

You're striving towards new solutions
We're presenting the best connections of 2014/15
Let's connect.



Weidmüller 



Practical connectivity for your industry

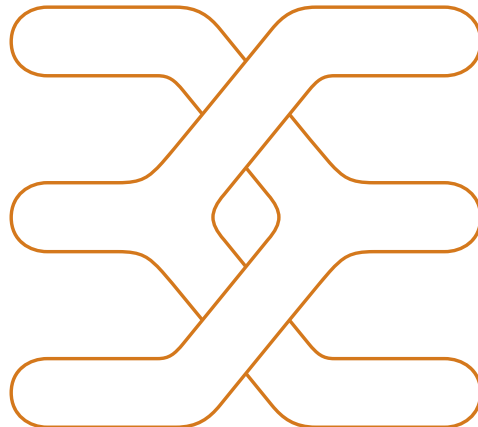
Our Industrial Connectivity innovations

»When creating our innovations, we never lose sight of your future requirements. This is how we shape the industrial connectivity market over the long term.«

Industrial Connectivity means more to us than just connectivity, technology and electronics. The profound knowledge we have of our focus industries and our customer's specific applications translates into practical advisory skills and gives rise to solution-oriented product concepts. We have compiled current evidence of this for you in this catalogue – in the shape of our product innovations.

Find out, among other things, how u-remote – our innovative real-time I/O solution – generates maximum efficiency in your projects. With unique features, like the highest connection density on the market, you can exploit your full potential. Our new firewall/NAT router ensures secure communication with simpler addressing by efficiently integrating equivalent IP subnetworks. And it is also efficiency that makes FrontCom® Vario especially convincing. The new dimension of service interfaces combines power, signal and data transmission on half the space.

Find out about these innovations and more besides on the following pages.
Let's connect.





At home in your industries

We establish the best connections



Growing technological requirements, such as energy efficiency or cutting lifecycle costs, are industrial challenges – and decisive success factors at the same time. We combine sound industrial know-how with many years of development-related expertise, and thus create flexible, forward-looking connection solutions that grow with the needs of our dynamic markets.



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



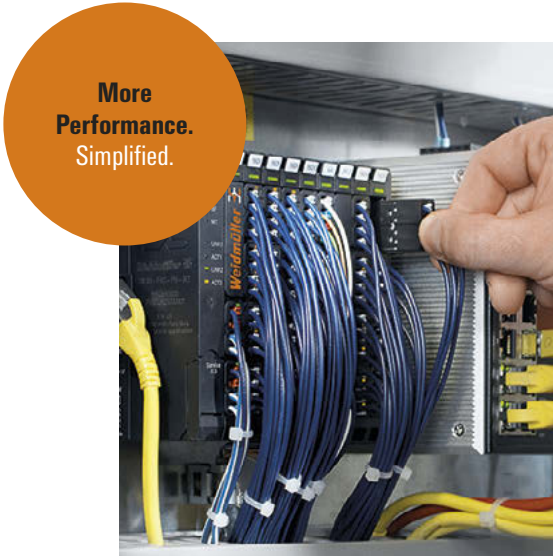
As an industrial connectivity partner, we support you in all your connectivity requirements, from the cabinet to the field. To create valuable innovations, we require deep insights into the needs of people who have to master industrial connectivity tasks in machinery, energy generation, process production, transportation and even device manufacturing on a daily basis. What would bring them a significant benefit? What specific challenges do their industries face? We ask ourselves these questions and respond with strong product solutions, tailored to each industry.

We connect people and markets, technologies and products around the globe – that's what we mean when we say "Let's connect."





News Highlights



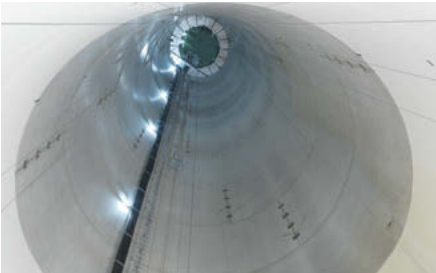
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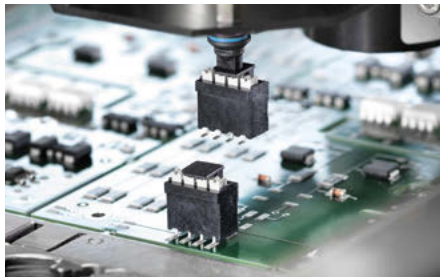
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KT-cutting tools impress with protective handles rated up to 1,000 V

