

Efficient maintenance and diagnostics

Fast, safe and flexible with FrontCom®

Service Interfaces





Easy access to the PLC and functional electronics

FrontCom® Vario is setting new standards

Optimum system control and high system availability ensure that your company remains productive and profitable, in addition to giving you that invaluable competitive edge. Attaching protected service interfaces to the housing walls of your cabinets is a simple, well-proven solution used to effectively boost your system's availability and productivity. You can then grant your technicians quick and safe access to the control elements and functional electronics in the cabinet at any time, conveniently doing so from outside – through the closed cabinet door. This means that you can have a wealth of service work performed during ongoing operation and don't have to wait on specially authorised professionals. At the same time, the risk of misuse or accidents is drastically reduced.

Benefits of modern service interfaces

- Faster work processes
- Production data is read out quickly
- Convenient troubleshooting, error configuration and error programming
- No downtimes caused by having to wait for authorised professionals
- Fewer risks caused by incorrect operation inside the cabinet
- Higher operational reliability and reduced risk of accidents
- Optimised system availability

FrontCom® Vario

The service interface FrontCom® Vario is setting new standards. It requires only half the space of conventional service interfaces – and also boasts plenty of intelligent details that mean a multitude of maintenance and optimisation processes can be performed on your systems in a far more efficient manner and thus at a far more affordable price. The FrontCom® Vario is therefore a clever investment that delivers a wealth of attractive benefits.

- Takes up half the space of conventional service interfaces
- Fewer installation costs as the data, signal and power connections are housed in a single frame
- Data transmission pursuant to the latest Cat.6_A standard
- High flexibility thanks to a variety of possible customisations and combinations
- Variants with UL 508 and NEMA 4X approval, for particularly demanding environmental conditions (outdoor)
- Various locks to suit the individual security level

Find out more about the new FrontCom® Vario service interfaces at:

www.weidmueller.com/frontcom

You want to configure your interface online right now – no problem:

http://galaxy.weidmueller.com/wi_frontcom



FrontCom® Vario single frames

Power supply, signal and data transmission on half the space

Compared to conventional service interfaces, FrontCom® Vario combines several functions in just one single frame, so it only takes up half the space.

The system is compact, simple to install and can be assembled flexibly. There are different data, signal and power modules plus several attractive housing designs available, so you can choose a solution that suits your specific requirements.

Simple and clear identification

The large marking surface on the cover makes for optimum equipment identification and fantastic legibility. The optional touch-safe protection on the inside offers additional marking options for any interface and facilitates clear assignment.



Different protection levels

FrontCom® Vario is available with various locks. From simple knobs to locks with inverse cabinet keys (Daimler Lock) and further to genuine security locks for perfect protection.

Handling Video



Easier everyday work

The practical cover fixation with five lock-in positions allows for easier access and faster work processes. It also means you still have full use of both your hands!



Flexibility and future-proof

The modular system enables perfect adaptation to a wide range of applications and is 100% compatible with the market standard. RJ45 inserts in accordance with the latest Cat.6A standard ensure the best transmission properties. They allow high data transmission rates of up to 10 GBit/s.



Available with shielding as an option

The optional shielding only has to be connected to the frame's earthing screw once, then it transfers the functional earth to all the metal inserts.



Versatile & Robust in IP65

Cover and frame options are available in plastic or metal – offering either lightweight, cost-effective solutions or highly durable versions for harsh environments. Choose from a semi-transparent plastic cover, a metal cover, or a weather-resistant outdoor version with NEMA 4X approval.



NEMA 4X

FrontCom® Vario double frames

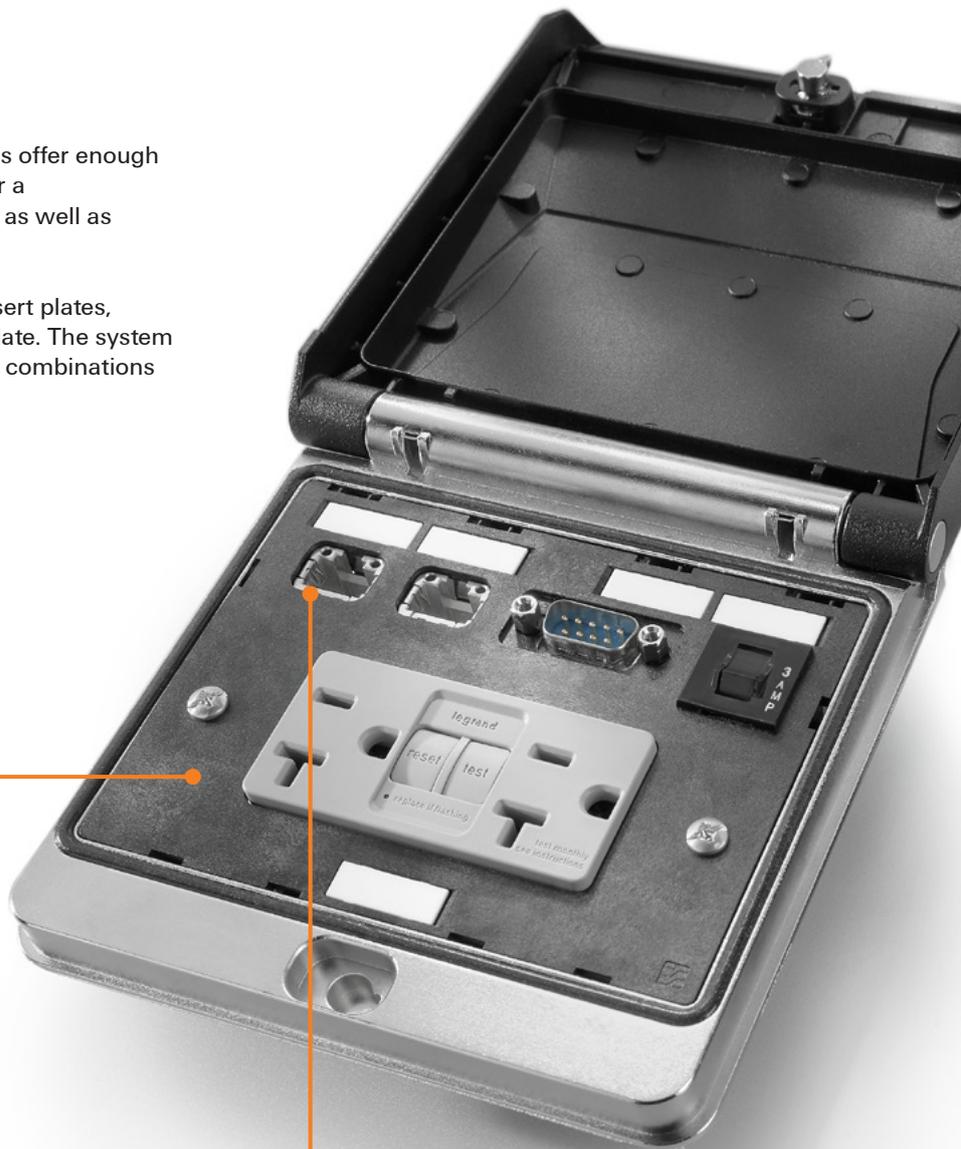
Sufficient space and maximum flexibility

FrontCom® Vario double frame service interfaces offer enough space to accommodate up to 10 connections or a mains socket with circuit breaker (GFCI / RCBO) as well as additional data and signal interfaces.

The double frame can be equipped with two insert plates, separated by the strip, or with a double insert plate. The system thus offers the possibility of numerous interface combinations with maximum flexibility.

Flexible and modular system

FrontCom® Vario achieves unparalleled levels of flexibility as a result of its modular design. All variants meet the IP65 rating requirements and are compatible with market standards.



Handling Video

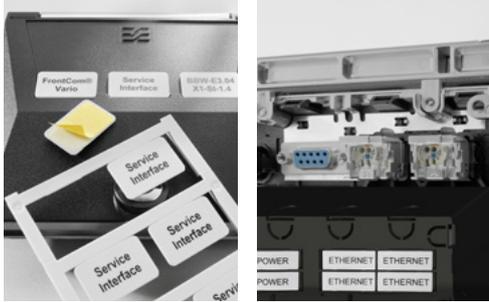


Future-proof data transmission

RJ45 inserts according to current Cat. 6_A standard guarantee optimal data transmission characteristics. They allow high data transmission rates of up to 10 Gbit/s.

