media in its sector, SCHALTSCHRANKBAU (eng: cabinet building) awards the Weidmuller Wire Processing Center (WPC) with an INNOVATION AWARD 2021.

# The Wire Processing Center in detail

## Consistent system for semi-automated cable assembly

The modular WPC combines all advantages of the individual components, such as cable processing machines and industrial printers, in a holistic, process-oriented approach. Thus, creating significant value added benefits for the panel builders.

**15“ touch display**
Illustration of software-driven job processing, incude intuitive handling

**Simple editing or adding of orders**
through different user profiles with different access rights

**Stand-alone function of all devices**
all machines and printers can be used in its single functionality

**Optional multiple feed of the automatic cutting machine**
up to 12 conductors can be pre-installed for further processing

**Modular system with highest degree of flexibility**
instant use in systems approach or building up step by step – starting with single device extended later in the systems approach

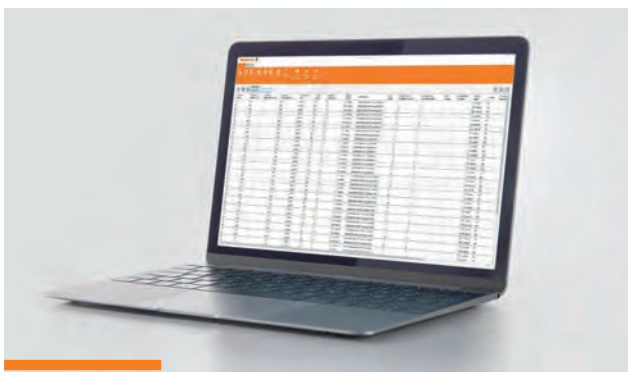
**Different cable feeding options**
suitable for cable from reel or carton boxes

**Mobile workstation**
moving to different places within the production facility

**Further customizing options**
thanks to the open profile system and additional connections for USB, AC power and compressed air

**High flexibility with consistent high quality**
The WPC is distinguished by its modular structure and flexibility. All of the individual devices can be used at any time in their specific functions in stand-alone mode or even purchased individually and upgraded to the system approach at a later point in time. The intuitive software makes it very easy for users to edit and now add to individual jobs.

**Intelligent user guidance and easy operation**
The individual devices of the WPC communicate with the WPC application software via the implemented interfaces. When the job starts, the respective data is transferred to the devices at the same time. The target state of the finished wire is illustrated for the user on the touch screen.



**Planning software WPC tool**
With the planning software WPC tool, data can be read and edited in different ways (manually, WSCAD, CSV files, Eplan and E3 files). Transmission to the Wire Processing Center is via the network or a USB stick.

**Customizing and stockpiling**
The profile system offers very flexible options for optimal integration of the WPC into various processes. Various cable feeds and an integrated shelving system for consumables round off the overall package. Up to 12 conductors can be pre-installed in the optional multiple feeder.

