

Greater productivity for intralogistics
Robust industrial Pick-to-Light solutions
Let's connect.

Intralogistics



Increase efficiency and avoid errors

Precise picking and feeding for intralogistics

The acceleration of production working processes, flexible adjustments to meet fluctuations in demand and the growing need for customised products are presenting industrial companies with considerable challenges. Intralogistics in particular is looking for solutions that increase productivity and optimize the interaction and communication between all work areas. From the delivery of raw materials to final assembly, all components have to reach their place of deployment more quickly, more efficiently and more reliably. Our Pick-to-Light and Put-to-Light solutions provide valuable support for picking and assembly applications. Using light signals, they guide employees through a sequence of work steps within a picking process that have to be confirmed successively. This approach minimizes potential sources of error and increases efficiency in the process itself.

Digital Pick-to-Light devices (DPD) from Weidmüller allow the combination of decentralised device architecture with a wide range of communication structures and protocols. Together with our additional planning and commissioning services, we can create solutions tailored to customers' specific requirements.

Pick-to-Light and Put-to-Light

Solutions at a glance

Pick-to-Light (P2L) solutions are installed in the picking or withdrawal area. The compartment displays are equipped with a digital display, a capacitive touch button with a bright multi-coloured LED, and optionally an external sensor input. The production information system indicates the storage location that the picker should go to through coloured illuminated LEDs. The display also shows how many parts are to be removed. The touch button or external sensor are used to confirm that a picking step has been completed.

Put-to-Light solutions are deployed in the filling area for empty containers. The functionalities are analogous to those of the Pick-to-Light solution. In this case, the warehouse control system (WCS) sends a command to fill the container. The number of parts that are to be put into the container is shown on the display above the container. Pressing the touch button, or detection by the external sensor, completes the process.



Greater productivity for picking and assembly tasks

Robust P2L systems for harsh industrial environments

Pick-to-Light solutions from Weidmüller have been developed specifically to meet rigorous industrial requirements. The robust enclosures and shielded cabling ensure reliable operation in harsh industrial environments. Attention paid to practical details ensures optimum functionality in day-to-day operation.

Specially developed for industrial deployment

- Robust, protected housings in accordance with IP54 and IK05
- Shielded communication cabling for reliable operation under industrial conditions
- Large capacitive touch pad to insure, for a long time, an effective validation even using work gloves
- Signal display around the touch pad with a bright, multi-colour LED for efficient user interaction
- Connection options for external sensors for hand detection, or parcel detection to provide automatic acknowledgement during the working process
- Flexible adaptation to different device and communication architectures
- Hot swapping functionality for exchange and modification within picking areas while the system is running



Clearly visible operating elements
Bright LEDs and displays ensure optimum visibility at all times. A large, brightly illuminated, coloured touch pad supports user interaction and makes it possible to confirm the picking process with just one hand. The LED is easily visible even from a distance and from different viewing angles, and facilitates the efficient forward planning of the picking sequence.



Optimum protection
The robust IP54 and IK05 housing and shielded cabling ensure reliable operation in harsh industrial environments.



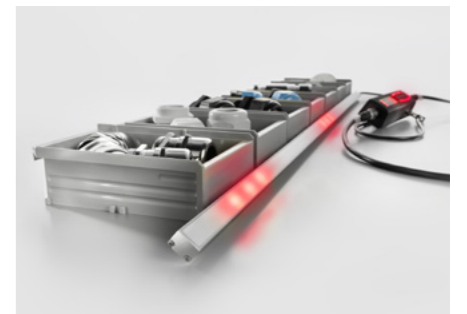
Hot swapping function
The sophisticated electronic design makes it possible to expand or service the bus system easily, even while the system is in operation. The safety of devices and employees is guaranteed.



Flexible deployment
The Plug & Play system has a modular design. Together with the Junction Boxes (JB) that are available as accessories, decentralised device architectures can be established with different communication structures and bus systems, e.g. Modbus/TCP, PROFINET, EtherCAT and EtherNet/IP.



Integration of external sensors
External sensors, e.g. light curtains, can be connected to the system as add-ons. In this way, it is also possible to integrate automated acknowledgement routines into the working process, which can help to drive down error rates even further.



LED Strip control
The notification can be extended by using LED Stripes. Particularly suitable for small boxes, and to offer a flexible replenishment of these boxes. Each LED can be individually controlled in colour, property and brightness.

Ideal for the automotive industry

Proven time and again in practice

Particularly in the automotive industry, it is becoming ever more important to continuously optimise working processes while at the same time ensuring the highest quality. The aim is to avoid errors when preparing components and to improve ergonomics for the workers. This is why Weidmüller Pick-to-Light systems are used more frequently, for example in automotive assembly, where the timely and accurate refilling of the required parts is crucial.

Thanks to its broad know-how in automation, Weidmüller has already supported several vehicle manufacturers and their supply chain when planning and implementing Pick-to-Light systems. Complementary services such as technical support, component certification and training for the responsible teams complete the offering and make Weidmüller the ideal partner for Pick-to-Light solutions in the automotive industry.

Intralogistics solution for multiple areas

Weidmüller simplifies industrial assembly with P2L systems

Intralogistics specialists from all industries are currently striving to replenish their assembly lines as efficiently as possible in order to optimise line productivity. Because production cycle times becoming ever shorter, the demands placed on intralogistics and therefore on the staff in these areas are growing rapidly. From the raw materials stage through to final assembly, the necessary components must be available promptly at the place where they are needed, safely and in line with the process. Intelligent solutions are required along the complete production process to guarantee perfect interaction between the individual working areas. Therefore many companies are concentrating on the advantages offered by automation and digitalisation, such as Pick-to-Light systems.