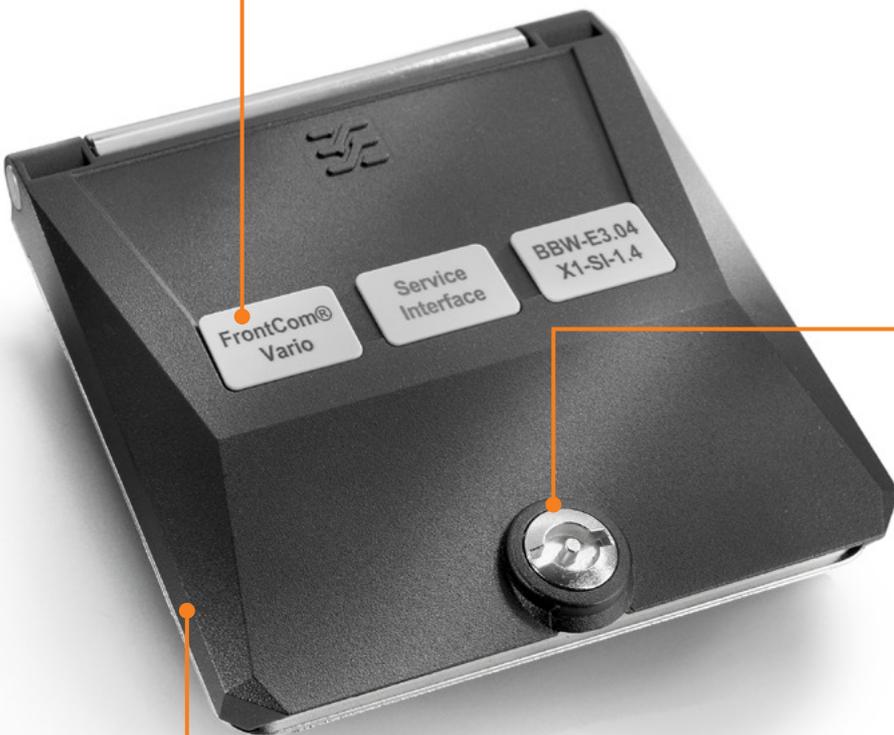
Clear identification

A large marking surface supports perfect equipment identification and legibility. An optional touch-safe protection on the inside offers additional marking options.



Outdoor variants

Special powder-coated variants for the harshest environmental conditions (NEMA 4X - outdoor approval)



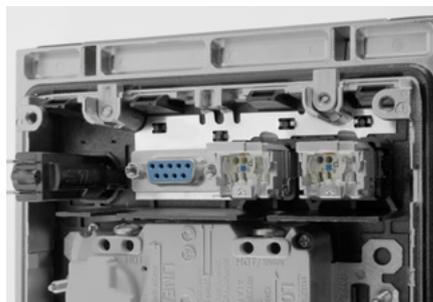
Different protection levels

FrontCom® Vario is available with various locks. From simple knobs to locks with inverse cabinet keys (Daimler Lock) and further to genuine security locks for perfect protection.



Available with shielding

The optional shielding has to be connected only once to the frame's earthing screw to earth all of the metal inserts.



Project planning has to take a multitude of factors into account

We offer more than 5,000 possible combinations

Design engineers and planners are faced with particular challenges when it comes to planning a system project. No two machines are the same and every customer has a different set of requirements. FrontCom® Vario, offers you a hitherto unequalled range of options for adapting your service interface to suit your individual requirements. This also applies to any modifications and retrofitting work required during operation.

The modular FrontCom® Vario service interface offers the perfect combination of frame, inserts and suitable insert plates for almost every configuration. All in all, you can choose from more than 5,000 possible combinations.

The modular principle: Every FrontCom® Vario variant can be designed with a modular structure using the following components:



A variety of frames

With the wide selection of frames and closures, the FrontCom® Vario can adapt to meet different requirements. And installation? It's easy! If there's a suitable cut-out in the housing or panel, all you have to do is position the pre-assembled frame and fix it with the integrated fastening screws.



A variety of insert plates

The insert plates are set apart by different combinations of holders for power, data and signal inserts. Every variant is available with shielding as an option. For installation, the insert plates can simply be locked to the available frames.



Inserts to suit every requirement

Depending on your requirements, you can opt for different data, signal or power inserts and simply lock them to the suitable insert plate. For example, choose country-specific socket systems or different connector types such as RJ45, USB or D-Sub.

FrontCom® Vario online configurator

Our convenient online configurator is available to help you quickly and easily create the perfect solution from the wide range of products on offer. In this respect, you can simply select the components you would like using the drag and drop function. You will then receive a parts list with all of the individual components required that you can save and query online straight away.



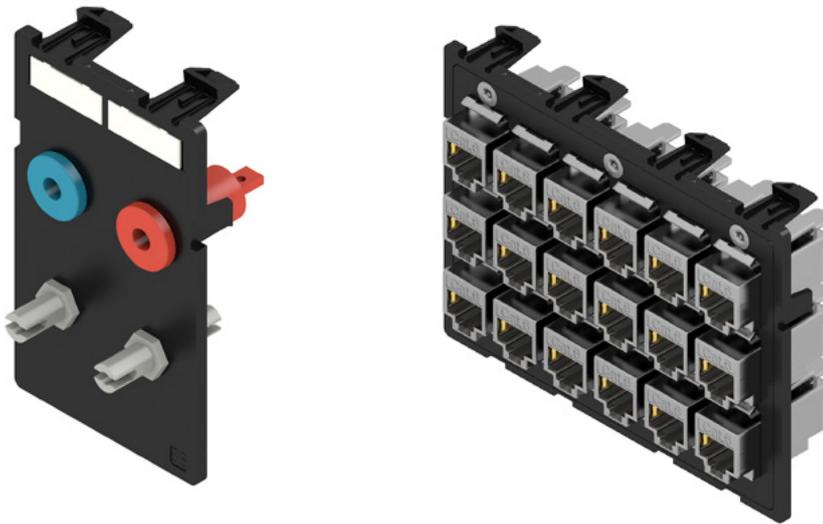
Online

[http://galaxy.
weidmueller.com/wi_
frontcom](http://galaxy.weidmueller.com/wi_frontcom)

FrontCom® Vario Sets and individual designs

Independently of our inserts, the single and double blanking plates allow the individual combination of different interfaces available on the market. The stable 3 mm base plate can be reworked by the user as required and then the desired combination can be mounted.

Examples of designs for our customers' single and double insert plates:



One of the advantages of FrontCom® Vario is maximum flexibility in the combination of interfaces. However, if, for example in the case of series machines, one and the same combination is required in large quantities, sets can also be offered. Customers still enjoy freedom of choice for the base frame, insert plates and inserts as well as interfaces. The markers can also be individually printed and supplied for sets.

Example of a typical FrontCom® Vario set:



FrontCom® Micro

Compact service interfaces for efficient data access in industrial environments

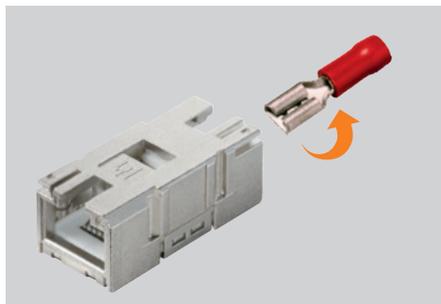
FrontCom® Micro is a compact, secure, and maintenance-friendly service interface.

Thanks to its space-saving design and easy installation in a standard 22 mm cut-out, it allows fast access to networks and control systems without opening the enclosure. This helps reduce downtime through quick diagnostics and updates.

Robust USB, Single Pair Ethernet, and Cat.6A RJ45 interfaces ensure reliable data connections, while the IP65 protection rating safeguards against dust and splashing water.

Easy Shielding of Metal Inserts

The FS 2.8 flat connector enables quick and convenient shielding of SteadyTec metal inserts.

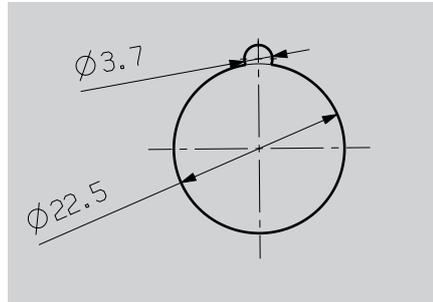


Handling Video



Easy Installation

The installation requires only a simple standardized round hole with a 22.5 mm diameter. An additional 3.7 mm hole provides optimal protection against rotation.



Future-Proof Data Transmission

State-of-the-art Cat.6A RJ45 modules ensure excellent transmission performance, supporting high data rates of up to 10 Gbps. In addition, interfaces for USB A, USB A/B, USB 2.0 and Single Pair Ethernet are also available.



Easy and Clear Identification

Optional SwitchMark markers enable optimal equipment labeling and ensure excellent readability.