- 72** High repeatability with each screw connection
With cordless screwdriver with automatic torque limitation

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- 76** Simple testing in compliance with standards
With our 2-pole voltage tester including integral buzzer function

Marking system

- 78** A wide variety of marking options
MultiCard extension for even greater consistency

Experience the best connections of 2014/15 online on our innovations platform:

www.weidmueller.com/best-connections

Here, you will find all the technical information and ordering data – also available for download.

If you prefer an overview in printed form, you can also order the catalogue here under the following order no.: **1555040000**

You can also receive all catalogue contents on CD: **1555070000**

Let's connect.

We constantly offer up-to-date ordering data and technical details on our full range of products at: catalog.weidmueller.com

WIN! Weidmüller Information & News

In the online section of our customer magazine WIN! we keep you up-to-date about news and stories from the world of Industrial Connectivity. Learn through interviews, commentaries and background articles, what moves us and our markets to date. Furthermore, the exemplary stories of our customers' projects give you an idea of how our solutions shape our focus industries in practice.

Visit the magazine section of our website with its regularly updated news and stories:
www.weidmueller.com/WIN

You automate high-performance machines and production lines

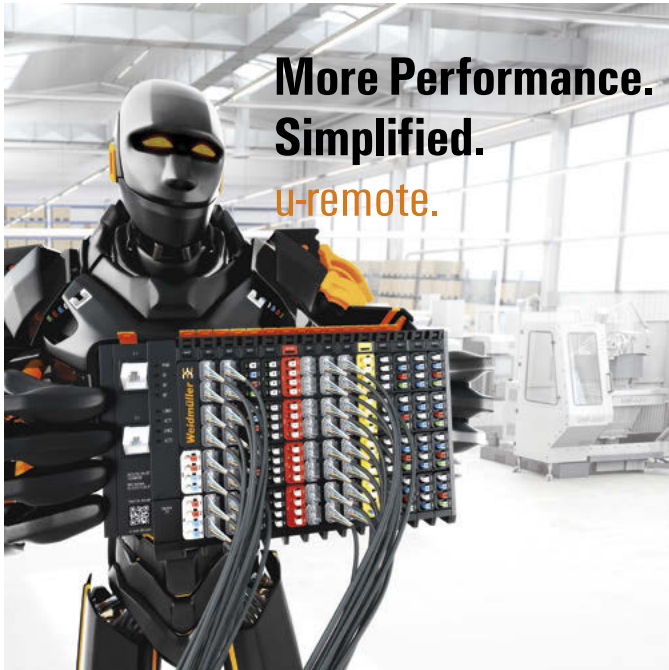
u-remote generates maximum efficiency in your projects

You want to perform your machine development operations – from the automation concept to the stable machine operation – in such a way that they are fast, high-performance, smooth and deliver identifiable added value for your customers. The decisive factors for your project's success are consistently efficient processes and unique functions.

With u-remote you're laying the foundation for this. By implementing powerful and easy-to-use signal connection components, you will reap early on the advantages for installation work, machine commissioning and subsequent service applications at your customers' premises.

From planning to operation, u-remote allows you to speed up all processes and opens up new possibilities for intelligent system architecture. The result available to you is an innovative I/O system which is the perfect response to growing complexity in machine and factory automation thanks to its powerful flexibility and simple handling.

Our formula:
"More Performance. Simplified. u-remote."



With u-remote, you can expect a system that is full of clever details and allows you to install innovative, cost-saving and easy-to-handle automation solutions in your project.

Your special advantages:

Only with u-remote: 32 connections per module
u-remote's new HD modules are once again raising the bar in modern I/O technology. The HD plugs measuring just 8 mm wide are only half as large as the previous plug-in connectors. This translates into 32 connection points on a module width of 11.5 cm, already the slimmest on the market.

