

Overview Market Innovations | October 2023

Highlights at a glance



Connectivity



Automation & Software



Assembly Service



Software & Services



Electronics



Workplace & Accessories



Solutions





Market and Milestone Innovation | October 2023

Our Highlights at a glance

Terminal blocks

- Klippon® Connect SxC 4 and S2T 2.5 terminal blocks with innovative SNAP IN connection technology
- Klippon® Connect high current terminal blocks of A-Series with PUSH IN-Power connection
- Klippon® Connect W2C and W2T terminal blocks for DCS marshalling
- Klippon® Connect PUSH IN fuse and disconnect terminal blocks with wire side entry

PCB plug-in connectors and PCB plug-in terminals

- OMNIMATE® 4.0 First SNAP IN PCB terminal in pitch 5
- OMNIMATE® 4.0 Hybrid connectors with Single Pair Ethernet

Relay modules & Solid-state relays

- TERMSERIES-compact – universal relays with maximum vibration resistance
- TERMSERIES-compact with fuse carrier

Power supplies

- Family of pre charge units for DC grids

Electronic housings

- u-maker Box – the Raspberry Pi housing from Weidmüller

Controls & Edge

- u-control M-Series

I/O Systems

- u-remote NG – the next-generation backbone bus from u-remote

Tools

- PZ 2.5 – the smallest professional crimping tool for wire end ferrules
- The new stripax® plus – now even easier

Solutions

- SMARTcharge – the intelligent load management system
- PV Next Fireman Switch and Surge Protection in one



Connectivity

Terminal blocks

- [Klippon® Connect SxC 4 and S2T 2.5 terminal blocks with innovative SNAP IN connection technology](#)
- [Klippon® Connect high current terminal blocks of A-Series with PUSH IN-Power connection](#)
- [Klippon® Connect W2C and W2T terminal blocks for DCS marshalling](#)
- [Klippon® Connect PUSH IN fuse and disconnect terminal blocks with wire side entry](#)
- [Klippon® Connect pluggable terminal blocks for 4 plugs in 1.5 mm² and 2.5 mm²](#)

Plug-in connectors

- [PushPull Power Connector with SNAP IN connection technology](#)
- [Battery pole connector in IP67](#)

PCB plug-in connectors and PCB plug-in terminals

- [OMNIMATE® 4.0 First SNAP IN PCB terminal in pitch 5](#)
- [OMNIMATE® 4.0: Hybrid connectors with Single Pair Ethernet](#)
- [OMNIMATE® Data USB-C PCB jacks](#)

Enclosure systems and components

- [Klippon® TB - Portfolio expansion with new sizes](#)



SNAP INTO the future with Klippon® Connect

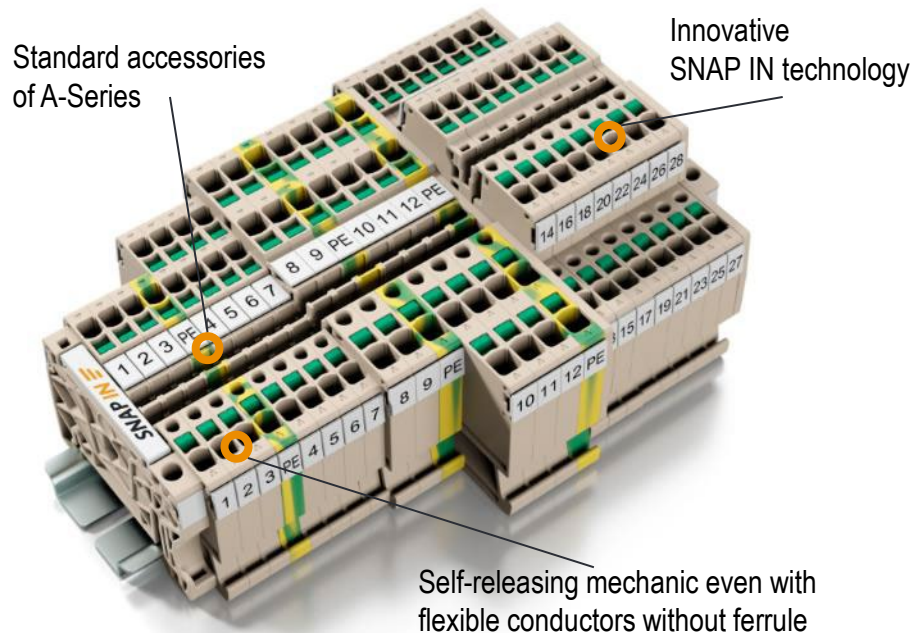
Extension with 1-level 4 mm² and double-level 2.5 mm² SNAP IN terminal blocks

Time is money. For this reason, installation work in control cabinet construction must be carried out ever faster, preferably automated. At the same time, the connections should be permanently reliable, safe and easy to maintain.

The new Klippon® Connect terminal blocks with Weidmüller's revolutionary SNAP IN technology meet all these requirements - and are extremely easy to use: stripped fine-stranded conductors just need to be inserted into the connection point, and the connection point snaps shut with a clearly audible click. The conductor is permanently and reliably contacted. To release the connection, press the green pusher. It couldn't be faster or easier.

[GO TO PRODUCT CATALOGUE](#) 

[SNAP IN Terminal Blocks](#)





Reliable and efficient power supply

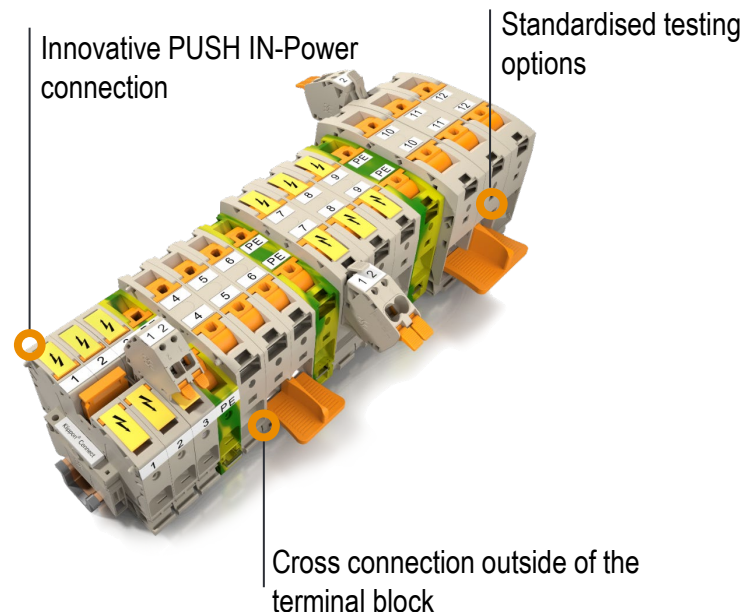
Klippon® Connect high current terminal blocks of A-Series with PUSH IN-Power connection

In today's control cabinet construction, space and wiring time must continually be reduced to remain competitive. Klippon® Connect high-current terminal blocks are a proven solution to achieve this goal. They enable safe and efficient power distribution to power consumers – quickly, easily, and in the smallest possible space. In order to provide even better support for control cabinet construction, we have now expanded the Klippon® Connect product family of the A series.

The new A2C 150/185... versions are suitable for cross-sections from 25 to 185 mm² and feature the innovative PUSH IN-Power connection technology. This means you can use a single convenient connection system for the entire cross-section range and have consistent access to the wide range of accessories of the Klippon® Connect A series.

[GO TO PRODUCT CATALOGUE](#) 

[Klippon® Connect high current terminal blocks of A-Series with PUSH IN-Power connection](#)





More flexibility in signal wiring and signal marshalling

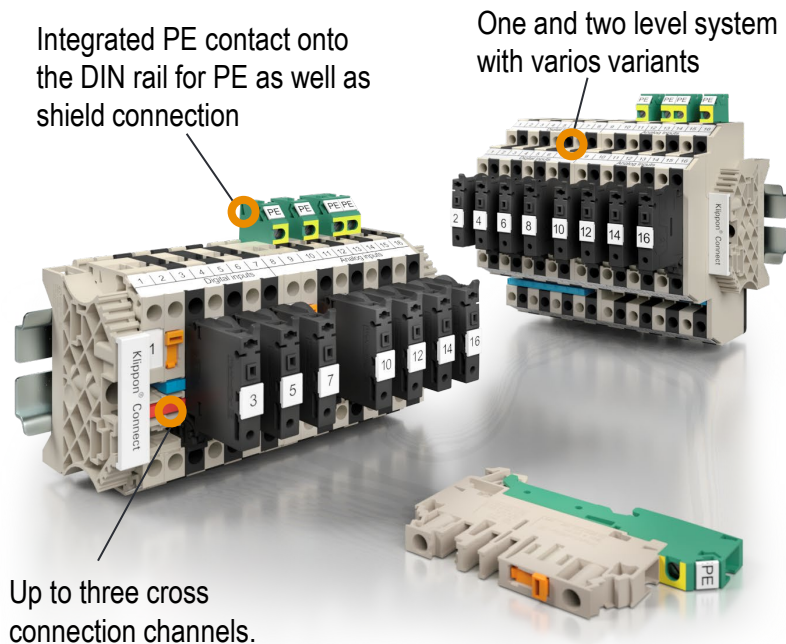
Klippon® Connect W2C and W2T Range signal wiring and signal marshalling

Automation in the process industry requires flexible solutions for complex production processes. Your circuit diagrams are no less complex and often undergo changes shortly before the end. With our new range of DCS marshalling terminal blocks you can solve these challenges. Even a „last minute change“ is feasible for you without having to change the wiring you have already done.

Thanks to the single and double-level arrangement of the terminal blocks, combined with the provision of the four basic functions (continuity, disconnect, fuse, ground), you achieve maximum flexibility when connecting your devices wired in the field. We also offer you an alternative to connecting the shield to PE for your potential-free shielding concepts.

[GO TO PRODUCT CATALOGUE](#) 

[Klippon® Connect W2C and W2T Range for DCS marshalling](#)





Combining the advantages of proven connection technologies

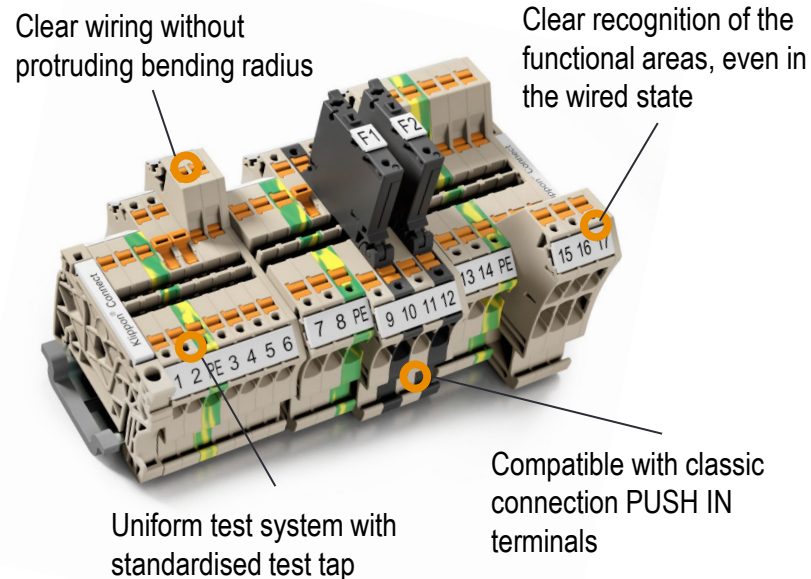
Klippon® Connect PUSH IN fuse and disconnect terminal blocks with wire side entry

Decentralised systems save space in the control cabinet, but the components have to be installed in small, flat distribution boxes. This leads to new wiring challenges.