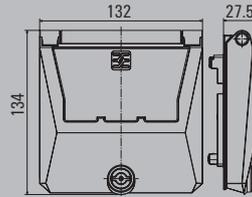


FrontCom® Vario IP65 service interface

FrontCom® Vario
Metal double frame

- IP65
- Possibility of using single and double insertion plates

Metal cover



Technical data

Protection degree / Protection class (UL)
Material cover
Material frame
Ambient temperature (operational)
Approvals
Note

IP65, in closed state / Type 12
Zinc diecast, powder-coated
Zinc diecast
-40 °C...70 °C
CSA; CURUS
Note

Ordering data

Rotary button operation
Lockable with key
Lockable with electrical cabinet key
Lockable with electrical cabinet key (Daimler lock)
Note

Type	Qty.	Order No.
IE-FC-DFM-KNOB	1	2003170000
IE-FC-DFM-KEY	1	2003180000
IE-FC-DFM-CAB	1	2003190000
IE-FC-DFM-CAB-DB	1	2003150000
Note		

Accessories

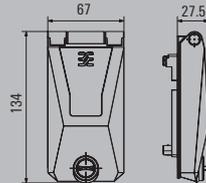
spare key
Marking tags
silver
light grey
white
MultiCard
Touch-safe protection
Touch-safe protection
Bar (for mounting single insert plates)
Partition
Note

Type	Qty.	Order No.
IE-FC-KEY2	1	2066650000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FC-DFIPH	1	2003340000
Note		

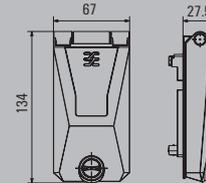
FrontCom® Vario
Metal single frame

- IP65

Metal cover



Plastic cover



Technical data

Protection degree / Protection class (UL)
Material cover
Material frame
Ambient temperature (operational)
Approvals

Note

IP65, in closed state / Type 12
Zinc diecast, powder-coated
Zinc diecast
-40 °C...70 °C
CSA; CURUS; DETNORVER

IP65, in closed state
Polycarbonate PC
Zinc diecast
-40 °C...70 °C
DETNORVER

Ordering data

Rotary button operation
Lockable with key
Control cabinet key (double bit)
Control cabinet key (Daimler)

Note

Type	Qty.	Order No.
IE-FC-SFM-KNOB	1	1450530000
IE-FC-SFM-KEY2	1	1450540000
IE-FC-SFM-CAB	1	2003160000
IE-FC-SFM-CAB-DB	1	2663200000

Type	Qty.	Order No.
IE-FC-SFP-KNOB	1	1450510000
IE-FC-SFP-KEY2	1	1450520000
IE-FC-SFP-CAB	1	2003140000
IE-FC-SFP-CAB-DB	1	2663190000

Accessories

spare key

Marking tags

silver
light grey
white

MultiCard

Touch-safe protection

Touch-safe protection

Accessories for mounting cut-out

Punch for hole punching tool
Punching tool

Type	Qty.	Order No.
IE-FC-KEY2	1	2066650000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
KDK 52 X 91	1	2008410000
IE-KO-HAT	1	1966810000

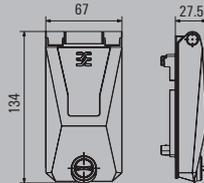
Type	Qty.	Order No.
IE-FC-KEY2	1	2066650000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
KDK 52 X 91	1	2008410000
IE-KO-HAT	1	1966810000

Note

FrontCom® Vario
Plastic single frame

- IP65

Plastic cover



Technical data

Protection degree / Protection class (UL)
Material cover
Material frame
Ambient temperature (operational)
Approvals

IP65, in closed state
Polycarbonate PC
Polycarbonate glass fiber reinforced
-40 °C...70 °C

Note

Ordering data

Note

Type	Qty.	Order No.
IE-FC-SFPP-KNOB	1	3041950000

Accessories

Marking tags

- silver
- light grey
- white

MultiCard

Touch-safe protection

Touch-safe protection

Accessories for mounting cut-out

- Punch for hole punching tool
- Punching tool

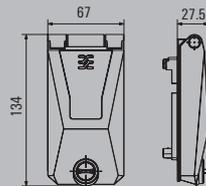
Type	Qty.	Order No.
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
KOK 52 X 91	1	2008410000
IE-KO-HAT	1	1966810000

Note

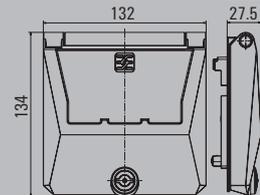
FrontCom® Vario
Frame UL Type 4X

- For particularly harsh environmental conditions (outdoor) with UL Type 4X approval

Single frame, metal lid



Double frame, metal lid



Technical data

Protection degree / Protection class (UL)
Material cover
Material frame
Ambient temperature (operational)
Approvals

Note

IP65, in closed state / Type 4X
Zinc diecast, powder-coated
Zinc diecast, powder-coated
-40 °C...70 °C
CSA; CURUS; DETNORVER

IP65, in closed state / Type 4X
Zinc diecast, powder-coated
Zinc diecast, powder-coated
-40 °C...70 °C
CSA; CURUS; DETNORVER

Ordering data

Rotary button operation

Note

Type	Qty.	Order No.
IE-FC-SFM-KNOB-4X	1	2669630000

Type	Qty.	Order No.
IE-FC-DFM-KNOB-4X	1	2669640000

Accessories

Marking tags

silver
light grey
white

MultiCard

Touch-safe protection

Touch-safe protection

Accessories for mounting cut-out

Punch for hole punching tool
Punching tool

Bar (for mounting single insert plates)

Partition

Type	Qty.	Order No.
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
KOK 52 X 91	1	2008410000
IE-KO-HAT	1	1966810000

Type	Qty.	Order No.
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FC-DF-IPH	1	2003340000

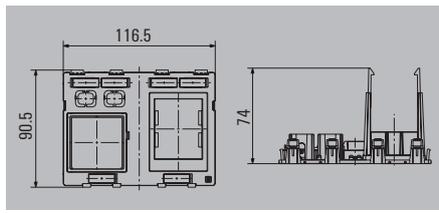
Note

FrontCom® Vario

Insert plates for double frames

- IP20

1 x power, 2 x data, 1 x RCBO



Technical data

Material
Insert, data
Insert Power large
Insert RCBO (2 modular width units)
Insert suitable for RCBO according to standard
Insert GFCl /2 x Power US pre-assembled
Ambient temperature (operational)
Approvals
Note

Polycarbonate PC
2
1
1
DIN43880
-40 °C...70
CSA; CURUS

Ordering data

shielded
unshielded
Note

Type	Qty.	Order No.
IE-FC-DSP-PWB/2ST/FILS	1	2067080000
IE-FC-DIP-PWB/2ST/FILS	1	2067070000

Accessories

Inserts, Data
SPE Coupling
RJ45 coupling
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
RJ45 module EIA/TIA T568 A
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B
MultiCard
Touch-safe protection
Touch-safe protection

Type	Qty.	Order No.
IE-BI-SPO-C	10	2861260000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	1	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Note

An overview of the power inserts can be found in this chapter under power insert sockets.

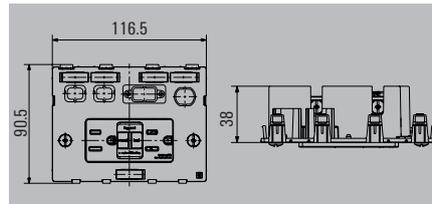
FrontCom® Vario

Insert plates for double frames

- IP20

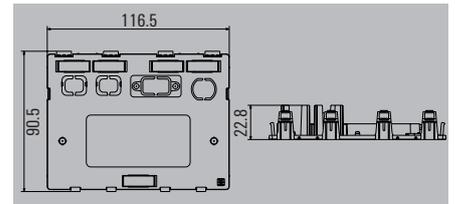
1x GFCI, 2x data, 1x signal, 1x fuse

GFCI pre-assembled



1x GFCI, 2x data, 1x signal, 1x fuse

without GFCI



Technical data

Material	Polycarbonate PC
Insert, data	2
Insert Power large	
Insert fuse	1
Signal insert D-Sub 9-pole / VGA / HDMI	1
Insert RCBO (2 modular width units)	
Insert GFCI / 2 x Power US pre-assembled	1
Ambient temperature (operational)	-35 °C...66 °C
Approvals	CSA; CURUS
Technical data GFCI insert	
Operating voltage / Rated current	125 V / 20 A
GFCI protected US outlet	2 pieces
Self-test	automatically every 3 seconds
Status indication	red LED
Type of connection	Screw connection
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Note	

Material	Polycarbonate PC
Insert, data	2
Insert Power large	
Insert fuse	1
Signal insert D-Sub 9-pole / VGA / HDMI	1
Insert RCBO (2 modular width units)	
Insert GFCI / 2 x Power US pre-assembled	
Ambient temperature (operational)	-40 °C...70 °C
Approvals	
Technical data GFCI insert	
Operating voltage / Rated current	125 V / 20 A
GFCI protected US outlet	2 pieces
Self-test	automatically every 3 seconds
Status indication	red LED
Type of connection	Screw connection
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Note	

Material	Polycarbonate PC
Insert, data	2
Insert Power large	
Insert fuse	1
Signal insert D-Sub 9-pole / VGA / HDMI	1
Insert RCBO (2 modular width units)	
Insert GFCI / 2 x Power US pre-assembled	
Ambient temperature (operational)	-40 °C...70 °C
Approvals	
Technical data GFCI insert	
Operating voltage / Rated current	125 V / 20 A
GFCI protected US outlet	2 pieces
Self-test	automatically every 3 seconds
Status indication	red LED
Type of connection	Screw connection
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Note	