The ideal solution for modern intralogistics

- An easy-to-implement system for avoiding errors
- Flexible connection to the company's IT system
- Complementary services from planning through to support during operation
- Developed especially for industry and proven in practice

Find out more online:
www.weidmueller.com/p2l



Let's connect.



Our expertise for your requirements

Service connects - worldwide

Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity. Our worldwide network of industrial managers for machine construction, process automation, energy and traffic engineering and for device manufacturers know the challenges you face and can support you in your specific applications.

Training course on technologies, applications and the detailed functionality of our products is available to you locally or at our headquarter in Germany. Our personal support can answer any questions reliably and expertly. Our online services are available 365 day a year around the clock to provide answers to your questions on our products - from user documentation through software to planning tools.

In short: Weidmüller's global service combines our expertise with your requirements.



Professional advice on planning

Our global network of industrial managers has extensive experience in automation technology and electrical connectivity. This expertise allows us to assist you with advice and planning support in order to work with you on resolving the everyday challenges of your applications.



Technology and application training

Industrial automation is moving towards smart production. It faces the challenges of new technologies and applications. Our varied range of training courses develops this knowledge further or provides more in-depth information on the handling of our products and solutions. Our seminars are modular and can be customised. We can train you and your employees in our academy, on your premises if you wish or online in our webinars at any time.



Customised installation





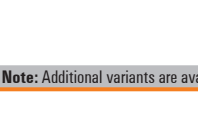
The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions which are tailored to your requirements. We can offer a highly qualified customer-specific production service in our application centre. Whether you need modified products, pre-assembled terminal rails or complete small cabinets: we produce the solutions developed for your application quickly and flexibly.



Product Overview

Devices DPDs and Junction Boxes JB

Devices DPDs and Junction Boxes JB

Type	Type of connection / Digital input type	Display range	Operator front-end	Protocol	Protection degree	Qty.	Order No.
 PTL DPD BASIC SQR FIXATION	M12, Plug / socket	4 digits or chars	large LED, four colours: green, red, blue, orange, capacitive touch button	Modbus RTU	IP54	1	7508001928
 PTL DPD ADVANCED SQR FIXATION	M12, Plug / socket, M8, Socket connector / M8 socket, type: PNP 24 VDC	4 digits or chars	large LED, four colours: green, red, blue, orange, capacitive touch button	Modbus RTU	IP54	1	7508002014
 PTL DPD BASIC RD FIXATION	M12, Plug / socket	4 digits or chars	large LED, four colours: green, red, blue, orange, capacitive touch button	Modbus RTU	IP54	1	7508001876
 PTL DPD ADVANCED RD FIXATION	M12, Plug / socket, M8, Socket connector / M8 socket, type: PNP 24 VDC	4 digits or chars	large LED, four colours: green, red, blue, orange, capacitive touch button	Modbus RTU	IP54	1	7508001907
 PTL JB v.2.1	PROFINet IRT: 2x M12 d-coded (male+female), Modbus RTU + Power (28.8V); 4xM12 a-coded female, Digitale I/O: 1xM23 female, Power: HDC 07A ALU			PROFINet	IP54	1	7504008107










Note: Additional variants are available on demand



Product Overview













Patchcords and Cordsets

BUS cordsets Male/Female

Type	Additional description	Length (m)	Qty.	Order No.
 SAIL-M12GM12G-CD-0.25A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 0.25 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	0.25	1	1964710025
 SAIL-M12GM12G-CD-0.50A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 0.5 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	0.5	1	1964710050
 SAIL-M12GM12G-CD-1.0A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 1 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	1	1	1964710100
 SAIL-M12GM12G-CD-1.5A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 1.5 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	1.5	1	1964710150
 SAIL-M12GM12G-CD-2.0A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 2 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	2	1	1964710200
 SAIL-M12GM12G-CD-2.5A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 2.5 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	2.5	1	1964710250
 SAIL-M12GM12G-CD-3.0A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 3 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	3	1	1964710300
 SAIL-M12GM12G-CD-5.0A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 5 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	5	1	1964710500
 SAIL-M12GM12G-CD-10A	Bus line, Connecting line, M12 / M12, No. of poles: 5, 10 m, straight - socket, straight - plug, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No	10	1	1964711000

Note: Additional variants are available on demand

Ethernet Patch-cords M12M/M12F

Type	Additional description	Length (m)	Qty.	Order No.
 IE-C5DD4UG0010MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 1 m	1	1	1059330010
 IE-C5DD4UG0015MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 1.5 m	1.5	1	1059330015
 IE-C5DD4UG0030MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 3 m	3	1	1059330030
 IE-C5DD4UG0040MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 4 m	4	1	1059330040
 IE-C5DD4UG0050MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 5 m	5	1	1059330050
 IE-C5DD4UG0100MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 10 m	10	1	1059330100
 IE-C5DD4UG0120MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 12 m	12	1	1059330120
 IE-C5DD4UG0150MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 15 m	15	1	1059330150
 IE-C5DD4UG0250MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 25 m	25	1	1059330250
 IE-C5DD4UG0350MSSMCS-E	Dragline cable, PROFINET, M12 D-code - IP 67 straight pin, M12 D-code - IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 35 m	35	1	1059330120
 SAIBM-4/8S-M12-4P D-COD	Sockets prefabricated to customer spec., M12, Female socket, straight	-	1	1892130000
 SAISM-4/8S-M12-4P D-COD	Plugs prefabricated to customer spec., M12, pin, straight	-	1	1892120000

Note: Additional variants are available on demand

Weidmüller – Your partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

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