The new Klippon® Connect terminal blocks with lateral PUSH IN connection combine the advantages of PUSH IN and screw connection technology. Conductors can be connected without a bending radius, without tools. This reduces the installation height and increases clarity, as markings and functional areas remain clearly visible even when wired.

[GO TO PRODUCT CATALOGUE](#)

[Klippon® Connect A-Series with side PUSH IN connection technology](#)



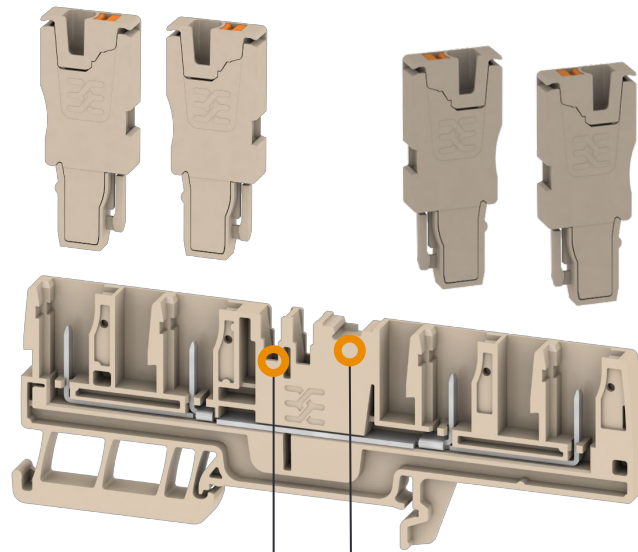


The modular and flexible terminal block plug-in system WeiCoS

Klippon® Connect pluggable terminal blocks for 4 plugs in 1.5 mm² and 2.5 mm²

Some applications demand for a pluggable, modular solution to be more flexible or to facilitate the installation. Where complete functional units have to be prefabricated or replaced, modular and flexible connection systems are required.

Our pluggable terminal blocks can be quickly assembled and are completely factory tested. They provide the possibility for a connection of up to 4 plugs.



Double cross-connection channel

Professional marking

[GO TO PRODUCT CATALOGUE](#)

[Klippon® Connect APGBT](#)



Assemble faster with excellent connection technology

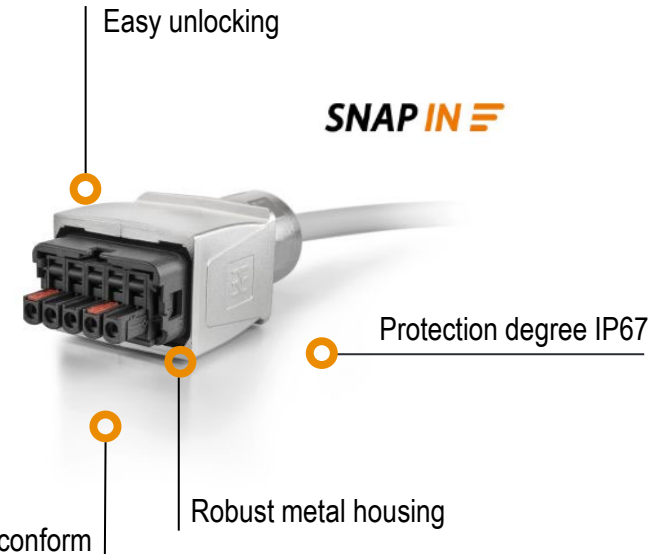
PushPull Power Connector with SNAP IN connection technology

In mechanical engineering, connecting cables have to be produced in large quantities. This requires efficient cable assembly. For 24 V DC power supplies, the PROFINET directive requires PushPull Power connectors according to IEC 61076-3-126.

Our PushPull Power connector now features the revolutionary SNAP IN connection technology. Here, stripped fine-stranded conductors are simply plugged directly into the connector even without a wire end ferrule. With an audible click, a spring mechanism snaps shut and ensures a reliable connection for which no special tools are required. This considerably simplifies and speeds up cable assembly. The technology was awarded the German Innovation Award '22.

[GO TO PRODUCT CATALOGUE](#) 

[Industrial Ethernet Connectors](#)



IEC 61076-3-126 conform



Connect individual battery packs to form an Energy Storage System (ESS)

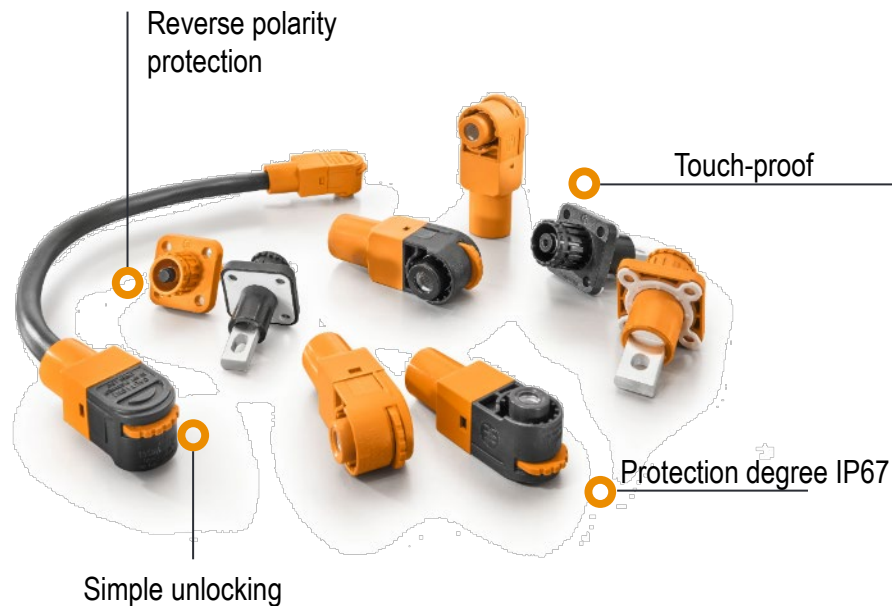
Battery pole connector in IP67

Battery storage systems are playing an increasingly important role in the field of renewable energies. They usually consist of several individual batteries that need to be quick and easy to replace.

The Weidmüller Battery Connector (WBC) makes it possible to connect several individual batteries to an ESS in just a few simple steps – and to disconnect the connections just as quickly if required. For more safety and easy handling, the poles are clearly marked: The positive pole in orange and the negative pole in black. The WBC is available in versions up to 120 A, 200 A and up to 350 A.

[GO TO PRODUCT CATALOGUE](#)

[Battery pole connector in IP67](#)





Connect devices more efficiently – Fast. Flexible. Digital.

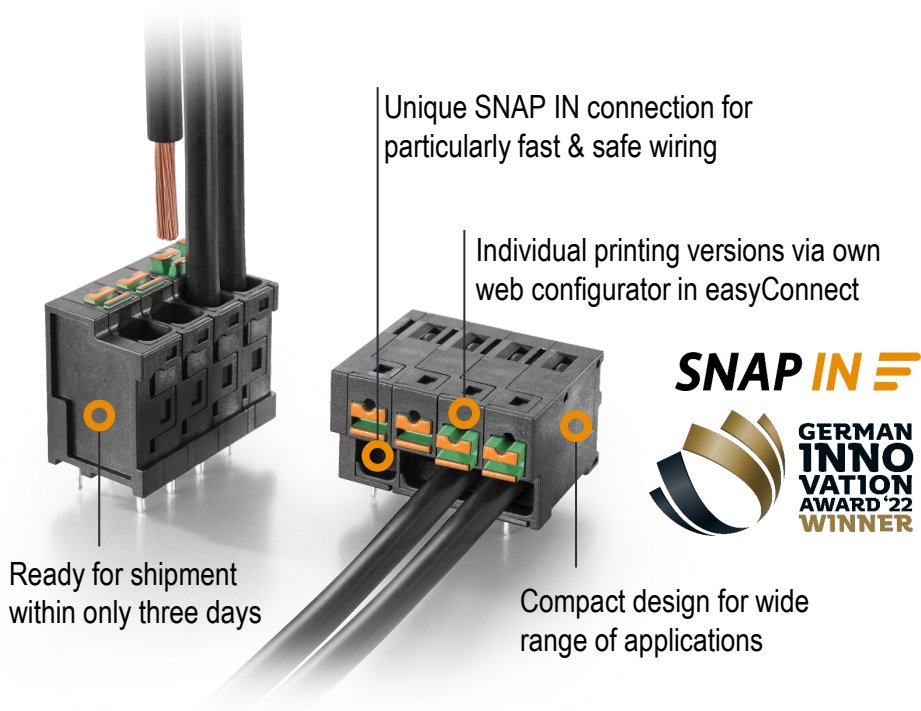
OMNIMATE® 4.0 PCB plug-in terminals with SNAP IN technology

Trendsetting connection solutions are reliable, flexible and enable automated wiring processes. OMNIMATE® 4.0 SNAP IN PCB plug-in terminals stand for efficient wiring and signal transmission in many industrial sectors.

The new PCB plug-in terminals of the MTS 5 product series are extremely compact and enable the fastest signal connection in device connectivity. Thanks to the innovative SNAP IN connection technology, a wide variety of conductors can be connected quickly without tools and wire end ferrules – ideal for automated processes. Due to the modular concept of OMNIMATE® 4.0, the products can be individually configured in the own web configurator and are ready to ship within three days.