Ordering data

	shielded
	unshielded
Note	

Type	Qty.	Order No.
IE-FC-DSP-CI/3A/2ST/1D9	1	2004810000
IE-FC-DIP-CI/3A/2ST/1D9	1	2003370000
incl. pre-mounted GFCI		

Type	Qty.	Order No.
IE-FC-DIP-PWC-3A/2ST/1D9	1	2897320000

Accessories

Inserts, Signal	
	D-Sub, 9-pole, female/female
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection
	VGA coupling
	HDMI coupling
Fuse inserts	
	3 A
Inserts, Data	
	SPE Coupling
	RJ45 coupling
	RJ45 module EIA/TIA T568 A
	RJ45 module EIA/TIA T568 B
	RJ45 module PROFINET
	USB 2.0 A / A
	USB 3.0 A / A
	USB 2.0 A / B
MultiCard	
Note	

Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000
IE-FCI-PWCB-3A	1	1543690000
IE-BI-SPO-C	10	2861260000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	1	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044

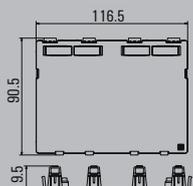
Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000
IE-FCI-PWCB-3A	1	1543690000
IE-BI-SPO-C	10	2861260000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BH-USB-A	10	1019570000
IE-BH-USB-3.0-A	1	1487920000
IE-BH-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044

FrontCom® Vario

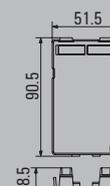
Insert plates

- IP20

blank double plate



blank single plate



Technical data

Material	
Ambient temperature (operational)	
Approvals	
Note	

Material	Polycarbonate PC
Ambient temperature (operational)	-40 °C...70
Approvals	CSA; CURUS
Note	

Material	Polycarbonate PC
Ambient temperature (operational)	-40 °C...70
Approvals	CSA; CURUS; DETNORVER
Note	

Ordering data

Type	
Note	unshielded

Type	Qty.	Order No.
IE-FC-DIP-BP	1	2004890000

Type	Qty.	Order No.
IE-FC-IP-BP	1	1450710000

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Note	
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Note	
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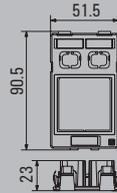
Note	
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FrontCom® Vario

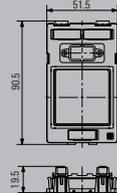
Insert plates

- IP20

1 x power, 2 x data



1x Power, 1x Signal



Technical data

Material
Insert, data
Signal insert DisplayPort
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals
Note

Polycarbonate PC
2
1
-40 °C...70
CSA; CURUS; DETNORVER

Polycarbonate PC
1
1
-40 °C...70
CSA; CURUS

Ordering data

shielded
unshielded
Note

Type	Qty.	Order No.
IE-FC-SP-PWB/2ST	1	1450550000
IE-FC-IP-PWB/2ST	1	1450630000

Type	Qty.	Order No.
IE-FC-IP-PWB/1D9	1	2003350000

Accessories

Inserts, Data
SPE Coupling
RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B
MultiCard
Touch-safe protection
Touch-safe protection
Inserts, Signal
D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
VGA coupling
HDMI coupling
DisplayPort (DP)

Type	Qty.	Order No.
IE-BI-SP0-C	10	2861260000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJA	10	1962850000
IE-BI-RJ45-FJB	10	1963840000
IE-BI-RJ45-FJP	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	1	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Type	Qty.	Order No.
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000

Note

You will find an overview of the power inserts in this chapter under Power inserts-sockets.

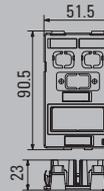
You will find an overview of the power inserts in this chapter under Power inserts-sockets.

FrontCom® Vario

Insert plates

- IP20

1x Power, 2x Data, 1x Signal



Technical data

Material
 Insert, data
 Signal insert DisplayPort
 Signal insert D-Sub 9-pole / VGA / HDMI
 Insert, signal, D-Sub, 25-pole
 Insert Power large
 Insert Power small
 Insert Power US
 Ambient temperature (operational)
 Approvals

Polycarbonate PC
 2
 1
 1
 -40 °C...70
 CSA; CURUS; DETNORVER

Note

Ordering data

shielded
 unshielded

Note

Type	Qty.	Order No.
IE-FC-SP-PWS/2ST/1D9	1	1450600000
IE-FC-IP-PWS/2ST/1D9	1	1450690000

Accessories

Inserts, Data

SPE Coupling
 RJ45 coupling
 RJ45 module EIA/TIA T568 A
 RJ45 module EIA/TIA T568 B
 RJ45 module PROFINET
 USB 2.0 A / A
 USB 3.0 A / A
 USB 2.0 A / B

Type	Qty.	Order No.
IE-BI-SPO-C	10	2861260000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	1	1487920000
IE-BI-USB-AB	10	1131380000

MultiCard

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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Touch-safe protection

Touch-safe protection

IE-FC-PWPC	1	1450820000
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Inserts, Signal

D-Sub, 9-pole, female/female
 D-Sub, 9-pole, female / male
 D-Sub, 9-pole, female / solder connection
 VGA coupling
 HDMI coupling
 DisplayPort (DP)

IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000

Note

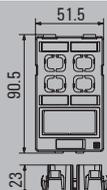
You will find an overview of the power inserts in this chapter under Power inserts-sockets.

FrontCom® Vario

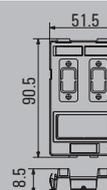
Insert plates

- IP20

1 x power, 4 x data



1 x power, 2 x signal



Technical data

Material
Insert, data
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals
Note

Polycarbonate PC
4
2
1
-40 °C...70
CSA; CURUS; DETNORVER
Note

Polycarbonate PC
2
1
-40 °C...70
CSA; CURUS; DETNORVER
Note

Ordering data

shielded
unshielded
Note

Type	Qty.	Order No.
IE-FC-SP-PWS/4ST	1	1450570000
IE-FC-IP-PWS/4ST	1	1450640000
Note		

Type	Qty.	Order No.
IE-FC-SP-PWS/2D9	1	1450610000
IE-FC-IP-PWS/2D9	1	1450680000
Note		

Accessories

Inserts, Power	Socket IT/EU
Inserts, Data	SPE Coupling
	RJ45 coupling
	RJ45 module EIA/TIA T568 A
	RJ45 module EIA/TIA T568 B
	RJ45 module PROFINET
	USB 2.0 A / A
	USB 3.0 A / A
	USB 2.0 A / B
MultiCard	
Touch-safe protection	Touch-safe protection
Inserts, Signal	D-Sub, 9-pole, female/female
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection
	VGA coupling
	HDMI coupling
Note	

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
IE-BI-SP0-C	10	2861260000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	1	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
Note		

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000
Note		

Data inserts

RJ45 Single Pair Ethernet (SPE)

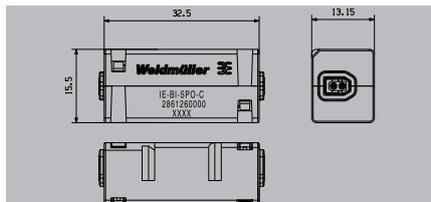
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®
- SPE coupling for FrontCom® only

Coupling

Pin contacts



SPElink®



Technical data

Protection degree
 Plugging cycles
 Shielding
 Housing main material
 Contact surface
 Connection cross-section, flexible, min. / max.
 Connection cross-section, solid, min. / max.
 Insulation diameter, min. / max.
 Connector standard
 Ambient temperature (operational)
 PoE / PoE+
 Approvals

IP67 with housing
 750
 PA 66
 Gold over nickel
 ...
 IEC 63171-2
 -40 °C...85 °C
 PoDL acc. to IEEE 802.3bu / cg

Note

Ordering data

tool-free Coupling

Note

Type	Qty.	Order No.
IE-BI-SPO-C	10	2861260000

Accessories

Type	Qty.	Order No.
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Note

Data inserts

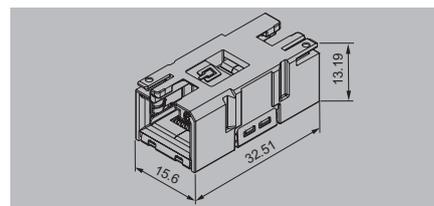
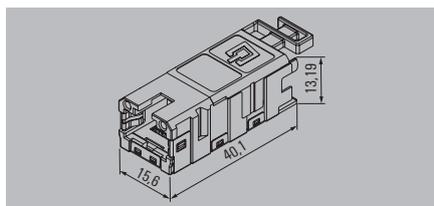
RJ45

- Completely in Cat. 6A
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

Module



Coupling



Technical data

Protection degree
Plugging cycles
Shielding
Housing main material
Contact surface
Connection cross-section, flexible, min. / max.
Connection cross-section, solid, min. / max.
Insulation diameter, min. / max.
Connector standard
Ambient temperature (operational)
PoE / PoE+
Approvals
Note

IP67 with housing
750
360° all-round enclosure, FS 2.8 Ground connection for equipotential bonding
Zinc diecast
Gold over Nickel, Au ≥ 0.8 µm
AWG 26 / AWG 22
AWG 24 / AWG 22
0.85 mm...1.6 mm
IEC 60603-7-51
-40 °C...70 °C
conforming to IEEE 802.3bt
CULUS
Connection of WM Cat. 7 AWG 27/7 LSZH possible

IP67 with housing
750
360° all-round enclosure, FS 2.8 Ground connection for equipotential bonding
Zinc diecast
Gold over Nickel, Au ≥ 0.8 µm
...
IEC 60603-7-51
-40 °C...70 °C
conforming to IEEE 802.3af
CULUS; DETNORVER

Ordering data

tool-free	
	TIA-A. Cat. 6A
	TIA-B. Cat. 6A
	PROFINET Cat. 5
	Coupling
Note	

Type	Qty.	Order No.
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000

Type	Qty.	Order No.
IE-BI-RJ45-C	10	1962840000

Accessories

Tools
Optional pressing tool

Type	Qty.	Order No.
PWZ RJ45	1	1118040000

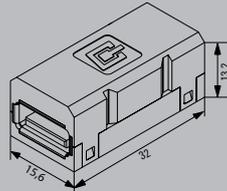
Type	Qty.	Order No.