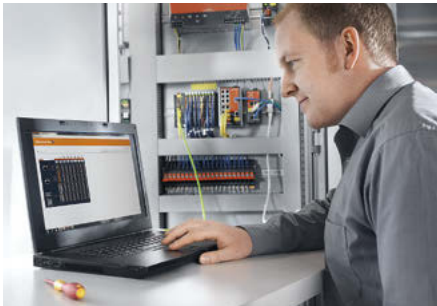
Why waste space?
Design your cabinets one size smaller: u-remote, with the highest connection density on a module, offers you the most slender module width and a far lower space requirement for power-feed modules - an unrivaled channel density and extremely flexible design options.



Simply plug and go
The plug-in connection level allows sensors and actuators to be connected with pre-assembled cables. This means improved time benefits, better handling, and minimises the number of mistakes in system wiring. Decentralised automation modules in particular are so very easy to transfer into productive operation.



Diagnostics, even without a control connection
u-remote simplifies machine commissioning section-by-section and accelerates maintenance work with its integrated web server. Thanks to the high performance diagnostic tool, you can simulate the functionality of inputs and outputs prior to control connection. You can conduct plain text error analyses using any standard browser – whether you're working on-site or remotely.



Intelligently separated
u-remote separates the supply for inputs and outputs using two 10 A current paths which are able to withstand high loads. High productivity translates into fewer power-feed modules and therefore more space and less planning. And your system can be quickly maintained while retaining full diagnostic capability, as inputs and outputs can be switched off independently of one another.



Achieving higher productivity is so easy

u-remote combines powerful technologies with efficient processes

Zero errors with greater performance
The clearly structured single-row connection strip assists with assignment to the circuit diagrams. Especially when working to tight deadlines, this prevents wiring mistakes and problems during service work.
Unique: The innovative HD modules with 32 ports allow for connection of 8 individually pluggable 4-wire sensors.



Improve system availability
The system simply runs on and on. The permanent base allows electronics to be replaced without interrupting communication, or the supply of voltage to your remote I/O system. A reliable solution for minimising machine downtime.



Extremely fast with huge power reserves
The u-remote has outstanding electronic performance, with the high-speed system bus achieving up to 256 DI/DOs in 20 µs. u-remote offers an extremely fast response time and precise mapping of processes in the system, with up to 1024 I/O channels per station, as well as huge power reserves for future use.



A single power supply is enough
Keep your remote I/O station as small as possible and simplify your planning. u-remote has a 4 A supply path, which allows 64 I/O modules to be operated with just one power supply on the coupler.



One glance and you can see everything going on
Clear assignment of status and diagnosis has never been this simple. With one LED on the channel and status displays on each module, you can easily see all you need on u-remote. The technician can see and rectify errors without delay. Indispensable benefits for a safe start-up and rapid system maintenance.



Direct insertion – direct savings
u-remote is equipped with “PUSH IN” direct connection technology. The conductor with wire end ferrule is simply inserted in the clamping unit until the stop is reached – job done! This technology delivers time savings of up to 50 percent, compared to conventional wire-connection methods, and without losses on safety.



Speed things up with modularity
The modular structure of u-remote ensures rapid start-up and simple service. The compact design enables intuitive handling which reduces wiring mistakes and therefore lessens the start-up times for machines and systems. u-remote speeds up the replacement of electronics without the need to alter wiring during maintenance work, so improving system availability.



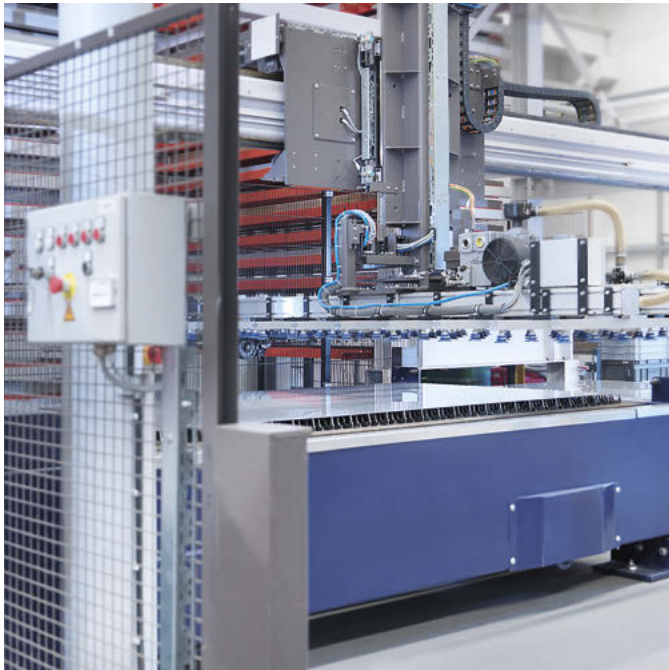
Powerful power supply for machines and systems

PROmax offers flexible solutions for ambitious automation

Instantaneous loads at high cabinet temperatures place special demands on the power supply for large machines. Failures caused by device defects impact the entire production line and can result in high costs.