[GO TO PRODUCT CATALOGUE](#) 

[OMNIMATE® 4.0](#)





Configure hybrid connectors easily and modularly

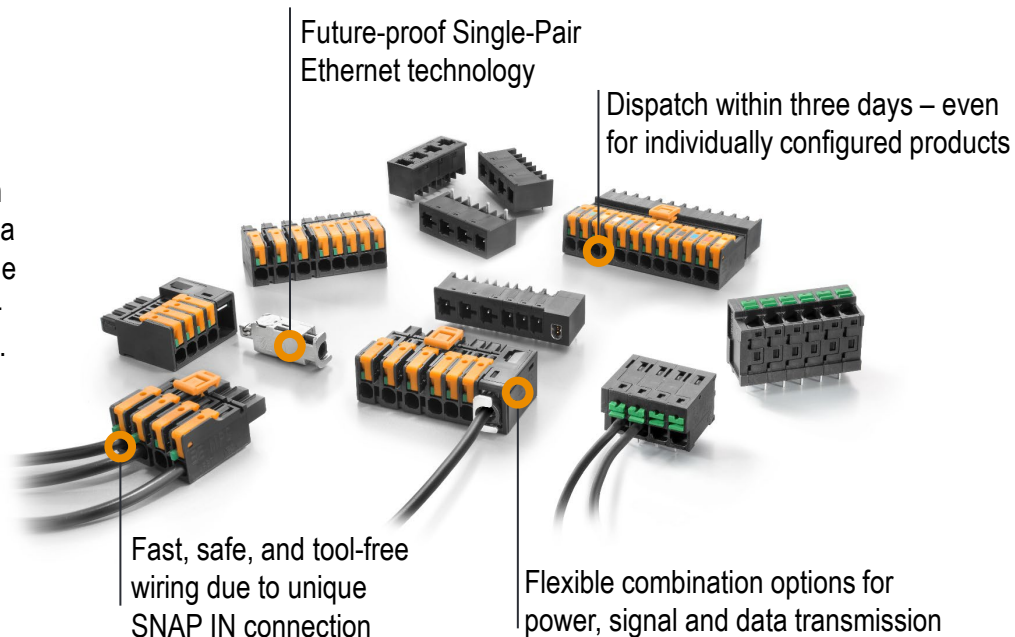
OMNIMATE® 4.0 device interfaces for power, signals, and data

Digital networking in the Industrial IoT is growing continuously. As a result, devices in different application areas more and more require many different interfaces for energy, signals, and data.

OMNIMATE® 4.0 enables the quick and easy configuration of hybrid interfaces to transmit data, signals, and power in a single connector. The modular product design combines the innovative SNAP IN connection technology with the future-oriented transmission standard Single Pair Ethernet (SPE). These hybrid interfaces reduce the cabling effort, simplify maintenance, and accelerate automation processes in many applications.

[GO TO PRODUCT CATALOGUE](#) 

[OMNIMATE® 4.0](#)





Reliable, easy and future-proof USB connection for your device

OMNIMATE® Data USB-C PCB jacks

Due to their many advantages, USB-C sockets are being used increasingly in the electrical industry. We have now expanded the OMNIMATE® Data series with future-proof USB-C PCB sockets – for fast and easy data transmission.

Our new USB-C PCB sockets support the solid USB standard 3.1 and enable future-proof device design with speeds up to 10 Gbit/s. Due to the flexibly selectable outlet directions of 90° and 180°, they can be placed on the PCB in many different ways. The sockets are suitable for SMT/SMD soldering processes and are supplied in packaging suitable for automatic assembly.

[GO TO PRODUCT CATALOGUE](#) 

[OMNIMATE® Data USB jacks](#)

The outlet directions of 180° and 90° enable adaptation to different housing formats

Solid USB-C standard 3.1 for data rates up to 10 Gbit/s



Automation-ready packaging

High durability: up to 10,000 mating cycles possible



More choice of standard enclosures for challenging environments

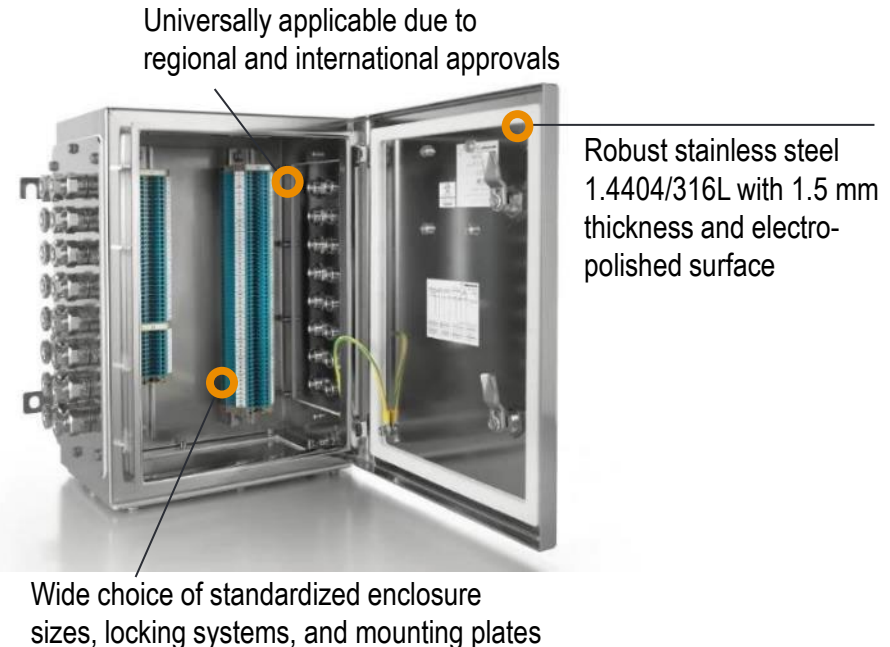
Klippon® TB - Portfolio expansion with new sizes

In hazardous areas and other challenging environments, sensitive and safety-relevant components need particularly reliable protection. Here, stainless steel enclosures are the first choice.

The Klippon® TB enclosure series has excellent performance characteristics and is suitable for the most difficult environmental conditions. The enclosures meet even the most extreme requirements for EX areas, such as those found in the process industry and the power generation sector. We have further improved the successful and market-leading enclosure series, which has been on the market for years, and added additional size variants.

[GO TO PRODUCT CATALOGUE](#) 

Klippon® Protect – Stainless Steel Enclosures





Electronics

Relay modules & solid-state relays

- [TERMSERIES-compact – universal relays with maximum vibration resistance](#)
- [TERMSERIES-compact with fuse carrier](#)
- [Precisely fitting accessories for TERMSERIES-compact](#)
- [TFI-SERIES relays – new with PUSH IN connection technology](#)

Analogue Signal Processing

- [ACT20D process value displays – easy and flexible to use](#)

Power supplies

- [Powerful DC/DC converters for maximum system availability](#)
- [Family of pre charge units for DC grids](#)

Electronics housings

- [u-maker Box – the Raspberry Pi housing from Weidmüller](#)
- [PCB-terminals with PUSH IN technology for OMNIMATE® Housings CH20M6](#)

Lightning and surge protection

- [V-ZPA Fuse Holder – fuse module for 40 mm busbars](#)
- [VARITECTOR Ethernet surge protection VDATA CAT5e](#)
- [VARITECTOR PU AC type I+II lightning arrester](#)



Using the all-rounder in a small space

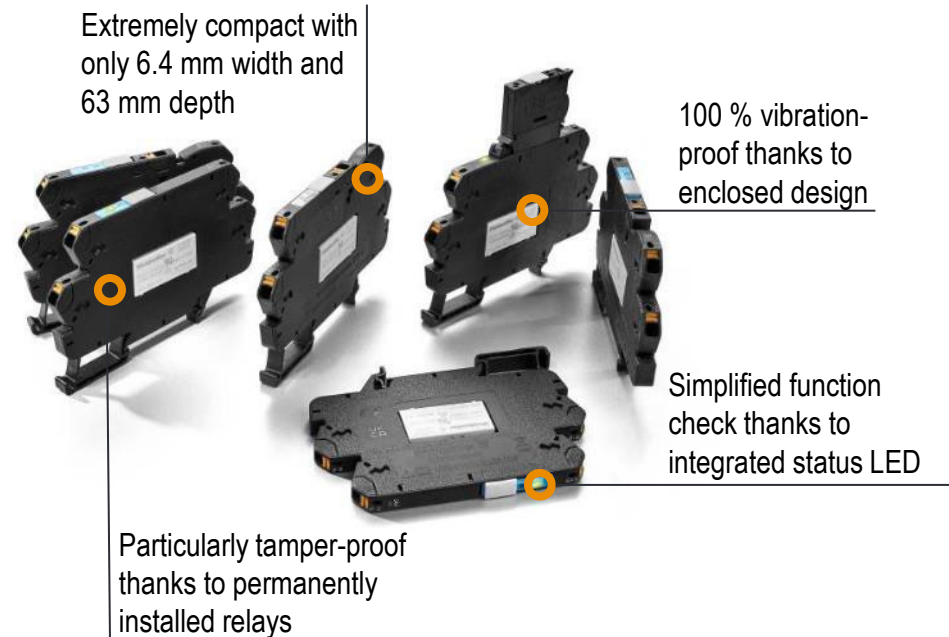
TERMSERIES-compact - universal relay with maximum vibration resistance

To achieve maximum machine and system availability, many relays must also function reliably in environments with strong vibrations. In addition, compact modules for flat control cabinets are required.

TERMSERIES-compact fulfils both demands. The new, ultra-compact complete modules round out the TERMSERIES family. Their relays are integral, which makes them particularly vibration-proof. Due to the slim and, above all, flat design, they can be installed anywhere. And since they have the same contours as the tried-and-tested TERMSERIES, all the accessories of the series can be used – for cross-connections, for example. In this way, comprehensive complete solutions can be realised with the 100 % function-tested relay modules.

[GO TO PRODUCT CATALOGUE](#) 

[TERMSERIES-compact](#)





Combine switching and protection in one relay

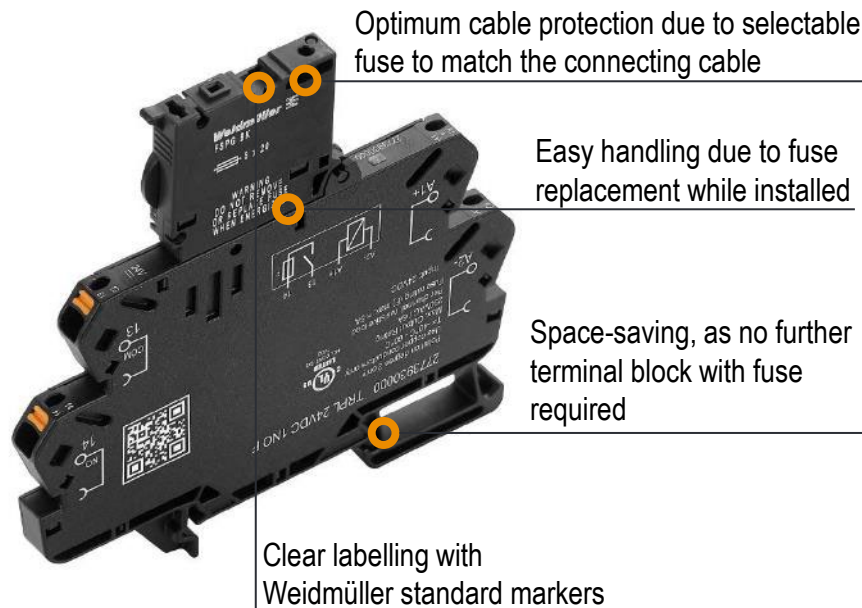
TERMSERIES-compact with fuse carrier

Relays with integrated fuses are suitable for ensuring the reliable functioning of machines and systems and increasing their availability. In the event of faults, they switch off individual line paths to protect the rest of the system.