Note

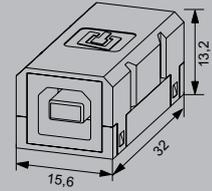
Data inserts
USB

- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

Coupling USB A/A



Coupling USB A/B



Technical data

Protection degree
Shielding
Ambient temperature (operational)
Connection 1 / 2
Connector standard
Approvals

Note

IP67 with housing
360° all-round enclosure
-40 °C...70 °C
USB A / USB A
IEC 61076-3-107
CULUS; DETNORVER

IP67 with housing
360° all-round enclosure
-40 °C...70 °C
USB A / USB B
IEC 61076-3-107
CULUS; DETNORVER

Ordering data

	USB 2.0
	USB 3.0

Note

Type	Qty.	Order No.
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000

Type	Qty.	Order No.
IE-BI-USB-AB	10	1131380000

Accessories

USB cable 2.0	
	0.5 m
	1.0 m
	1.5 m
	1.8 m
	3.0 m
USB cable 3.0	
	0.5 m
	1.8 m
	3.0 m
	5.0 m

Type	Qty.	Order No.
IE-USB-A-A-0.5M	1	1993550005
IE-USB-A-A-1.0M	1	1993550010
IE-USB-A-A-1.5M	1	1993550015
IE-USB-A-A-1.8M	1	1993550018
IE-USB-A-A-3.0M	1	1993550030
IE-USB-3.0-A-A-0.5M	1	2581730005
IE-USB-3.0-A-A-1.8M	1	2581730018
IE-USB-3.0-A-A-3M	1	2581730030
IE-USB-3.0-A-A-5M	1	2581730050

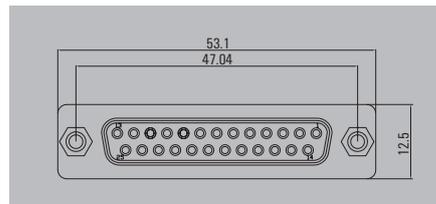
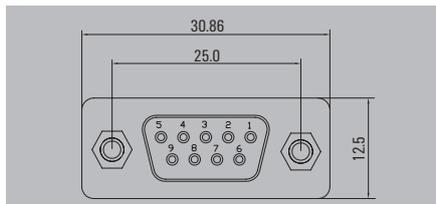
Type	Qty.	Order No.

Note

Signal inserts
D-sub

9-pole

25-pole



Technical data

Protection degree	
Housing main material	
Number of poles	
Housing surface	
Material insulator	
Contact surface	
Contact resistance	
Insulation strength	
Dielectric strength, contact / contact	
Ambient temperature (operational)	
Approvals	
Note	

IP20
SPCC
9
tin-plated
PBT glass fibre reinforced UL 94 V-0
Gold-plated
≤ 20 mΩ
1000 MΩ at 500 V DC
1 kV _{eff} / 1 min.
-55 °C...105
DET NORVER; UR

IP20
SPCC
25
tin-plated
PBT glass fibre reinforced UL 94 V-0
Gold-plated
≤ 20 mΩ
1000 MΩ at 500 V DC
1 kV _{eff} / 1 min.
-55 °C...105
DET NORVER; UR

Ordering data

Socket / socket
Socket / plug
Socket / solder connection
Note

Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000

Type	Qty.	Order No.
IE-FCI-D25-FF	1	1450880000
IE-FCI-D25-FM	1	1450890000
IE-FCI-D25-FS	1	1450900000

Accessories

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Type	Qty.	Order No.

Type	Qty.	Order No.

Note

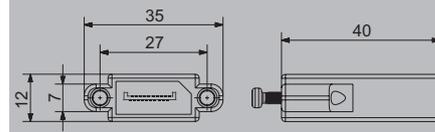
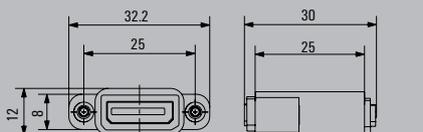
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Signal inserts

HDMI

DisplayPort (DP)



Technical data

Protection degree
Housing main material
Number of poles
Housing surface
Contact surface
Contact resistance
Insulation strength
Dielectric strength, contact / contact
Ambient temperature (operational)
Approvals
Note

IP20
PVC casting
9
Gold-plated
-15 °C...50
Note

IP20
PVC casting
20
Gold-plated
-20 °C...45 °C
Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCHDMI-FF	1	2003390000

Type	Qty.	Order No.
IE-FCI-DP-FF	1	3042050000

Accessories

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Type	Qty.	Order No.

Type	Qty.	Order No.

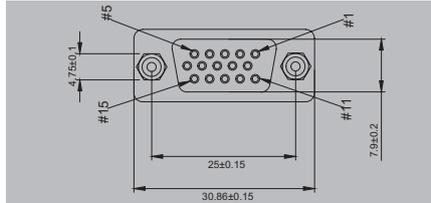
Note

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Signal inserts

HD15 / VGA



Technical data

Protection degree
Housing main material
Number of poles
Housing surface
Contact surface
Contact resistance
Insulation strength
Dielectric strength, contact / contact
Ambient temperature (operational)
Approvals
Note

IP20
25
Gold over nickel
1000 MΩ at 500 V DC
1000 V _{eff} / 1 min
-55 °C...105
DET NORVER; UR
Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCHD15-FF	1	1556290000

Accessories

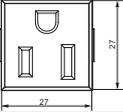
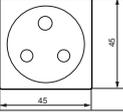
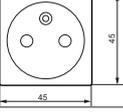
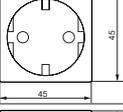
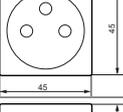
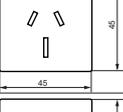
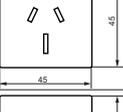
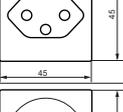
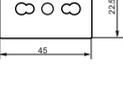
Note

Type	Qty.	Order No.
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Note

Note

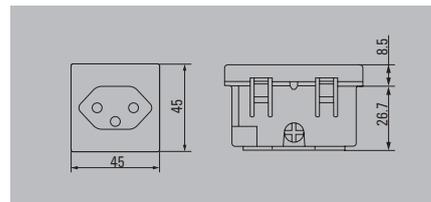
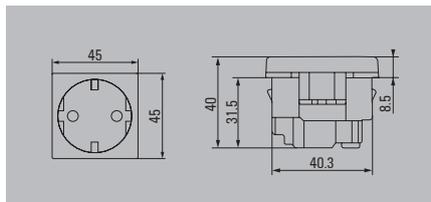
Type overview: Power inserts/sockets

Type	Region	Plug-Type		Qty.	Order No.
IE-FCI-PWS-US	USA	Type B		1	1450800000
<p>Power socket type B isn't compatible with mounting rail adaptor, but it's applicable with following insert plates: 1450620000, 1450700000, 1543710000.</p>					
IE-FCI-PWB-IND	India, South Africa	Type D		1	2500710000
IE-FCI-PWB-FR/B/CZ	France, Belgium, Czechia	Type E		1	2426700000
IE-FCI-PWB-DE	Germany	Type F		1	1450730000
IE-FCI-PWB-GB	Great Britain	Type G		1	1450770000
IE-FCI-PWS-ISR	Israel	Typ H		1	2531060000
IE-FCI-PWB-AU-15A	Australia	Type I		1	1450830000
<p>The difference to IE-FCI-PWB-AU-10A and IE-FCI-PWB-CN is rated current: 15A 240V and the protective contact is higher and wider. Furthermore the difference to IE-FCI-PWB-CN is the connection on the backside.</p>					
IE-FCI-PWB-AU-10A	Australia	Type I		1	1546590000
<p>The difference to IE-FCI-PWB-CN is the connection on the backside. Connector face is the same. The difference to IE-FCI-PWB-AU is rated current: 10A 240V and the protective contact is smaller and thinner.</p>					
IE-FCI-PWB-CN	China	Type I		1	1450790000
<p>The difference to IE-FCI-PWB-AU is rated current: 10A 240V and the protective contact is smaller and thinner. Furthermore the difference to IE-FCI-PWB-AU-10A and IE-FCI-PWB-AU is the connection on the backside.</p>					
IE-FCI-PWB-CH	Schwitzerland	Type J		1	1450780000
IE-FCI-PWB-DK	Denmark	Type K		1	2661340000
IE-FCI-PWS-IT	Italy, Europe	Type L		1	1450810000