Our high performance and durable PROmax switched-mode power supply units are designed for particularly demanding requirements. Continuous overload of up to 20 % or transient peak loads of 300 % are easy for PROmax to handle.

High boost capability and full power are also enabled over a wide temperature range. Our switched-mode power supply units can be used around the world and are also suitable for tight spaces thanks to their narrow width.



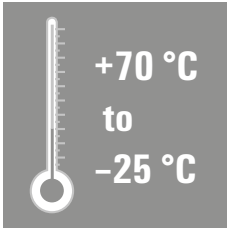
Whether in large machines, power or process systems: Thanks to their high boost capability, the space-saving housing geometries, the wide temperature range and the numerous approvals, our PROmax switched-mode power supply units can be used for universal applications and anywhere in the world

Your special advantages:

Powerful

Continuous output power of up to 120 % at temperatures up to +45 °C and high output peaks up to 300 % – PROmax ensures safe operation, even at the performance limits.

Robust and reliable supply
MTBF values exceeding 500,000 hours and a wide temperature range of –25 °C to +70 °C ensure reliable supply of the systems. Start-up temperatures of –40 °C make the PROmax particularly robust.



Space-saving width
With extremely small width and direct side-by-side fitting, minimal space is required on the DIN rail.



Universal application
Variants with 3 A to 40 A output current, output voltages of 5 V DC to 48 V DC and numerous approvals (e.g. GL, UL, Class I, Div. 2) enable universal application solutions the world over.



Secure communication with simpler addressing

Our firewall/NAT router efficiently integrates equivalent IP subnetworks

Industrial routers typically support a wide range of functions. Depending on the respective application, however, only a few of these features are actually required. Focusing on the essentials is essential if the amount of work required for IP integration of machines in higher level networks is to be minimised.

So you do not have to forego a high degree of network security, we have specifically designed our new firewall/NAT router IE SR-2GT LAN FN for applications in which the priority is on network security and network address translation (NAT). By means of the integrated stateful packet inspection firewall with flexible 2-way packet filtering (WAN/LAN inbound and outbound), the router reliably protects industrial IP networks. Via the functions 1:1 NAT and IP forwarding/virtual mapping, you can flexibly integrate equivalent IP subnetworks without needing to adjust the machine network in a higher level production network.

The new router model is the most efficient choice for integrating systems with the same IP address space.



Integrate common-part series machines, each with identical IP addresses in an existing production network – this works especially simply and reliably with the new Weidmüller firewall/NAT router

Your special advantages:

Outstanding performance

Gigabit Ethernet interfaces enable a very high data throughput. Reliable network security is assured by the stateful packet inspection firewall with flexible 2-way packet filtering for bidirectional data traffic monitoring.

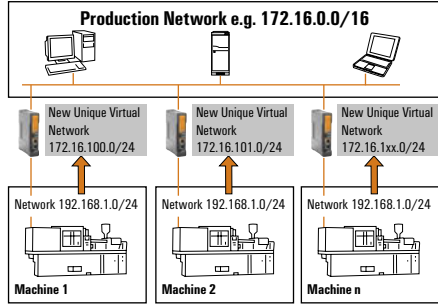
Optimised network infrastructure

IP-routing provides controlled transmission of data traffic between subnetworks. At the same time, segmentation into subnetworks reduces network loads.



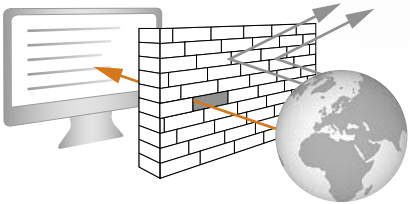
Easier configuration

IP addresses are virtually implemented by 1:1-NAT. Series machines with identical IP configuration can now be operated in parallel and integrated into higher-level networks - without the need to assign individual IP address ranges to each machine.