TERMSERIES-compact with fuse carrier enables simple and particularly efficient integration of fuses, as no additional terminal block with a fuse is required. This saves time during installation and space in the control cabinet. The fuse must be selected to match the connecting line, and the fuse can be changed while the module is installed. The complete module is 100 % function-tested and particularly vibration-resistant due to built-in relays.

[GO TO PRODUCT CATALOGUE](#) 

[TERMSERIES-compact](#)





Increase productivity in control cabinet wiring

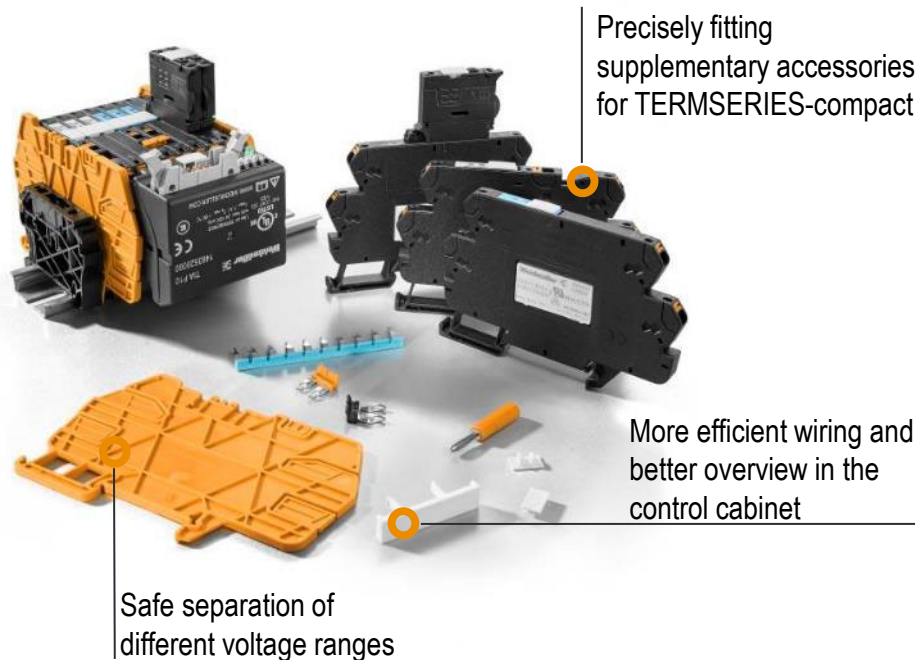
Precisely fitting accessories for TERMSERIES-compact

With TERMSERIES-compact, the well-proven TERMSERIES is extended by a particularly space-saving and vibration-proof variant. In addition to the compatible TERMSERIES accessories, the custom-fit range of accessories makes daily work easier.

To simplify and optimise wiring processes, special feed-in terminals, feed-through terminals, and partition plates have been developed for TERMSERIES-compact. The new feed-in and feed-through terminals increase flexibility in potential distribution and simplify wiring. The height of the partition plates has been adapted to the flatter format of TERMSERIES-compact. They facilitate the structured installation of the relays as well as the separation of different voltage ranges.

[GO TO PRODUCT CATALOGUE](#) 

[TERMSERIES-compact](#)





Compact timing relays wired particularly quickly

TFI-SERIES relays – new with PUSH IN connection technology

Many functions in building and factory automation can be reliably controlled with the timing relays of the TFI-SERIES . Now the proven product series is also available with the time- and cost-saving PUSH IN connection technology.

Four products of the TFI-SERIES are now available with the innovative PUSH IN connection technology. They can be used to cover the most important time-controlled applications in building and factory automation: On and off delay, impulse generator, and multifunction. Besides efficient wiring, the relays are particularly convincing due to their simple configuration by means of rotary switches on the front of the housing. The changeover outputs enable fast error messages and targeted switch-off.

[GO TO PRODUCT CATALOGUE](#) 

[Timing functions](#)

Reliable switching of time-controlled processes in building and factory automation



Simple, fast, and safe connection of different conductor types thanks to PUSH IN technology

Reduction of wiring time by up to 75 %



Always have an eye on your signals

ACT20D process value displays – easy and flexible to use

In many industrial plants, process values such as pressure or temperature must be reliably displayed and monitored. ACT20D process value displays can be used flexibly and complement the proven ACT20 series.

The new display modules can be installed on control panels, closed control cabinets, and even decentrally in the field. ACT20 displays are perfectly matched to the high demands of industrial applications due to their extensive international approvals and wide operating temperature range. Parameterisation is carried out directly on the unit and is easily done via push-buttons.

[GO TO PRODUCT CATALOGUE](#) 

[Analogue signal processing](#)



IP65



Operating temperature range
-20°C to +60°C

Simple installation and
parameterisation



Build power supply systems with regulated DC voltage levels

Powerful DC/DC converters for maximum system availability

Power supplies should guarantee maximum supply reliability and minimum downtime. More complex supply systems and the increase in battery backup solutions require long cables and make DC control voltages more unstable.

The new DC/DC converter compensates for voltage fluctuations, such as those that occur with unregulated power supplies or long cables. With galvanic isolation and protection class III for earth-free systems, the DC/DC converter is particularly suitable for use in independent supply systems. The space-saving module can optimally convert voltage levels, offers above-average power performance, comprehensive safety functions, and a high efficiency of up to 95 %.

[GO TO PRODUCT CATALOGUE](#) 

[DC/DC-converter](#)

Above-average power performance with an efficiency of up to 95 %.



Combinable with our AC/DC power supplies, diode modules, and UPS modules

Very slim design, high serviceability, and extensive safety functions



Switch on DC microgrids in segments, operate and monitor them safely

Pre charge units with many setting and diagnostic options

DC microgrids are becoming increasingly important in industry. They enable an efficient and stable power supply and the simple integration of renewable energies and storage systems - essential for more sustainability and climate neutrality.

Pre charge units enable controlled, sequential ramp-up of industrial DC microgrids. This means that loads such as drives, motors, or complex load circuits can be started one after the other to avoid current peaks. Our pre charge units are available in several performance variants. Operating mode and switch-on delay can be set directly on the device. Further setting and diagnostic options can be selected via the optional communication interface.

[Pre charge units](#)

[DC microgrids](#)

Available in variants for DC sectors with 40, 100, or 500 A

Optional communication interface for parameterisation and diagnosis of unit and DC sector



Connections up to 16 mm² possible

Conforms to the DC Industry V3 system concept



Flexible realisation of ideas and projects

u-maker Box – the Raspberry Pi housing from Weidmüller

The Raspberry Pi single-board computer has long been popular in the "maker scene". It offers flexibility, availability, and community support at low cost.

The u-maker box is the ideal basis for realising your own applications with the Raspberry Pi. The modular and expandable housing impresses with many features. The internal accessories allow electronic components, 3rd party boards, and other components to be installed. The external holder is compatible with simple action cam accessories. This allows the u-maker box to be mounted flexibly in many places or supplemented with external accessories.

[GO TO PRODUCT CATALOGUE](#) 

[u-maker box](#)



Compatible with action cam and other accessories

Modular and expandable

Usable with industrial software



Compact and functional connection of signal applications

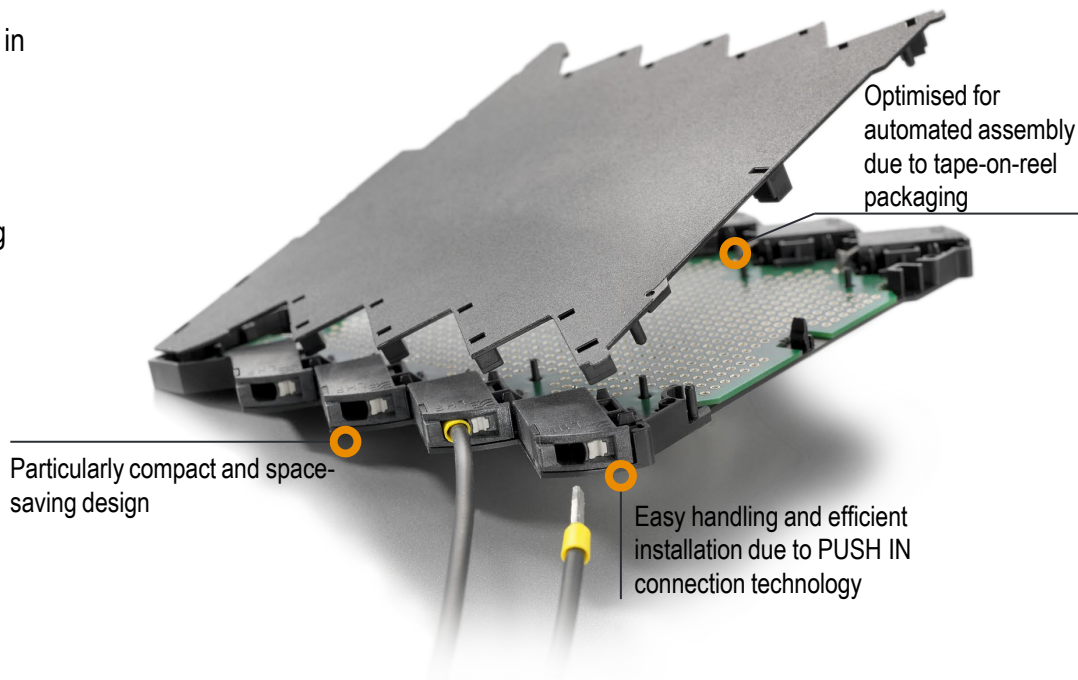
PCB-terminals with PUSH IN technology for OMNIMATE® Housings CH20M6

In controls, I/O systems, and signal interfaces, components today must be as compact as possible in order to accommodate as many functions in the smallest possible space.

The new LHF-SMT signal connectors combine high functionality, vibration resistance, and easy handling in minimal installation space. This is ensured by the space-saving design and the proven PUSH IN connection technology. The PUSH IN connection enables particularly simple, fast, and permanently reliable installation without any tools – optimised for cable cross-sections up to 1.5 mm².

[GO TO PRODUCT CATALOGUE](#) 

LHF-SMT





Perfect protection for intelligent metering systems

V-ZPA Fuse Holder – fuse module for 40 mm busbars

For simple protection of intelligent metering systems such as gateways, control boxes or control units for remote shutdowns, the V-ZPA Fuse Holder provides two standard-compliant voltage taps.

The new V-ZPA Fuse Holders are specially designed for the protection of smart metering systems. They are installed according to the specifications of VDE-AR-N 4100 in the mains-side connection compartment and simply snapped directly onto the 40 mm busbar. The supplied connection cables for modem and gateway simplify ordering and installation. The new devices complement the smart metering range as well as Weidmüller's VARITECTOR ZPA S surge protection portfolio and guarantee optimum protection with a small footprint.