Power inserts
Power sockets

Germany

Switzerland



Technical data

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Connector face	Type F
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Connector face	Type F
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Connector face	Type J
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	10 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Ordering data

	white
	orange
	black
Note	

Type	Qty.	Order No.
IE-FCI-PWB-DE	1	1450730000
IE-FCI-PWB-DE-OR	1	1554000000
IE-FCI-PWB-DE-BK	1	3088740000

Type	Qty.	Order No.
IE-FCI-PWB-CH	1	1450780000

Accessories

FrontCom	
Adapter for mounting rail installation	
Flat blade connector, 6.5 mm	
straight, 4.8 mm, fully insulated	

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

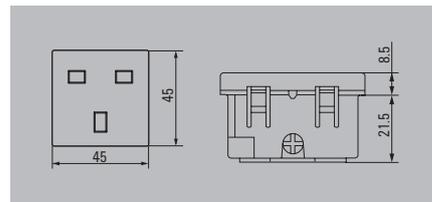
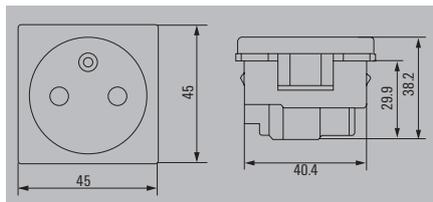
Note

Note

Power inserts
Power sockets

France / Belgium / Czech Republic

UK



Technical data

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Connector face	Type E
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	12 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...35 °C
Approvals	
Note	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Connector face	Type E
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	12 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...35 °C
Approvals	
Note	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Connector face	Type G
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	13 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Ordering data

	white
	orange
	black
Note	

Type	Qty.	Order No.
IE-FCI-PWB-FR/B/CZ	1	2426700000
IE-FCI-PWB-FR-OR	1	2007230000

Type	Qty.	Order No.
IE-FCI-PWB-GB	1	1450770000

Accessories

FrontCom	Adapter for mounting rail installation
Flat blade connector, 6.5 mm	straight, 4.8 mm, fully insulated

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note	
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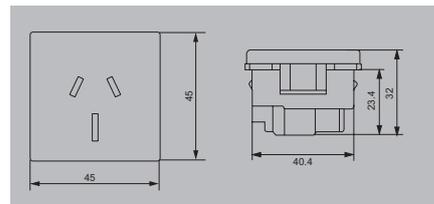
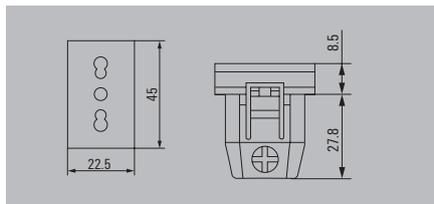
Note	
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Note	
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Power inserts
Power sockets

Italy / Europe

Australia, 15 A



Technical data

Protection degree	
Housing main material	
Type of connection	
Connector face	
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	
finely stranded without wire-end ferrule	
finely stranded with wire-end ferrule	
finely stranded without wire-end ferrule	
Conductor connection cross-section, rigid	
Stripping length	
Rated voltage (AC)	
Rated current	
Ambient temperature (operational)	
Approvals	
Note	

IP20
Polycarbonate PC
Screw connection
Type L
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 4 mm ²
9 mm
250 V
16 A
-5 °C...40 °C
DETNORVER

IP20
Polycarbonate PC
Screw connection
Type I
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 4 mm ²
9 mm
240 V
15 A
-5 °C...40 °C
DETNORVER

Ordering data

	white
	orange
	black
Note	

Type	Qty.	Order No.
IE-FCH-PWS-IT	1	1450810000

Type	Qty.	Order No.
IE-FCH-PWB-AU	1	1450830000

Accessories

FrontCom	
Adapter for mounting rail installation	
Flat blade connector, 6.5 mm	
straight, 4.8 mm, fully insulated	

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

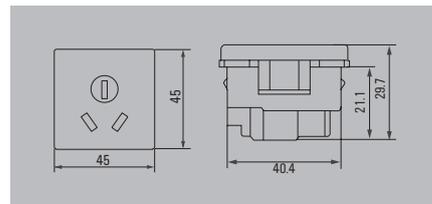
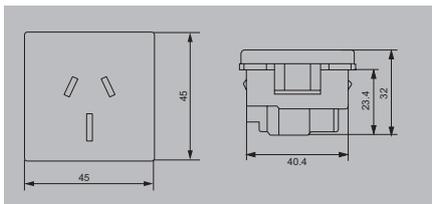
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Power inserts
Power sockets

Australia, 10 A

China



Technical data

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Connector face	Type I
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Stripping length	9 mm
Rated voltage (AC)	240 V
Rated current	10 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Connector face	Type I
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	10 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Connector face	Type I
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
Conductor connection cross-section, rigid	1.5 ... 4 mm ²
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	10 A
Ambient temperature (operational)	-5 °C...40 °C
Approvals	DETNORVER
Note	

Ordering data

	white
	orange
	black
Note	

Type	Qty.	Order No.
IE-FCI-PWB-AU-10A	1	1546590000

Type	Qty.	Order No.
IE-FCI-PWB-CN	1	1450790000

Accessories

FrontCom	Adapter for mounting rail installation
Flat blade connector, 6.5 mm	straight, 4.8 mm, fully insulated

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

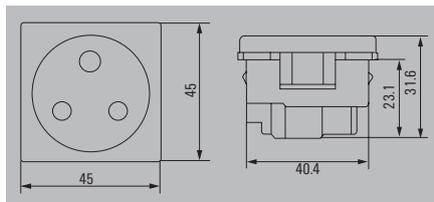
Note	
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Note	
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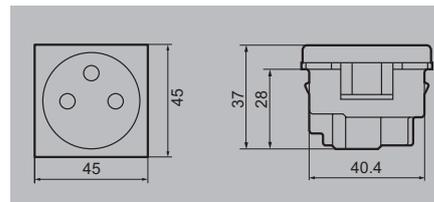
Note	
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Power inserts
Power sockets

India



Israel



Technical data

Protection degree	
Housing main material	
Type of connection	
Connector face	
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	
finely stranded without wire-end ferrule	
finely stranded with wire-end ferrule	
finely stranded without wire-end ferrule	
Conductor connection cross-section, rigid	
Stripping length	
Rated voltage (AC)	
Rated current	
Ambient temperature (operational)	
Approvals	
Note	

IP20
Polycarbonate PC
Screw connection
Type D
1.5 ... 2.5 mm ²
...
1.5 ... 2.5 mm ²
...
1.5 ... 4 mm ²
9 mm
250 V
5 A
-5 °C...40 °C

IP20
PP
Screw connection
Type H
1.5 ... 1.5 mm ²
...
1.5 ... 1.5 mm ²
...
1.5 ... 2.5 mm ²
11 mm
250 V
16 A
-5 °C...40 °C

Ordering data

	white
	orange
	black
Note	

Type	Qty.	Order No.
IE-FCI-PWB-IND	1	2500710000

Type	Qty.	Order No.
IE-FCI-PWB-ISR	1	2531060000

Accessories

FrontCom	
Adapter for mounting rail installation	
Flat blade connector, 6.5 mm	
straight, 4.8 mm, fully insulated	

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

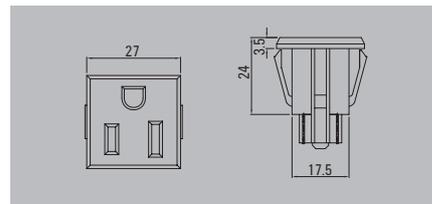
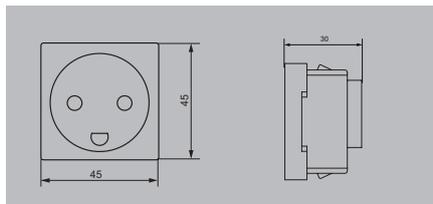
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Power inserts
Power sockets

Denmark

USA



Technical data

Protection degree	
Housing main material	
Type of connection	
Connector face	
Connector standard	
Line connection cross-section	
finely stranded with wire-end ferrule	
finely stranded without wire-end ferrule	
finely stranded with wire-end ferrule	
finely stranded without wire-end ferrule	
Conductor connection cross-section, rigid	
Stripping length	
Rated voltage (AC)	
Rated current	
Ambient temperature (operational)	
Approvals	
Note	