High degree of network security

The integrated firewall with extensive configurable filter functions recognises legitimate data traffic and prevents network access by unauthorised data.



Other LAN/WAN routers with integrated VPN technologies

Use the following models for secure, worldwide remote access to machines and systems:

IE-SR-2GT-LAN

- IP routing, firewalling, NAT
- remote maintenance via secured VPN connections

IE-SR-2GT-UMTS-3G

- IP routing, firewalling, NAT
- remote maintenance via secured VPN connections
- networking options via wireless data transmission



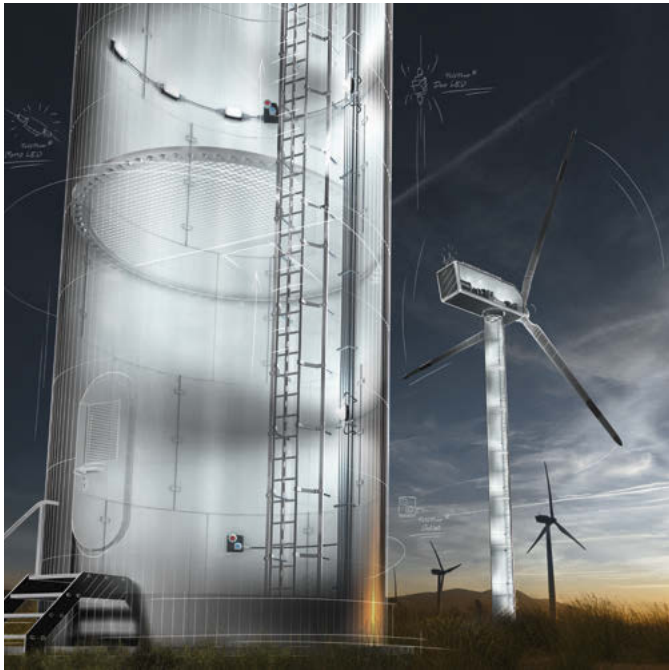
A bright future for the efficiency of your systems

FieldPower® Wind Energy combines intelligent lighting and power supply

You need a simple and secure system with a perfectly harmonised total solution to equip your wind turbines.

FieldPower® Wind Energy combines the practicality of modern power bus systems with the benefits of LED technology. This smart system solution has everything you need to implement a future-oriented power supply and interior lighting in your wind turbine installations. If required, different types of LED lamps and connection components can be combined. Thus you achieve the best possible result for each application.

In keeping with the philosophy of the proven Weidmüller FieldPower® series, the innovative and highly efficient system solution demonstrates its worth in practical application.



Ever larger wind power installations serve steadily growing energy needs both onshore and offshore. From rugged modules we create application-specific system solutions to meet demanding requirements

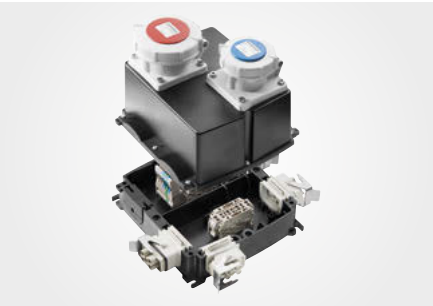
Your special advantages:

Intensive project support

In a detailed simulation, we will show you how our system can be integrated in your wind turbines – as well as precisely identifying the benefits. Once we have identified all the necessary components, we will guide you through the application-specific planning and implementation of your customised lighting and power supply concept.

Individual outlets

The FieldPower® system enables customised use of compact power outlets at all levels and in all locations. This means that service staff, for instance, always have perfect access to power and thus save valuable time.



DC/DC converter

The DC/DC converter transforms the supply voltage from 24 V DC to 120 V DC. In conjunction with the wide input range of the LEDs it allows cables with a considerably smaller cross-section to be used.



Control Unit

The remote monitoring system provides status messages on the condition of the lighting system and can be easily integrated into existing wind farm systems. It also provides an option for controlling a visual alarm system in the tower as a perfect complement to existing monitoring systems.

FieldPower® Mono LED FieldPower® Mono LED K

Non-directional lighting for illuminating entire rooms and larger areas. Provides optimum working conditions in the nacelle, hub and on the platforms.