[GO TO PRODUCT CATALOGUE](#) 

[VARITECTOR](#)

Two standard-compliant voltage taps for high flexibility

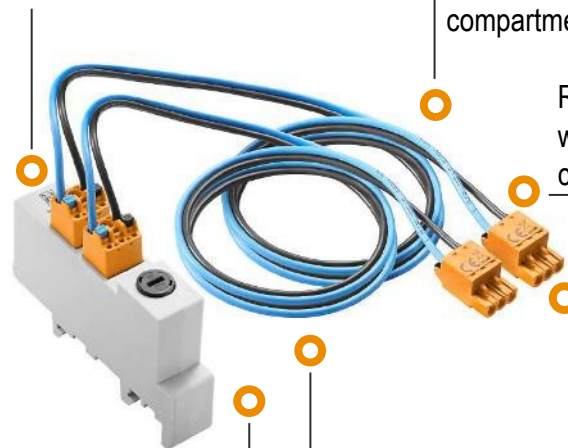
Installation in the mains-side connection compartment

Reliable fuse protection with 6.3 A in a compact design

Included in delivery:
Modem connection cable 80 cm and gateway connection cable 115 cm

Simple snap-on to 5-pole busbar systems

Safety for additional applications such as smart meter gateways





Protect data interfaces effectively against overvoltages

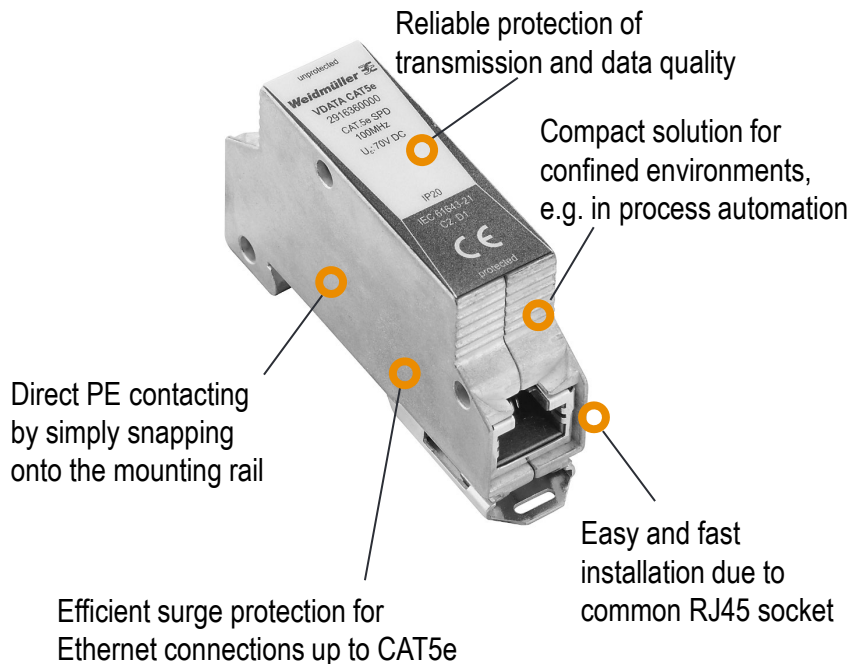
VARITECTOR Ethernet surge protection VDATA CAT5e

Data interfaces are extremely sensitive. So they must be particularly well protected against overvoltages. At the same time, it is essential to ensure there is no negative influence of the protective circuitry on the data transmission.

The new VDATA CAT5e surge protection module has been specially developed to reliably protect CAT5e local area networks (LAN) against surges. The powerful and fast-responding device has minimal attenuation and meet all requirements according to IEC 61643-21. Costly surge damage – e.g. to Ethernet nodes – is prevented without reducing transmission and data quality.

[GO TO PRODUCT CATALOGUE](#)

[VARITECTOR](#)





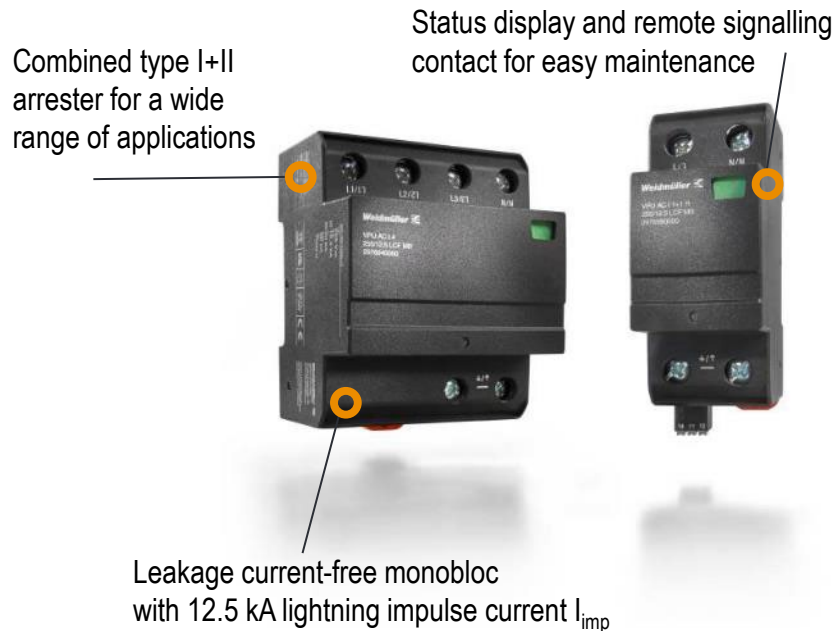
Protect sensitive devices reliably against overvoltage damage

Leakage current-free VARITECTOR PU AC type I+II lightning arrester for 230/400V networks

The growing number of sensitive devices requires ever better lightning and surge protection for power feeds. This applies to industrial plants as well as to private and public buildings and regenerative power generation.

The combined lightning and surge protection devices of the VARITECTOR PU AC type I+II are leakage current-free and particularly compact. They can be used in the pre- and post-metering area according to VDE-AR-N 4100. All devices are energy coordinated and fulfill the performance classes T1, T2 and T3 according to IEC/EN 61643-11 and VDE 0675-11 with a protection level U_p to ≤ 1.5 kV. Application-specific product configurations are available for the different network types.

VARITECTOR





Automation & Software

Controls & Edge

- [u-control M-Series](#)

I/O Systems

- [u-remote NG – the next-generation backbone bus from u-remote](#)
- [u-remote – analogue input modules with HART master functionality](#)
- [CANopen master module with web-based configurator](#)
- [u-remote PWM module for controlling analogue devices](#)

Industrial Ethernet

- [High-performance industrial Gigabit routers](#)
- [EcoLine Series B: Unmanaged switches with PROFINET Class A conformity](#)

Touch Panels

- [u-view Advanced – robust and powerful web terminals](#)



Combining OT and IT in perfection

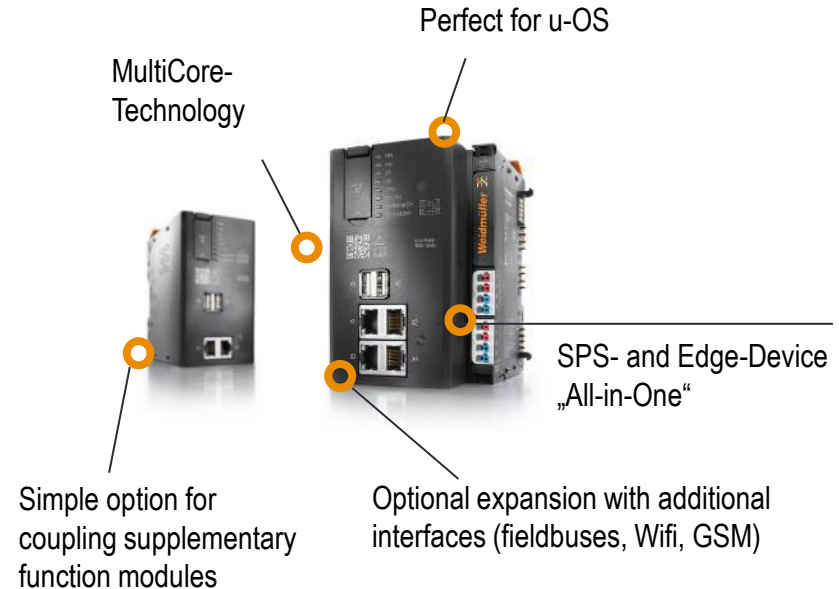
Modular controls for industrial automation and IoT applications

In the course of automation, more and more physical devices are being integrated into networks. This is driving the trend towards convergence of IT and OT systems. The new modular u-control M3000 and M4000 control systems point the way to the future.

With u-control M3000, automation solutions can be perfectly integrated into the IoT. The powerful controller also works as an edge device for providing local information in the network and can be expanded by connecting function modules – ideal for automation and IIoT applications. u-control M4000 also offers four CPU cores, four Ethernet interfaces and more RAM, NV RAM, and flash memory for complex edge computing in automation.

[GO TO PRODUCT CATALOGUE](#) 

[u-control M-Serie](#)





Preparing automation systems for the requirements of the future

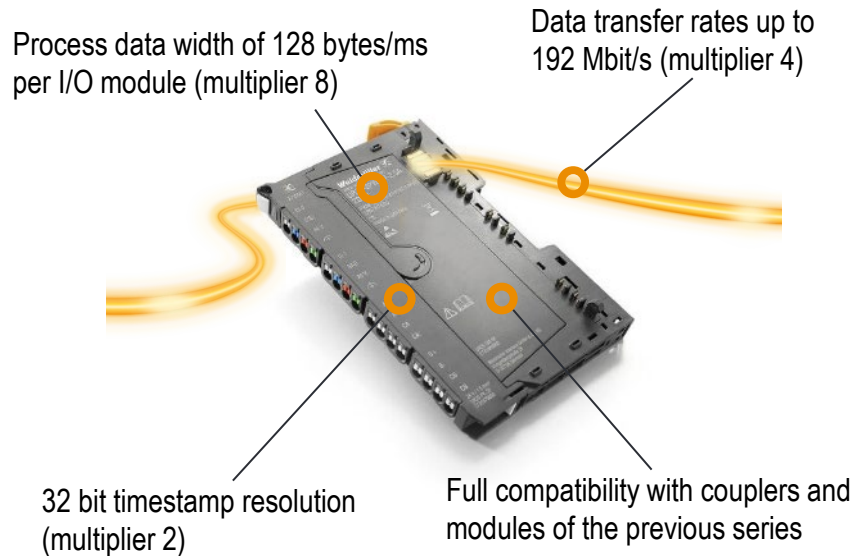
u-remote NG – the next-generation backbone bus from u-remote

The degree of digitalisation and networking in industry is growing. Systems and components must offer ever increasing levels of performance. This is the only way to process the increasing data volume with the required speed and security.