IP20
Polycarbonate PC
PUSH IN
Type K
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
13 mm
250 V
13 A
-5 °C...40

IP20 (front side)
PA 66
Solder connection, FS 4.8 x 0.8
Type B
125 V
15 A
-20 °C...85 °C
CURUS; DETNORVER; UR

Ordering data

	white
	orange
	black
Note	

Type	Qty.	Order No.
IE-FCI-PWB-DK	1	2661340000

Type	Qty.	Order No.
IE-FCI-PWS-US	1	1450800000
For US socket the touch-safe protection is mandatory		

Accessories

FrontCom	Adapter for mounting rail installation
Flat blade connector, 6.5 mm	straight, 4.8 mm, fully insulated

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
VFSKHV/1,5-2,5/485	100	1491920000

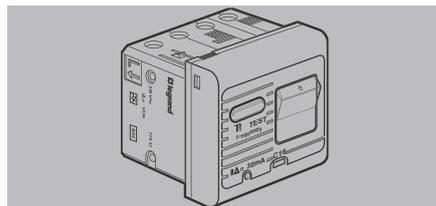
Note

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Power inserts
RCBO

RCBO



Technical data

Ambient temperature (operational)	-5 °C...40
Operating voltage	230 V AC
Rated current	16 A
I Δ m	500 A
I Δ n	30 mA
Triggering characteristic	Typ C
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Note	

Ambient temperature (operational)	-5 °C...40
Operating voltage	230 V AC
Rated current	16 A
I Δ m	500 A
I Δ n	30 mA
Triggering characteristic	Typ C
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Note	

Ordering data

Note

Type	Qty.	Order No.
IE-FCH-PWB-RCBO	1	1534250000

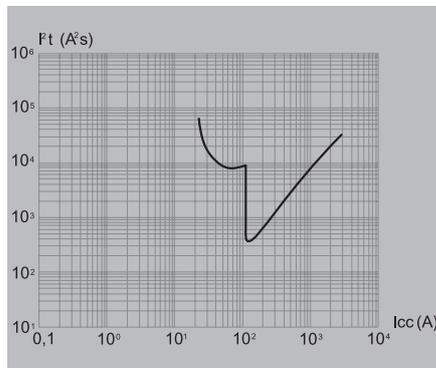
Accessories

FrontCom	Adapter for mounting rail installation
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Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

Note



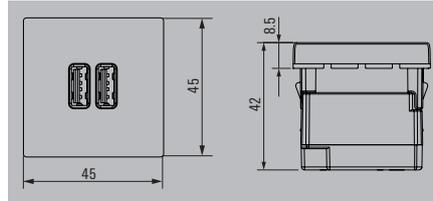
Note

Power inserts

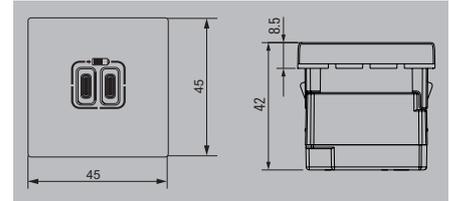
USB charge insert

- IP20
- USB Charger 5 V / 3 A

2 x USB A



2 x USB C



Technical data

Ambient temperature (operational)	0 °C...45 °C
Input voltage	100...240 V
Frequency range	50...60 Hz
Input current	≤ 300 mA
Output voltage	5 V DC
Output current	3 A
Degree of efficiency	80%
Power consumption in standby mode	max. 0.1 W
Standards	EN 60950-1, EN 62684
Protection class	II
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	6 mm
Note	

Ambient temperature (operational)	0 °C...45 °C
Input voltage	100...240 V
Frequency range	50...60 Hz
Input current	≤ 300 mA
Output voltage	5 V DC
Output current	3 A
Degree of efficiency	80%
Power consumption in standby mode	max. 0.1 W
Standards	EN 60950-1, EN 62684
Protection class	II
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	6 mm
Note	

Ambient temperature (operational)	0 °C...45 °C
Input voltage	100...240 V
Frequency range	50...60 Hz
Input current	≤ 300 mA
Output voltage	5 V DC
Output current	3 A
Degree of efficiency	80%
Power consumption in standby mode	max. 0.1 W
Standards	EN 60950-1, EN 62684
Protection class	II
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	6 mm
Note	

Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-2USB-A-5V	1	2505070000
Note		

Type	Qty.	Order No.
IE-FCI-PWB-2USB-A-5V	1	2505070000
Note		

Type	Qty.	Order No.
IE-FCI-PWB-2USB-C-5V	1	2902350000
Note		

Accessories

FrontCom	Adapter for mounting rail installation
IE-DINRAIL-AD-PWB	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

Note

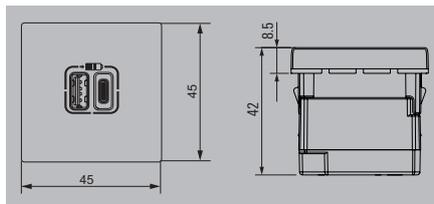
Note

Power inserts

USB charge insert

- IP20
- USB Charger 5 V / 3 A

USB A / USB C



Technical data

Ambient temperature (operational)	0 °C...45 °C
Input voltage	100...240 V
Frequency range	50...60 Hz
Input current	≤ 300 mA
Output voltage	5 V DC
Output current	3 A
Degree of efficiency	80%
Power consumption in standby mode	max. 0.1 W
Standards	EN 60950-1, EN 62684
Protection class	II
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, rigid	1.5 ... 2.5 mm ²
Stripping length	6 mm
Note	

Ordering data

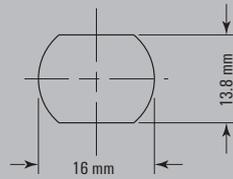
Type	Qty.	Order No.
IE-FCI-PWB-2USB-A/C-5V	1	2902340000
Note		

Accessories

FrontCom	Type	Qty.	Order No.
Adapter for mounting rail installation	IE-DINRAIL-AD-PWB	1	2534680000
Note			

3A fuse

3A fuse



Technical data

Operating voltage	
Rated current	
Type of connection	
Note	

Operating voltage	32 V DC, 250 V AC
Rated current	3 A
Type of connection	Flat-blade receptacles 6.5 mm
Note	

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWCB-3A	1	1543690000

Accessories

Flat blade connector, 6.5 mm	angled
	straight

Type	Qty.	Order No.
WFSKHV/1,5-2,5	100	1491970000
VFSKHV/1,5-2,5/638	100	1491940000

Note

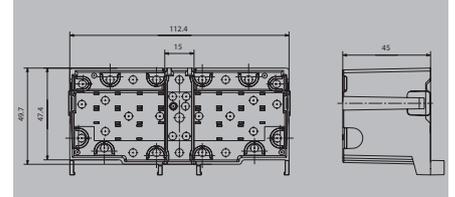
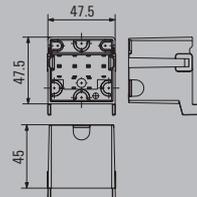
Note

Accessories

Touch-safe protection

Touch-safe protection socket outlet single frame

Touch-safe protection double frame



Technical data

Length x width x height	47.5 / 47.5 / 45 mm
Material	PC
Note	

Length x width x height	112.4 / 47.4 / 45 mm
Material	PC
Note	

Length x width x height	112.4 / 47.4 / 45 mm
Material	PC
Note	

Ordering data

Type	Qty.	Order No.
IE-FC-PWPC	1	1450820000
Note		

Type	Qty.	Order No.
IE-FC-PWPC	1	1450820000
Note		

Type	Qty.	Order No.
IE-FC-DFM-PWPC	1	2971460000
Note		

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Note	
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Note	
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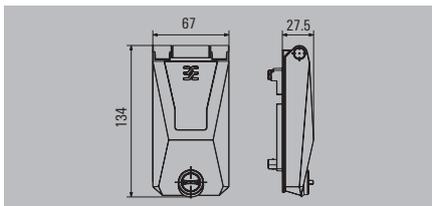
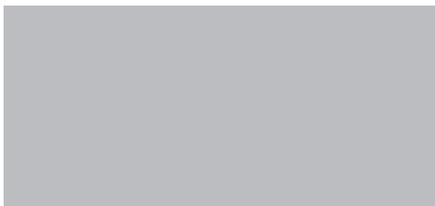
Note	
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Sets

- shielded

2x Data 1x Power DE

Plastic cover



Technical data

Frame
 Insert plate
 Data inserts
 Power inserts
 Rated voltage for socket
 Rated current for socket
 Protection degree
 products included in the set

Plastic cover
 2x data, 1x power, Shielded
 USB 2.0 A/A, RJ45 coupling Cat.6_A
 Socket DE
 250 V
 16 A
 IP65, in closed state
 1450510000;1450550000;1450730000;1019570000;1962840000

Note

Ordering data

shielded
 unshielded

Type	Qty.	Order No.
IE-FC-SET-SPDED001-KN-P	1	1529580000

Note

Accessories

Type	Qty.	Order No.
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Note

Sets

Incl. fixed label: "Service only!", "USB", "Ethernet", "230 V AC"