FieldPower® Duo LED

Lights facing both upwards and downwards for lighting up the wall area. Ideal for illuminating the ladders in the tower.



Safely control work processes in hazardous areas on site

With certified enclosure solutions with control and display elements

Harsh industrial environments and hazardous areas, such as in the oil and gas industry, place extreme demands on the safety, the robustness and quality of products and devices.

We meet these challenges with the Klippon® Control Station, the latest addition to our range of customised enclosure solutions. More than 40 years of expertise have made us market leader in this area with global competence centres. The basis of our enclosure solutions is provided by the usual Weidmüller quality and comprehensive approvals for explosion hazard areas. Based on this, our sturdy “on-site control station” is available in two standard sizes and with up to four control and display elements and provides a flexible solution to meet your specific needs.

Order your distributor enclosure as well as control and signaling units from a single source and from one enclosure design – for reliable security and reduced storage costs for maintenance and repair operations.



Predestined for emergency shutdown applications: Klippon® Control Stations score when it comes to the safe shutdown of plant sections, such as in the process industry

Your special advantages:

Ideal for urgent service calls

We have prepared modules of the proven Klippon® enclosure series STB, POK and K available for you for further processing. This means we manufacture a control solution suitable for your application at short notice.

Customised assembly

In addition to standard types from stock, you can obtain enclosure solutions from us that are completely assembled and equipped according to customer requirements.



Project solutions from a single source

Obtain command/signaling units and distribution and control boxes as a complete solution – tailored to the individual requirements of your projects in hazardous areas.



A variety of sizes and materials

Enclosures in stainless steel, aluminium or polyester are available for different environmental conditions. Depending on the size of the enclosure, it provides space for the integration of up to four control and display elements.

International certificates

The Klippon® Control Station is tested and certified among others according to ATEX and IECEx.



Machinery

Process

Energy

Transportation

Device Manufacturers

Secure power distribution for wagon-to-wagon coupling

With our compact RockStar® HighPower wagon-to-wagon connectors

Heavy-duty power lines were previously hard-wired at wagon-to-wagon connections; today plug-in solutions are becoming increasingly common. Carriage substitution and train extensions are thus made possible on an hourly basis.

To meet the increasing demands on performance, ease of handling and space requirements, we have developed a completely new connector system based on our RockStar® HighPower series. The wagon-to-wagon connectors are designed for the transmission of up to 550 A and 1,500 V with conductor cross-sections from 35 to 240 mm².

Benefit from the modular design, with 1, 2, 3 and even 4-pin variants, the maintenance-free, securely crimped lines and the high impact strength of the plug system.



RockStar® High Power combines rugged hard wiring to the carriage interior with a removable connection between carriages. From 2016, the high-current connector will also bring new high-speed trains of the Deutsche Bahn quickly on track.

Your special advantages:

Pluggable in the smallest spaces

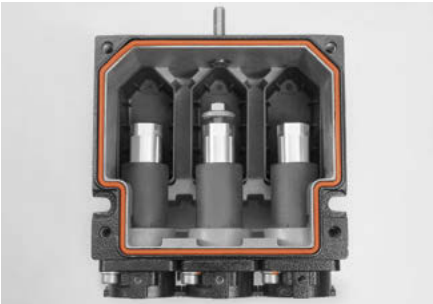
Since other electrical and mechanical units are also mounted between carriages in addition to the protected passenger connector, space is at a premium. No problem for our compact high-current connectors:

- 3-pin version: 190 x 351 x 163 mm
- 4-pin version: 250 x 351 x 163 mm



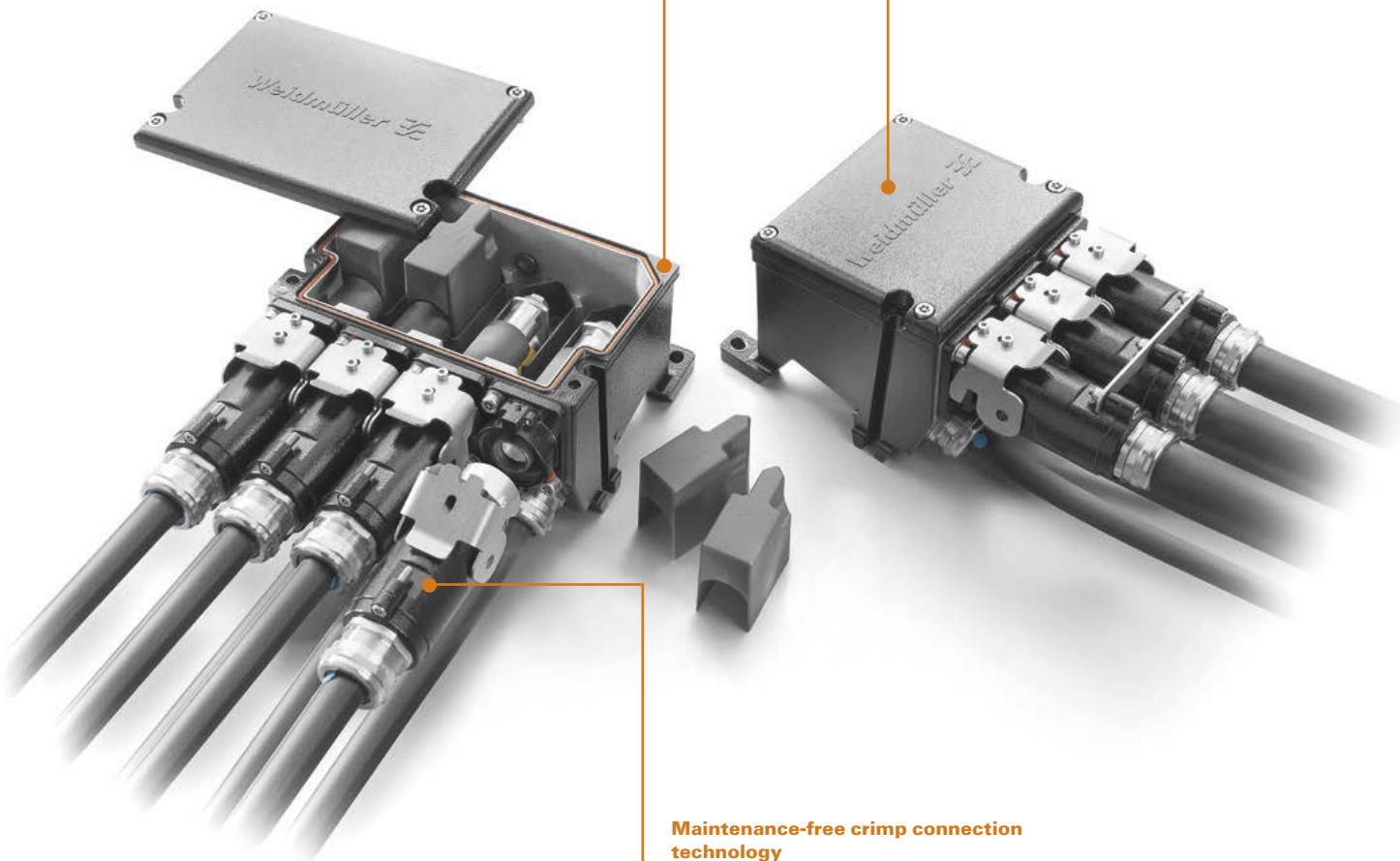
Dustproof and watertight

The plug-in connector is installed on the end wall of rail cars, where it is exposed to adverse weather conditions, such as rain, hail, snow and ice.



Plug-in high power transmission

With its sophisticated design and the use of high-quality insulation and contact materials, the HighPower plug-in connector has an output of 550 A and 1,500 V per contact – with a grid spacing of 60 mm.



Maintenance-free crimp connection technology

The crimp connection technology used in the end-wall connector is sure to impress thanks to its compact and maintenance-free design.