We have further increased the performance of our powerful u-remote backplane bus. As a result, the entire remote I/O system with its fieldbus couplers resp. network gateways, and the various I/O modules is now even more powerful. Users benefit from more flexibility and additional potential for new challenges. Both for future data acquisition and processing, as well as for process and plant control in the field of industrial automation.

[GO TO PRODUCT CATALOGUE](#) 

[10 years of u-remote - The innovation parade up to the Next Generation backplane bus](#)





Collect valuable process and diagnostic data

u-remote – analogue input modules with HART master functionality

HART is a communication protocol used primarily in the process industry. It enables data exchange between intelligent field devices such as actuators, controllers, sensors, and other components.

The u-remote analogue input modules can be used to acquire data from up to four analogue sensors. The modules can be used as HART masters, with each channel using a dedicated HART modem. Up to five HART devices can be connected to each channel via point-to-point or multidrop connection. Mixed operation is also possible.

[GO TO PRODUCT CATALOGUE](#) 

[u-remote I/O-System IP20](#)



Easy system configuration thanks to FDT/DTM technology and Weidmüller configuration software



Point-to-point and multidrop capability with up to five HART devices per channel



Optionally galvanic isolation between the input channels for increased interference immunity

Connection of up to four standard 0-20 mA or 4-20 mA analogue sensors



Cross-product communication via CAN protocol

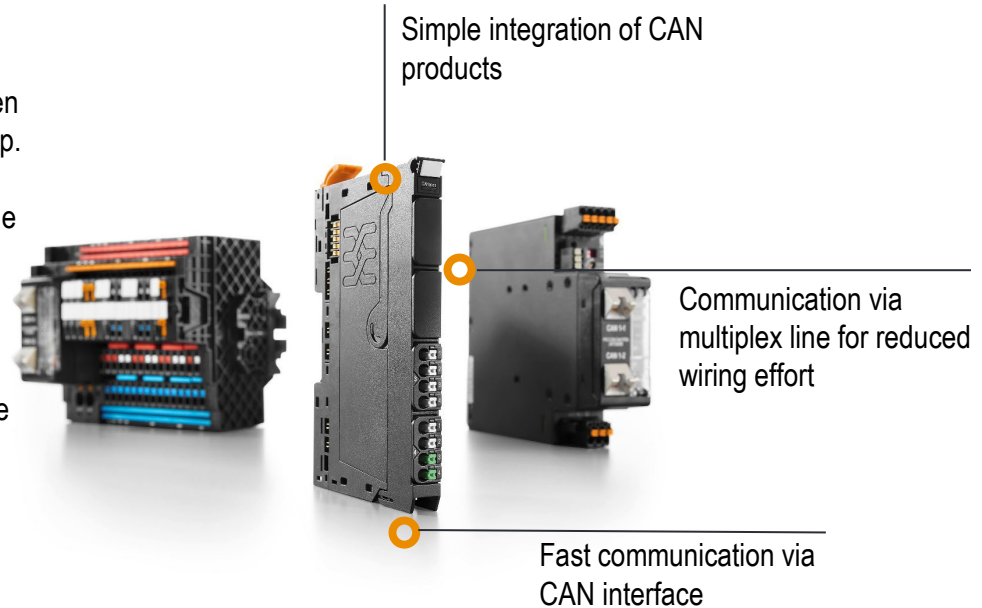
CANopen master module with web-based configurator (article no.: 2489840000)

High speed and manufacturer-independent usability are the advantages of the CANopen standard. The new CANopen master module enables the integration of lower-level CANopen devices and offers a web-based configurator for network setup.

The powerful UR20-1COM-CANOPEN communication module is highly versatile and has an electrically isolated CAN interface. As a CANopen manager or NMT master, it can control a CANopen fieldbus as a subbus in the u-remote system as well as up to 16 CANopen nodes. The CANopen module can be used with Weidmüller components such as the ACT20-C product series and the PRO TOP power supply series as well as with third-party products that follow the CiA 401 specification.

[GO TO PRODUCT CATALOGUE](#) 

[CANopen master module](#)





Reliably control small motors and valves

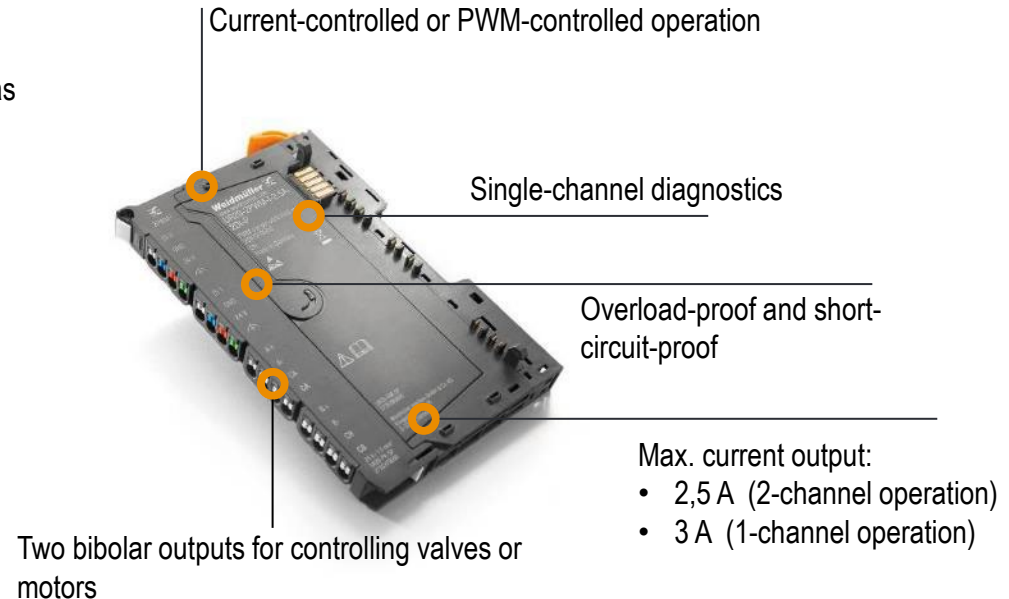
u-remote PWM module for controlling analogue devices

If analogue devices need to be controlled with digital circuits, pulse width modulation (PWM) modules are a suitable solution. Our current-controlled PWM modules are available as a supplement for u-remote systems.

The modules are particularly suitable for controlling small motors with a current requirement of up to 2.5A and can also be used for controlling valve flaps. The PWM modules are adjustable within switching frequencies up to 40 kHz. For motor control, push/pull output stages can also be used to change the direction of rotation, among other things.

[GO TO PRODUCT CATALOGUE](#) 

[PWM module](#)





High-performance industrial Gigabit routers

Security for complex networks with high data throughput

Today, plants use a multitude of communicative services. Therefore, know-how and process security must be secured against attacks. Our industrial routers can separate and secure up to four networks with high data throughput.

The new router series is ideally suited for segmenting high-performance systems and securing them via firewalls. The four gigabit ports can be configured to form separate networks and the powerful processor enables high data rates for complex applications. In this way, the machine network can be secured, a DMZ can be set up and a connection to a production network can be realised with just one device. The simple remote access via u-link also reduces the TCO in the long term.

[GO TO PRODUCT CATALOGUE](#) 

[Industrial Ethernet](#)

High performant:
up to 90 Mbit/s VPN and
700 Mbit/s LAN/WAN
data throughput

Up to 4 independent and single secured
networks for many plant networks or
DMZ's

Integrated cellular
modem for Europe or
World region

Extensive feature
set and u-link
implemented





Space-saving and cost-efficient use of switches

EcoLine Series B: Unmanaged switches with PROFINET Class A conformity

Industrial networks need fast and secure data transmission. The EcoLine Series B unmanaged switches were developed for the reliable forwarding of data packets in automation technology and building automation.

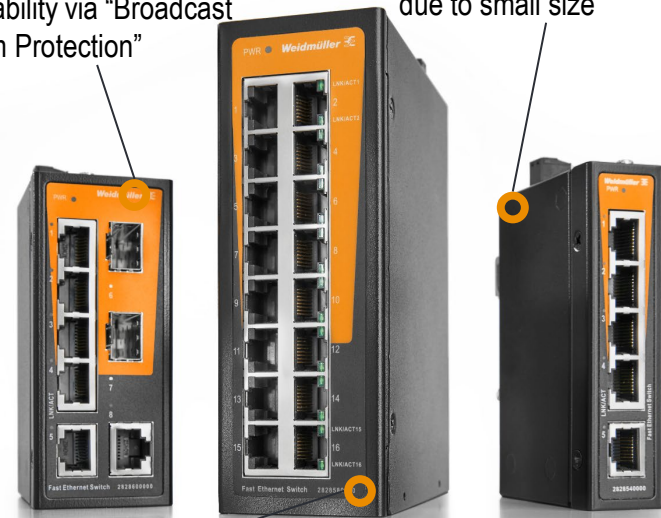
EcoLine Series B products are particularly space-saving and energy-efficient. Their robust metal housing ensures high reliability and a long service life. To ensure optimal network performance, the "Quality of Service" and "Broadcast Storm Protection" functions can be switched on and off individually. This also makes them suitable for use in PROFINET networks.

[GO TO PRODUCT CATALOGUE](#) 

[Industrial Ethernet Unmanaged Switches](#)

Increased network availability via "Broadcast Storm Protection"

Space-saving installation due to small size



PROFINET Conformance Class A through QoS functionality



Effective factory management

u-view Advanced – robust and powerful web terminals

In many industrial applications, touch panels with web access are an easy and intuitive way to retrieve important information, control processes, and much more. This is where u-view Advanced touch panels are the perfect solution.

The powerful ARM-based touch panels provide web-based access to control and IOT systems. They are available in four different sizes and are equally suitable for convenient visualisation and user-friendly input. The touch panels offer high resolution, brilliant colour reproduction, wide viewing angles, and high brightness. At the same time, they achieve success through high-resolution capacitive touch and gesture control.