# WPC tool

## Planning software with integrated consistency check

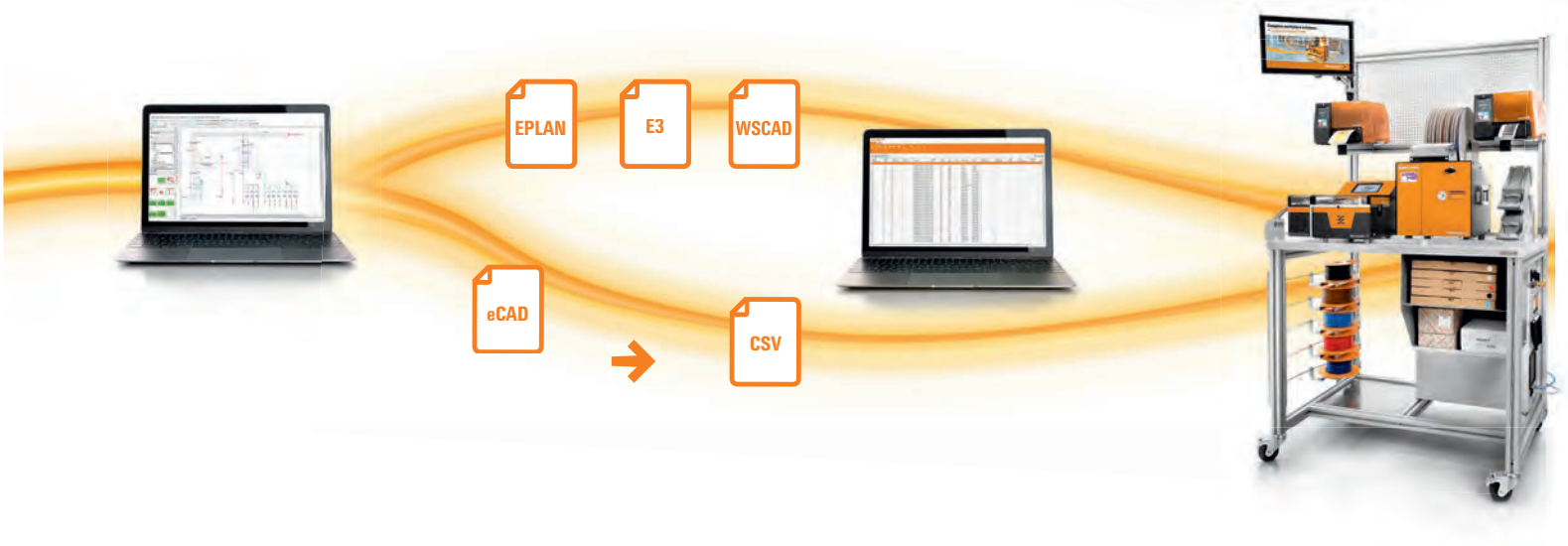
The planning software WPC tool is the link between data planning and processing in production. The eCAD data can be imported into the WPC tool in different ways. In addition to manual entry, the data can also be read directly from Eplan, Zuken E3 or WSCAD. There is also the option to transfer the CSV files (also generated from other eCAD programs) to the planning software.
Weidmuller provides a suitable template with a corresponding arrangement of the individual parameters. This can also be used to process data from existing Excel files. Before the data is transferred to the WPC (via the network or a USB stick), a consistency check is carried out which checks all core parameters, such as cable length, wire end processing, number and labelling data, for completeness. This ensures reliable processing of the cable jobs on the WPC.

**Multiple import options** (Eplan, Zuken E3, WSCAD, CSV, Excel, manual)

**Easy to edit and add to eCAD data**

**Consistency check before transfer to the WPC**

**Data synchronization during network operation**
The progress of the WPC process can be monitored on the WPC tool



# Wire Processing Center

## The flexible all-rounder with a wide variety of possible applications for use

The Wire Processing Center (WPC) combines the highest quality standards and efficiency gains with low cost and time expenditure. Software-controlled, semi-automated cable assembly speeds up the production process significantly and guarantees the highest quality requirements. Persistent data forms the basis of efficiency increases, including consistency checks in the WPC tool, automated processing in the one-piece flow concept on the WPC itself, as well as outstanding flexibility through the use of all individual devices in stand-alone mode.

### Excellent quality

The WPC offers consistently high quality through the use of semiautomated machines.

### High Efficiency

The use of automatic machines decreases processing times and thus contributes to a general increase in manufacturing process efficiency.

### High flexibility

Individual components of the WPC can be removed easily and quickly from the process sequence and used with their individual functions in stand-alone mode.

### Multiple feeding unit

NEW Product Innovation

Up to 12 conductors can be installed at the multiple feeding unit and bring flexibility and efficiency to the next level and thereby the overall degree of automatization.

# Semi automation in panel building

## We talk to André Rose of BN Automation about using the Wire Processing Center

Today there is tedious manual work involved in production processes for control and panel constructon. Introducing automation and digitalization leads to a tremenduous boost in incrased efficiency.
In the area of installation, the many manual activities in mechanical cable processing account for a large portion of working hours.