2x Data, 1x Power



2x Data, 1x Power



Technical data

Frame
Insert plate
Data inserts
Power inserts
Rated voltage for socket
Rated current for socket
Protection degree
products included in the set
Note

Plastic cover, Lockable with key
2x data, 1x power, Shielded
USB 2.0 A/A, RJ45 coupling Cat.6 _x
Socket DE
250 V
16 A
IP65, in closed state
1450520000;1450550000;1450730000;1019570000;1962840000;1450820000
Note

Plastic cover, Lockable with key
2x data, 1x power, Unshielded
USB 2.0 A/A, RJ45 coupling Cat.6 _x
Socket DE
250 V
16 A
IP65, in closed state
1450520000;1450630000;1450730000;1019570000;1962840000;1450820000
Note

Ordering data

shielded
unshielded
Note

Type	Qty.	Order No.
IE-FC-SET-SPDEK001-KY-P	1	1989020000
Note		

Type	Qty.	Order No.
IE-FC-SET-IPDEK001-KY-P	1	1543680000
Note		

Accessories

Type	Qty.	Order No.
Note		

Type	Qty.	Order No.
Note		

Type	Qty.	Order No.
Note		

Note

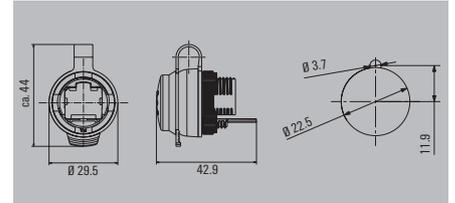
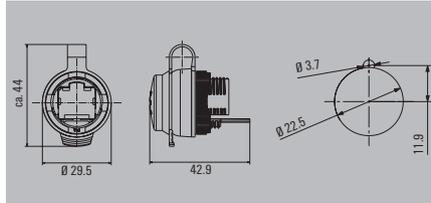
Note

Note

FrontCom® Micro RJ45
Module

8-wire

4-wire



Technical data

Category	
Protection degree	
Housing main material	
Contact surface	
Colour	
Shielding	
Type of mounting	
Plugging cycles	
Connector standard	
Connection 1 / 2	
Wall thickness, min. / max.	
Dust protection cap material	
PoE / PoE+	
Ambient temperature (operational)	
Approvals	
Note	

Cat.6 _n / Class E _n (ISO/IEC 11801 2010)
IP65, in closed state
PA UL 94 V0
Gold over nickel
black
360° shield contact
Cabinet, Distribution box
750
IEC 60603-7-51
RJ45 / IDC
1 mm / 5 mm
EPDM
conforming to IEEE 802.3bt
-40 °C...70 °C
CULUS

Cat.5 (ISO/IEC 11801)
IP65, in closed state
PA UL 94 V0
Gold over nickel
black
360° shield contact
Cabinet, Distribution box
750
IEC 60603-7-51
RJ45 / IDC
1 mm / 5 mm
EPDM
conforming to IEEE 802.3bt
-40 °C...70 °C
CULUS

Ordering data

PROFINET module
TIA-A module
TIA-B module
Note

Type	Qty.	Order No.
IE-FCM-RJ45-FJ-A	10	1018810000
IE-FCM-RJ45-FJ-B	10	1018820000

Type	Qty.	Order No.
IE-FCM-RJ45-FJ-P	10	1018830000

Accessories

Fixing tool	
Marking tags	SwitchMark markers white MultiCard, white
Holder	

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
ESG 9/11 K MC NE WS	200	1857440000
SM-H 27/18 SW	25	1716630000

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
ESG 9/11 K MC NE WS	200	1857440000
SM-H 27/18 SW	25	1716630000

Note

Note

Note

FrontCom® Micro
Coupling

RJ45

8-wire

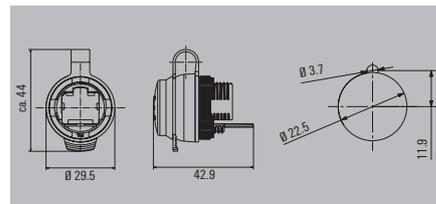
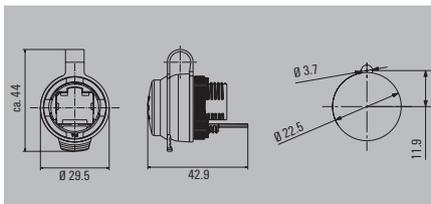


Single Pair Ethernet (SPE)

Pin contacts



SPElink®



Technical data

Category	
Protection degree	IP65, in closed state
Housing main material	PA UL 94 V0
Contact surface	Gold over nickel
Colour	black
Shielding	360° shield contact
Type of mounting	Cabinet, Distribution box
Plugging cycles	750 (RJ45)
Connector standard	IEC 60603-7-51
Connection 1 / 2	RJ45 / RJ45
Wall thickness, min. / max.	1 mm / 5 mm
Dust protection cap material	EPDM
PoE / PoE+	conforming to IEEE 802.3af
Ambient temperature (operational)	-40 °C...70 °C
Approvals	CULUS
Note	

Cat.6 _n / Class E _n (ISO/IEC 11801 2010)	
IP65, in closed state	
PA UL 94 V0	
Gold over nickel	
black	
360° shield contact	
Cabinet, Distribution box	
750 (RJ45)	
IEC 60603-7-51	
RJ45 / RJ45	
1 mm / 5 mm	
EPDM	
conforming to IEEE 802.3af	
-40 °C...70 °C	
CULUS	

T1-B	
IP65, in closed state	
PA UL 94 V0	
Gold over nickel	
black	
360° shield contact	
Cabinet, Distribution box	
750	
IEC 63171-2	
SPE socket acc. to IEC 63171-2 / SPE socket acc. to IEC 63171-2	
1 mm / 5 mm	
EPDM	
PoDL acc. to IEEE 802.3bu / cg	
-40 °C...70 °C	

Ordering data

	Coupling
Note	

Type	Qty.	Order No.
IE-FCM-RJ45-C	10	1018790000

Type	Qty.	Order No.
IE-FCM-SPO-C	10	2870820000

Accessories

Fixing tool	
Marking tags	SwitchMark markers white
Holder	

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000

Note	
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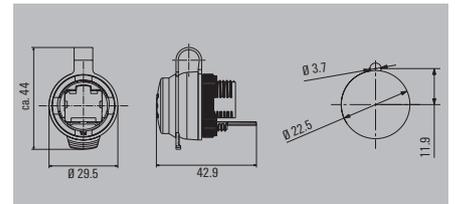
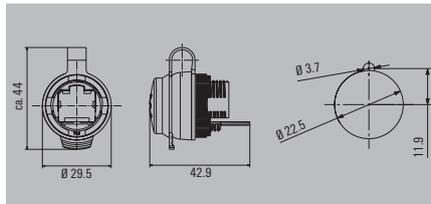
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FrontCom® Micro USB

Coupling AA

Coupling AB



Technical data

Ambient temperature (operational)
Protection degree
Housing main material
Colour
Shielding
Type of mounting
Connector standard
Connection 1 / 2
Dust protection cap material
Wall thickness, min. / max.
Approvals
Note

-40 °C...70 °C
IP65, in closed state
PA UL 94 V0
black
360° shield contact
Cabinet, Distribution box
IEC 61076-3-107
USB A / USB A
EPDM
1 mm / 5 mm
CULUS
Approvals available on request

-40 °C...70 °C
IP65, in closed state
PA UL 94 V0
black
360° shield contact
Cabinet, Distribution box
IEC 61076-3-107
USB A / USB B
EPDM
1 mm / 5 mm
CULUS

Ordering data

USB 2.0
USB 3.0
Note

Type	Qty.	Order No.
IE-FCM-USB-A	10	1018840000
IE-FCM-USB-3.0-A	10	1427960000

Type	Qty.	Order No.
IE-FCM-USB-AB	10	1222550000

Accessories

Fixing tool
Marking tags
SwitchMark markers white
MultiCard, white
Holder
USB cable 2.0
0.5 m
1.0 m
1.5 m
1.8 m
3.0 m
USB cable 3.0
0.5 m
1.8 m
3.0 m
5.0 m
Note

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
ESG 9/11 K MC NE WS	200	1857440000
SM-H 27/18 SW	25	1716630000
IE-USB-A-A-0.5M	1	1993550005
IE-USB-A-A-1.0M	1	1993550010
IE-USB-A-A-1.5M	1	1993550015
IE-USB-A-A-1.8M	1	1993550018
IE-USB-A-A-3.0M	1	1993550030
IE-USB-3.0-A-A-0.5M	1	2581730005
IE-USB-3.0-A-A-1.8M	1	2581730018
IE-USB-3.0-A-A-3M	1	2581730030
IE-USB-3.0-A-A-5M	1	2581730050
Note		

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
ESG 9/11 K MC NE WS	200	1857440000
SM-H 27/18 SW	25	1716630000
Note		

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