[GO TO PRODUCT CATALOGUE](#) 

[Web-Terminal with high Performance and Connectivity](#)



Lots of performance

Future-proof design

Dynamic web browser



Workplace & Accessories

Tools

- The new cutting tool KT Mini
- PZ 2.5 – the smallest professional crimping tool for wire end ferrules
- The new stripax[®] plus – now even easier

Markers

- SFC – SlimFix Clip MultiCard with two labelling fields
- MultiMark: perfect marking solutions for the entire cabinet

Industry Lights

- Lighting systems WIL-S, WIL-L and WIL-E
- LED industrial lights for self-assembly - with and without battery



A better cut – a more reliable connection

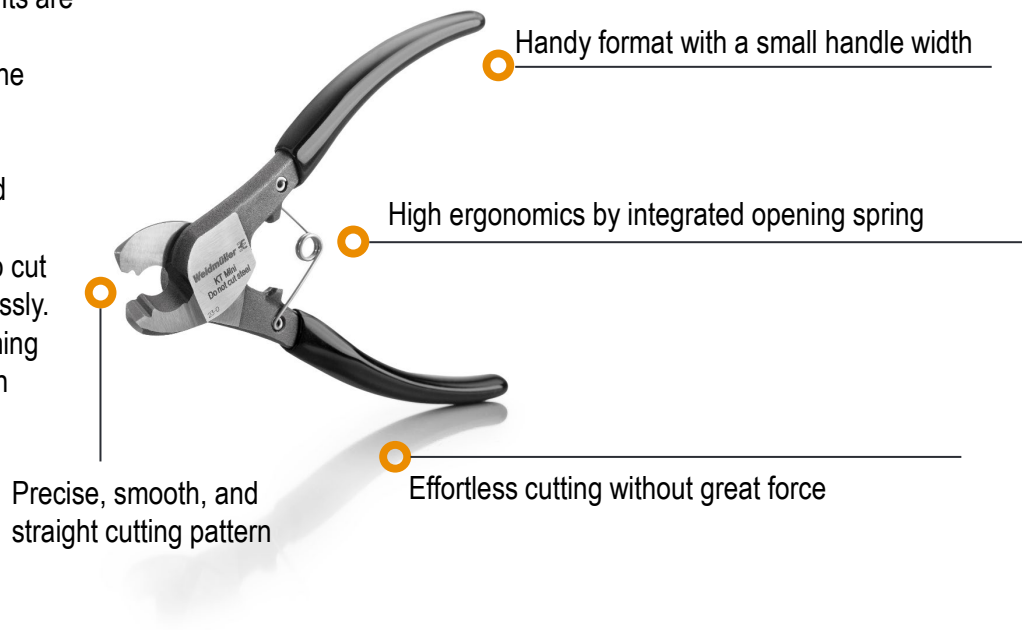
The new cutting tool KT Mini

Connections between electrical and electronic components are made with a wide variety of cables and wires today. The reliability of these connections depends significantly on the quality of the cutting process.

In order to optimally prepare the most diverse cables and wires for connection or crimping processes, we have developed the new KT Mini cutting tool. It can be used to cut aluminum and copper cables up to 6 mm² (class) effortlessly. The cut is precise, smooth, and straight – without deforming the conductor. Because the two cutting edges cross each other similar to scissors, the cut is staggered. This considerably reduces the amount of force required.

[GO TO PRODUCT CATALOGUE](#) 

[KT MINI](#)





The handiest way to crimp

PZ 2.5 – the smallest professional crimping tool for wire end ferrules

In control cabinet construction, cables of the most diverse cross-sections are fitted with wire end ferrules. On average, however, 90 % of these connections are in a cross-section range of 2.5 mm² and smaller.

With the PZ 2.5, Weidmüller has developed a compact crimping tool especially for wire-end ferrules in the cross-section range from 0.14 to 2.5 mm². By focusing on small cross-sections, it was possible to keep the size, weight, opening width, and actuating force of the new tool small – without compromising on crimp quality. The result is currently the smallest professional crimping tool for wire end ferrules on the market.

[GO TO PRODUCT CATALOGUE](#) 

[Weidmüller Crimping Tools](#)





Cut it. Strip it. Crimp it.

The new stripax[®] plus – now even easier

In field operations, there is often little space in the toolbox. That's why multifunctional tools like our stripax[®] plus are useful. With this tool, cutting, stripping, and crimping are quick and easy.

We have now completely revised our well-known and proven multifunctional tool. The new stripax[®] plus can cut, strip, and crimp single wires in the cross-section range from 0.5 to 2.5 mm². The wire-end ferrules are stored in a magazine in the handle and are automatically transported to the crimping die. Adjustments to different cross-sections are made automatically so that no manual adjustment is required.

[GO TO PRODUCT CATALOGUE](#) 

[STRIPAX PLUS 2.5](#)

Cutting



Stripping



Crimping





Provide conductor markings with additional information

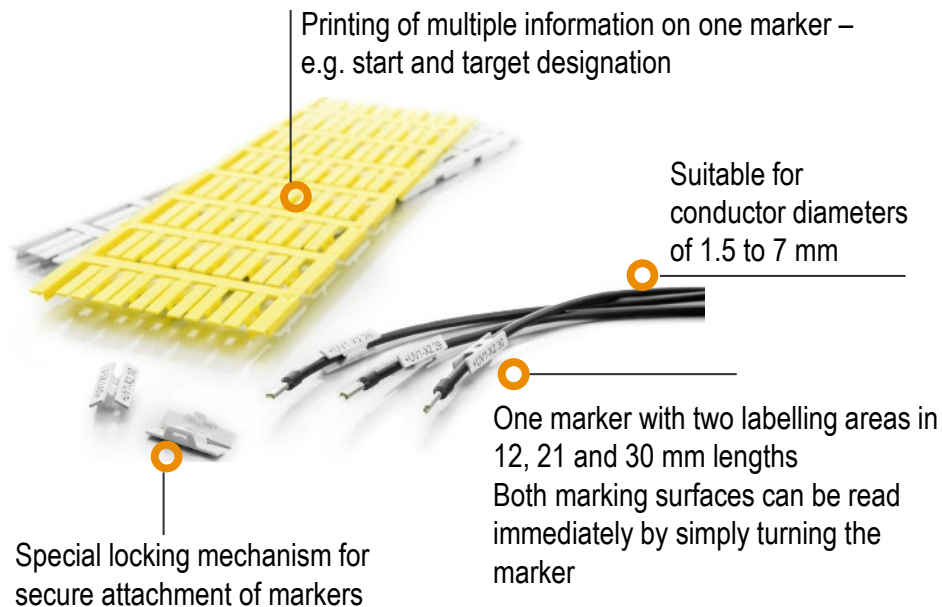
SFC – SlimFix Clip MultiCard with two labelling fields

For conductor markers, it is often required to quickly read the start and destination designation of the respective conductor. Here it makes sense to print both data directly on a marker.

The new SFC-DS markers are designed as MultiCards and are suitable for direct printing with our PrintJet printing system. Their two labelling areas allow multiple data to be printed on a single marker. The print data can be imported directly from CAE projects into the M-Print® PRO marking software. After printing, the markers are placed around the conductor and securely fixed with a special locking mechanism.

[GO TO PRODUCT CATALOGUE](#)

[SFC-DS](#)





Fast and economical marking

MultiMark: Marking systems for the entire cabinet

Optimally structured and sustainable labelling in the control cabinet makes work easier and over time saves substantial costs. With our MultiMark marking system, we provide you with well thought-out products for all marking tasks.

This includes fast and reliable solutions for every control cabinet. One example of this are our new label variants, which can be printed and applied particularly quickly. They meet the highest requirements for durability and adhesive properties. Especially for PV applications, we also offer extremely UV-resistant labels. . .

[GO TO PRODUCT CATALOGUE](#) 

[MultiMark](#)





Perfect illumination of machines and industrial environments

WIL-S, WIL-L, and WIL-E lighting systems

Lighting systems for machines and industrial environments must provide excellent illumination and also meet high requirements in terms of safety and durability. Our luminaire series WIL-S, WIL-L, and WIL-E are available for this purpose.

Luminaires of the WIL series provide homogeneous illumination with 5,700 K. They are specially designed for machines and industrial environments and available in standard and premium versions. Both individual and series connections are made via classic round plug connectors. The luminaires of the WIL series are protected from environmental influences by special LED covers. Rotatable mounting brackets facilitate mounting and adjustment of the direction of light.



[GO TO PRODUCT CATALOGUE](#) 

[WIL - Weidmüller Industry Light](#)



Powerful general lighting for wind turbines and more

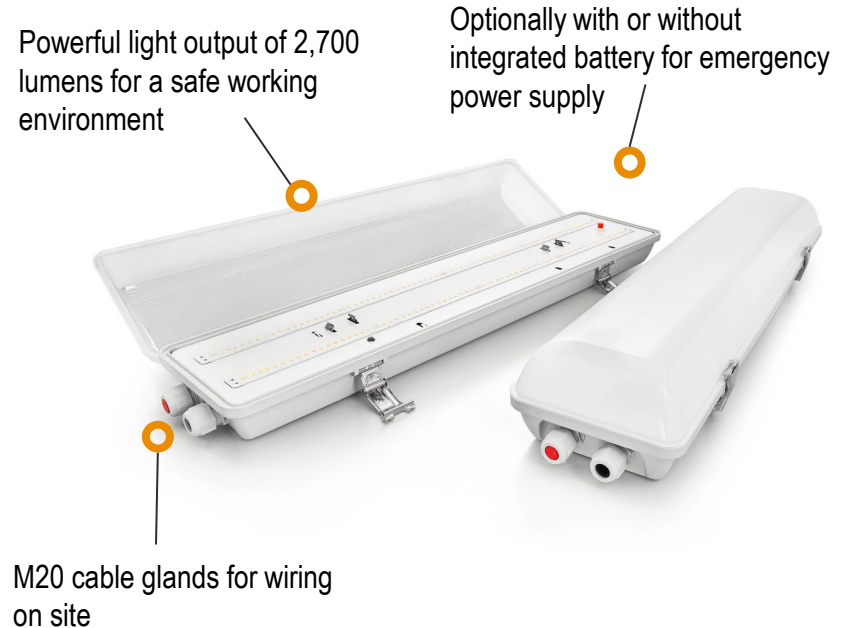
WITL – LED industrial lights for self-assembly, with and without battery

Good comprehensive lighting helps you to perform installation and maintenance work faster, safer, and more error-free. With our individually placeable industrial luminaires, you bring light wherever it is needed.

The new WITL is a powerful linear luminaire with LED technology. It was primarily designed for tower and nacelle lighting of wind turbines, but is also suitable for room lighting in many other applications. With 2,700 lumens, it provides excellent overall illumination. The robust design and IP65 protection make it almost indestructible. The WITL is available with and without an integrated battery – depending on whether an emergency power function is required.