There are fully-automated systems used for mass production which usually only pay off from large unit numbers. For the project business of the panel builder, these are rarely worthwhile. Therefore, many companies look for profitable assisted solutions. As was the case for BN Automation AG from Thüringen, one of the leading engineering companies in the process industry. BN Automation AG specializes in automation, data solutions and IT.
"We had spent a long time looking for assisted solutions for cable assembly", explains André Rose, Head of Panel Building at BN Automation AG. Through various previous projects at our company we have been able to drive forward digitalization in panel building and gradually implement it in production. But we were still lacking a solution for optimizing the time-consuming work steps in cable processing," Rose remembers. "The cables were still more or less assembled, stripped and crimped by hand. This is why we were looking for a guided solution that we could use to perform the entire process in one work procedure."
The bridge between full automation and pure manual work is formed by Weidmuller's Wire Processing Center (WPC). The WPC connects proven individual components to a modular assembly system consisting of cutting machines, automatic strippers and crimpers as well as industrial printers.

***"Flexibility is a top priority for us. We need to be able to assemble wires, cables and cross-sections in a short time and between projects. And this is exactly what the WPC does for us."***
*- André Rose, Head of Panel Building at BN Automation AG*

BN Automation AG were also impressed by the flexible options of use: In particular, the possibility to use all WPC components in stand-alone mode in their own individual functions. Even short-term changes, which are common in the project business, can be performed directly on the WPC. The user has total flexibility to switch between pure manual operation and the software-controlled process sequence in the system approach at any time. Depending on the situation, the user can react quickly and with maximum flexibility to the ideal process sequence. The WPC software tool guarantees optimal data consistency. This way, data can be simply transferred from the planning phase to the WPC.

By using the WPC, quality has been improved compared to the cables that were previously assembled laboriously by hand. Whether in the morning as work starts or in the evening during the night shift, the quality of the work results can be maintained constantly high throughout the entire working day. "By introducing the WPC, we have significantly improved the processes in production", adds Rose "We can plan better with our resources and specialists. With the modern workplace and digitally-guided work steps, we no longer need to involve our experts in cable assembly, instead they can concentrate on more important projects."
BN Automation is not a series manufacturer of panels, instead each panel they produce is unique. Each one has a different structure and contains different components and types of wires and cables.

Rose gave particular praise to the collaborative partnership: "The colleagues at Weidmuller supported us throughout the entire development process. Naturally there were teething problems but we were always able to solve together. We could contribute our feedback, which Weidmuller immediately listened to and integrated into the project – we were really impressed by this."

# Ordering data

## Wire Processing Center, wire end ferrules and markers

### Wire Processing Center

#### Technical data

| Crimping length | Cross-section range | Electrical connection | Compressed-air connection |
|---|---|---|---|
| 8/10 mm | 0.5 - 2.5 mm² (~AWG 20-14) | 100 - 240 V / 50/60 Hz / 16 VA | 5.5 bar |

#### Ordering data

| | Products | Description of article | Order Number |
|---|---|---|---|
| | Wire Processing Center (WPC) 115 V | Modular system for cable assembly with integrated software (workshop trolley, Cutfix PRO, Crimpfix R VARIO, THM MultiMark), 115 V | **2728490000** |
| | Wire Processing Center Feeder (WPC) 115 V | Modular system for cable assembly with integrated software (workshop trolley, Cutfix PRO FEEDER, Crimpfix R VARIO, THM MultiMark), 115 V | **2816430000** |

#### Ordering data

| | Products | Description of article | Order Number |
|---|---|---|---|
| | WPC WAGON 115V | Workshop trolley (empty trolley with display, panel, shelving system for wire end ferrules and markers) | **2728480000** |
| | WPC KBZF A | Cable entry Option A | **2666380000** |
| | WPC KBZF B | Cable entry Option B | **2666390000** |
| | WPC GFSN | Gripper tray station | **2666400000** |

More technical details and further labelling systems can be found in our online catalogue.

# Assembly Services

Assembly

## Project Planning – Your Design – We Assemble and Ship... FAST

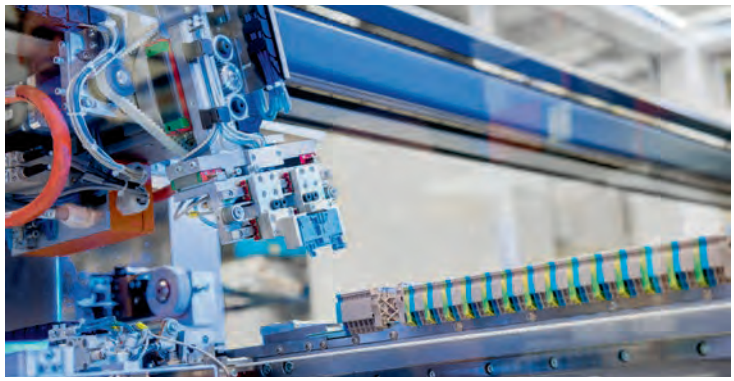
Whether it is a custom populated enclosure or terminal rail assembly, we provide high quality Assembly Services.

# Individually manufactured according to your specifications

## Modified and Assembled Enclosures

### Competitive advantages included

Weidmüller offers the right combination of global certifications, application expertise and industry know-how to develop the best solution for your application. Our Klippon® Protect assembled enclosures – developed and crafted exclusively for you – are assembled from high quality individual components from the Weidmüller portfolio. We offer the flexibility to add third party components while maintaining global approvals. Our assembled enclosures include solutions in Process – Hazardous Location, Power Distribution, Instrumentation & Control and Monitoring & Safety applications. Also, with our Weidmüller Configurator you can easily configure your own custom enclosures.



## Assembled Terminal Rails

Pre-assembled terminal rails simplify planning, reduce production costs and accelerate documentation. Deploy your skilled workers in a much more targeted and effective manner.

## Custom Cable Assemblies

### Reduce your cabling workload

Requirements of modern machines and plants are increasingly specialized. The consequence is increasingly modular concepts that can be flexibly adapted to new requirements. Weidmüller offers you efficient implementation for every cabling task - from standard cabling to custom solutions. Seamless connection with reliable transmission of power, signals and data with convenient connection technology from a single source.

www.weidmuller.com/assemblyservices

# Assembly Services – Expertise for Your Requirements

## Hazardous & Intrinsically Safe Applications with Class 1 Div 2, Zone 1, Zone 2, 21 & 22 Certifications

**Internationally approved certifications**

## Class 1 Div 2, Zone 1, Zone 2, 21, 22, UL, cULus Listed, ATEX, IEC Ex – HazLoc Certified

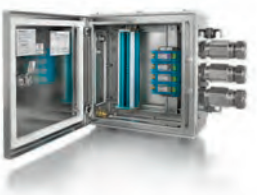
Assembly Services offers a wide range of HazLoc solutions for applications in explosive environments across industrial sectors. Over the years, Weidmüller has successfully established the *Klippon* brand in the process industry for high-quality solutions in connection technology, communication and digitization, as well as for components for hazardous areas and engineering services.