[GO TO PRODUCT CATALOGUE](#) 

[WITL](#)





Assembly Service

Assembled terminal strips

- Standardised terminal rails for main distribution in buildings



Simply more efficient

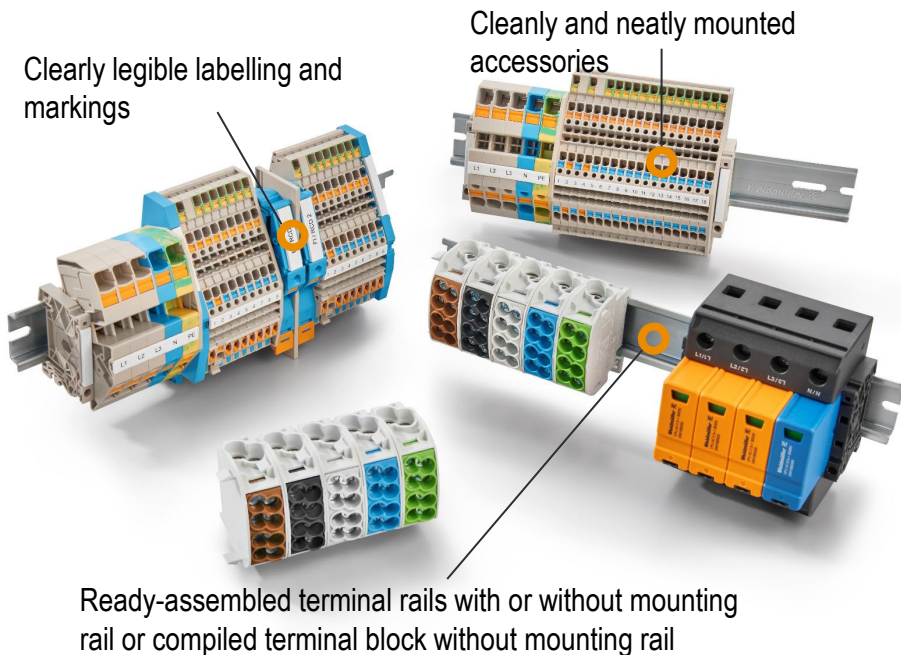
Standardised terminal rails for main distribution in buildings

Terminal rails are almost always installed in the distribution cabinets of building installations. They are needed, for example, for wiring the Feed- In and for connecting AC or three-phase circuits.

Because terminal rails often fulfil the same functions and carry similar components, we offer standardised terminal rails for building installations. They can be ordered via a uniform article number and are delivered ready for installation. Our terminal rails can be mounted in the distribution cabinet without further preparation, so that wiring can begin immediately. Plugging in supplementary accessories or labelling markers on site is not necessary.

[GO TO PRODUCT CATALOGUE](#) 

Terminal rails for building installation



Clearly legible labelling and markings

Cleanly and neatly mounted accessories

Ready-assembled terminal rails with or without mounting rail or compiled terminal block without mounting rail



Solutions

e-mobility

- Quality DC charging cables in small power classes up to 50 kW/80 A
- SMARTcharge – the intelligent load management system

Photovoltaic

- PV Next Fireman Switch and Surge Protection in one



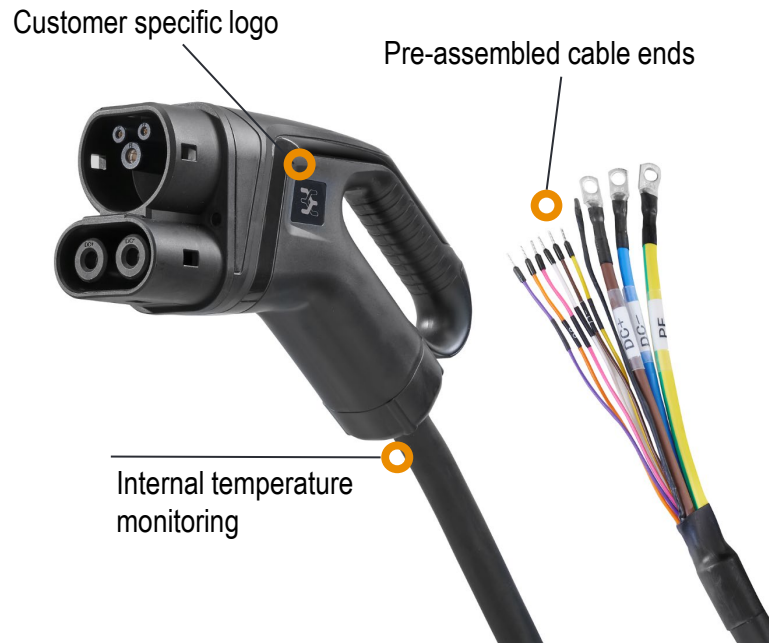
Simple fast charging

Quality DC charging cables in small power classes up to 50 kW/80 A

E-mobility is picking up speed. In this context, reliable and robust OEM charging cables for DC charging stations are needed that meet even high manufacturer requirements in terms of quality and performance.

Our OEM-quality DC charging cables comply with the Mode 4 e-mobility standard. They have a marketable cable length of 5 metres and are equipped with a CCS-2 connector on the vehicle side. The ergonomic design allows a comfortable handling. On the charging box or charging station side, there is an open conductor end with pre-assembled wires. The cables have been specially adapted to the requirements of DC wallbox and charging station manufacturers and can be provided with a customer logo on request.

[GO TO PRODUCT CATALOGUE](#) 





Easily set up, monitor, and manage your charging networks

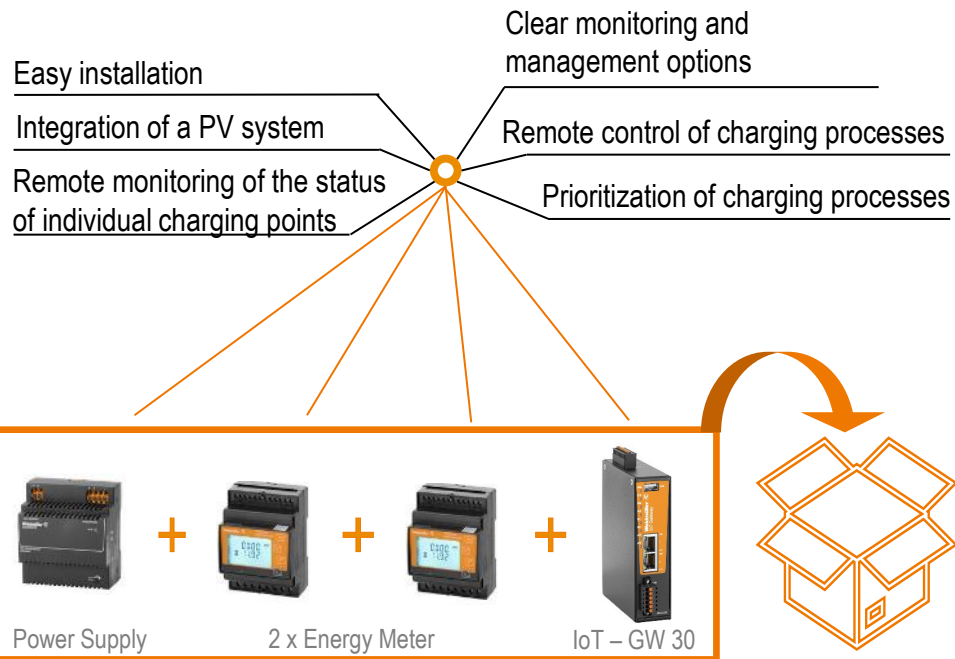
SMARTcharge – the intelligent load management system

Electric vehicles are becoming increasingly popular. But the necessary charging infrastructure poses major challenges for grid connections. To avoid high peak loads and expensive blackouts, we have developed SMARTcharge.

The intelligent load management tool automatically ensures smart distribution of the available electricity and ensures electric vehicles are charged in a flash. User-friendly monitoring and management options increase the overview and make it easier to control a charging network. Installing SMARTcharge is also simple, as the intuitive installation guide tells you exactly what to do. This way, the system is set up and ready for use in no time at all.

[GO TO PRODUCT CATALOGUE](#) 

[e-mobility](#)





Protecting PV installations against overvoltage and automatic shot off in case a fire

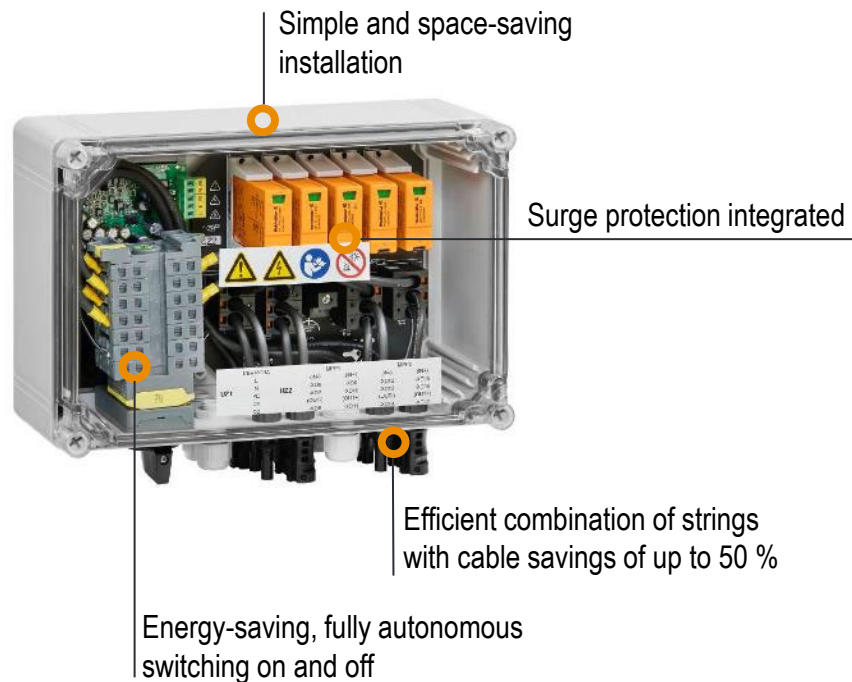
PV Next Fireman Switch for safe remote shutdown

Rooftop photovoltaic systems require a disconnection device near the PV modules that is connected to the power supply in the house. This allows the fire brigade to carry out extinguishing work in an emergency without being unnecessarily endangered.

The new PV Next Fireman Switch combines strings extremely space-saving, protects against overvoltages and can reliably disconnect them in the event of a fire. The current flow from the photovoltaic modules is interrupted as soon as the power supply inside or outside the house is switched off. This enables the fire brigade to work safely, and fires can be extinguished more quickly. In contrast to other solutions, electricity is only consumed during the switching process.

[GO TO PRODUCT CATALOGUE](#) 

[PV Next Fireman Switch](#)





Software & Services

- [Weidmüller Configurator \(WMC\)](#)
- [M-Print® PRO / M-Print® PRO eCAD](#)
- [Wire Processing Center \(WPC\)](#)
- [WebVis](#)

Software & Services



Digital data consistency with software solutions from Weidmüller

Weidmüller Configurator (WMC)

- NEW CSV File Import Option – makes imports from every system possible
- Complete new developed EPLAN Interface plug in
- No more length limitations in Fast Delivery mounting rails

> Website

M-Print® PRO / M-Print® PRO eCAD

- Integrated LPC App for user-guided labeling processes
- New marker configurations for SFC-DS and the MultiMark expansion
- New M-Print® PRO eCAD interface to Eplan 2024

> Website

Wire Processing Center (WPC)

- Optimised modularity and convenient one-piece-flow processing within cable confectioning
- Increased options in planning software WPC-Tool
- Software-guided wire preparation for various conductor end treatments

> Website

Software & Services



The new BLADEcontrol®
WebVis
Your rotor blades always in
sight

WebVis

- Intuitive Dashboard with new functions
- Direct contact with our monitoring experts
- Fast and targeted condition monitoring

> Sharepoint

> Website