**Shop Approvals**

- UL 508A – Listed Industrial Control Panels - E493842, cULus
- UL 60079-7 - Class 1, Zone 1, 2 AEx Listed Enclosures - E223792
- UL 12.12.01 – Class 1, Division 2 Listed Enclosures – non-incentive - E503056
- UL 698A – Listed Industrial Control Panels Related to Hazardous Areas - E503055
- IECEx 60079-0, -7 - ATEX Class 1 Zone 1 & 2 Certified Enclosures
- IECEx 60079-0, -7 – IECEx Class 1 Zone 1 & 2 Certified Enclosures
- UL 508 – Programmable Controllers – E141197

## Define requirements for Hazardous Location enclosures, thanks to "Engineered to Order"

At Weidmüller, we have the resources and capabilities to design and build both industrial and Class 1 Div 2, Zone 1, 2, 21, 22 HazLoc certified enclosures including intrinsic safety applications.



c UL us LISTED

## Assembled Terminal Rails & Populated Enclosures

**We handle every aspect of the assembly process:**

- Initial design specifications
- Assembly and installation of components
- Certification documentation
- Adding mounting plates, holes or knockouts for cable glands
- Class 1 Div 2, Zone 1, Zone 2, 21, 22 suitability
- UL, cULus, IECEx, ATEX certification

**Our populated enclosure modification capabilities:**

- Adapters
- Heavy Duty Connectors
- Professional tools
- Cable glands, gland plates and breather drains
- Mounting plates / Terminal rails
- Compensating elements
- EMC optimization
- Myers hubs
- Sun and rain roofs
- Labels / warning signs
- Blanking plugs
- Cabtite cable entry system
- Enclosures with viewing windows on request
- Assembled terminal rails certified to industrial and hazardous standards

# Our Value Added Capabilities in Select Industries

Weidmüller is an expert in the transmission of power, signals and data in industrial environments. We support applications in many industries including: Industrial Processes, Oil & Gas, Power Generation, Transportation, Water Treatment, Automation & Machine Tools, Food & Beverage and Field Wiring Connectivity. Experience how Weidmüller solutions increase the efficiency, reliability and quality of your applications while reducing costs and providing flexible customization.

## Transportation Industry

Power Distribution and Ethernet-based command & control system

High power motor connection box

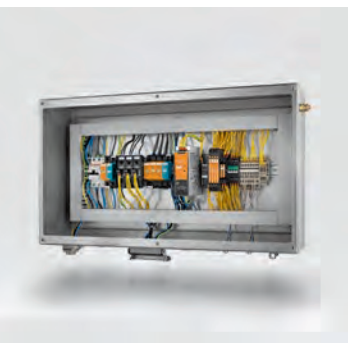
## Process Industry

Self-monitoring safety system for regulating and switching process equipment

## Water Treatment Industry

Water Treatment Process Control solutions

## Energy Industry



Electronic Cabinet Solutions for Wind, Solar, Hydrogen and Grid

## Machine and Factory Automation

Food and Beverage: Assembled and wired terminal rails ready to be installed

## Assembled Rails & Enclosures for OEM Applications

Automotive Manufacturing: Terminal Rails with Fast Delivery Service

New!

- SS Enclosures
- Cabtite Front Tight Cable Entry Ssytem

**Assembled Terminal Rails**
Ready-to-install assembled rail assemblies including electronic components - individually manufactured according to your specifications.

**Modified Enclosures**
Individual empty enclosures with holes, threads or cut-outs according to your specifications - optionally unassembled, equipped or with add-on parts.

**Populated Enclosures**
Assembled enclosures with rail assembly, add-on components and optional Ex approval.

# Engineering & Consulting Services

## Weidmüller engineering solutions simplify your planning processes and product development

Our application centers provide a highly qualified custom-made engineering and production service. Expertise in distributed control systems, hazardous location applications, automation and connectivity – networked all over the world: our experienced engineers near you can resolve the problems you encounter every day by working with you.
You can benefit from comprehensive consulting and engineering support from professional advisors.

The challenge for you is reducing costs and increasing efficiency. Whether it is modified products, assembled terminal rails or populated enclosures, the result of this collaboration is a reduction of up to 30% in cycle times, and up to 20% more space in the control cabinet with signficant improvement in accuracy and reduced cost to you.

www.weidmuller.com/consulting

# Your Partner from Planning through Production

## Reduce installation costs and increase efficiency with our assembly services

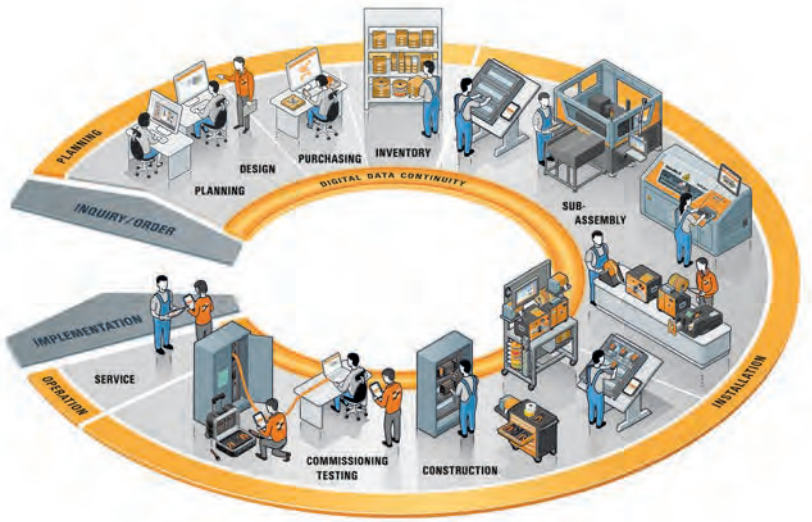
### Solutions

Connectivity Consulting

Fast Delivery Service

Weidmüller Configurator

Online Documentation




### Products

Manual Solutions with Professional Tools

Semi-automated Solutions with Wire Processing Center

Fully Automated Solutions with Rail Laser

# Get Your Assembly Faster with Flexibility and Efficiency

## Weidmüller Configurator

### Our simple and seamless planning tool for electrical designers

### Fast track planning with AutoCAD, ePlan or Zuken and our WMC

**Easy digital engineering**

Engineering processes have to be completed with ever greater speed, precision and efficiency. Today's market expects simple and easy to understand configuration and ordering workflows. This requires intelligent tools that provide optimum support for complex planning processes.

**Simple planning through software support**

The Weidmüller Configurator is a software solution for selecting configuring, and ordering terminal rails and terminal rail components from the Weidmüller range as well as modified and assembled enclosures.

The tool supports continuous engineering workflows, from planning with AutoCAD, ePlan, e3, Zuken or E-CAD systems through to documentation. Create your configuration from over 12,000 digital Weidmüller products with extensive support in all stages of your configuration process.

AUTODESK AUTOCAD · ePLAN electric P8 · E3 series

For more information: www.weidmuller.com/wmc

## Fast Delivery Service

### Get your quote in minutes and select rail assemblies in 10 days

**Todays challenges in plant design and control cabinet production**

- Individualized designs
- More complexity
- Low volumes
- Supply chain challenges
- Tight deadlines
- Price pressures
- Design changes
- Hiring challenges

The Fast Delivery Service (FDS) simplifies your planning, accelerates your production processes and guarantees the delivery of individually assembled and ready-to-install terminal rails and populated enclosures. Reduce your costs, increase your flexibility and stay one step ahead of your competitors.

**Delivery Disclaimer:** In the USA, 10 Day Fast Delivery Service applies to Rail Assemblies Only. Rail Assembly must include FDS program-specific components.

10 Day Delivery guaranteed for the first 25 assemblies; delivery time for higher quantities dependent upon component availability.

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Weidmuller, Ltd
10 Spy Court
Markham, Ontario L3R 5H6
Telephone: (800) 268-4080
orders_can@weidmueller.com
www.weidmuller.ca

Weidmuller, SA de CV
Blvd. Hermanos Serdán 698,
Col. San Rafael Oriente
Puebla, Puebla, Mexico C.P.
72029
Telephone: 01 222 2686267
clientes@weidmueller.com
www.weidmuller.com.mx

Weidmuller, Inc
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
info@weidmuller.com
www.weidmuller.com

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