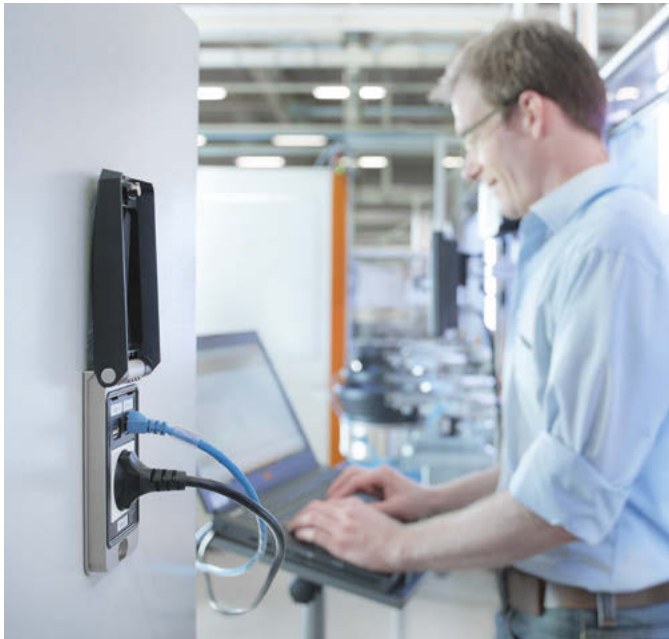
Access plants and processes more efficiently

FrontCom® Vario combines power, signal and data transmission on half the space

Protected service interfaces on switch cabinets allow a wealth of service work to be performed during ongoing operation and effectively increase availability and productivity of your plant. Technicians are assured of fast and safe access at any time to the controller in the cabinet, without having to wait for specially authorised technical personnel. At the same time, the risk of misuse or accidents is drastically reduced.

With FrontCom® Vario, we have developed a service interface that sets new standards. The system is compact, simple to install and can be assembled flexibly. There are various data, signal and power modules and several attractive housing designs are available, so you can choose a solution that suits your specific requirements.

A number of unique features make FrontCom® Vario into a particularly safe, fast and future-oriented solution. Maintenance and optimisation processes on your plant are made much more efficient and thus less expensive.



Faster and safer access to the control elements in the control cabinet: readout of production data, convenient troubleshooting, configuration and programming with FrontCom® Vario completely straightforward and without professionals

Your special advantages:

More power on half the space

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

Future-proof data transmission

RJ45 inserts pursuant to the latest Cat.6_A standard guarantee the best transmission characteristics. They allow high data transmission rates of up to 10 GBit/s.

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.

More security

The variant with a genuine security lock, which is available as an option, offers perfect protection against unauthorised access.



High flexibility thanks to a modular system

The FrontCom® Vario is synonymous with unique flexibility given its modular design and more than 5,000 possible combinations. There are therefore variants available in plastic or made of robust metal for harsh environments. All of the variants meet the requirements set out in the IP 65 standard. The special thing is, that FrontCom® Vario is fully mounting-compatible with the market standard.

Additions to the FrontCom® family

The new convenient and modular FrontCom® Vario is an addition to the successful FrontCom® Micro service interface. These are now available with USB 3.0 coupling.



Machinery

Process

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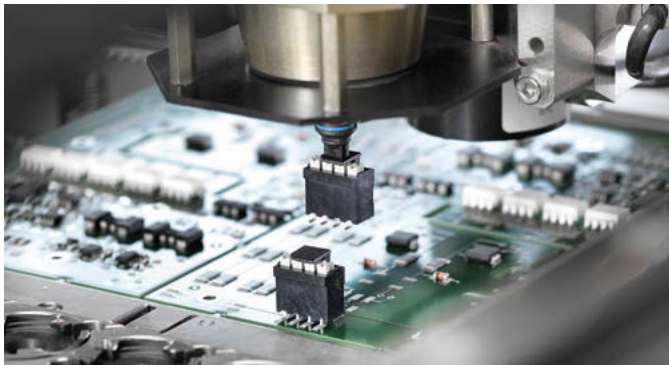
Your future lies in SMD assembly

OMNIMATE Signal LSF-SMD provides more design freedom

Maximum freedom with regard to PCB design calls for flexible terminal solutions that can also establish secure contacts with composite PCBs made from glass, ceramic or aluminium. Only in this way can you achieve quality-assured and efficient PCB assembly.

With our new LSF-SMD family, we are satisfying demands for fully-automatic PCB surface installation using the SMD soldering procedure. Two soldering pads per pole provide a high level of mechanical stability according to IPC A 610 Class 2. "PUSH IN" technology enables a secure connection without the use of tools. The 3.50 mm, 5.00 mm and 7.50 mm pitches and the 90°, 135° and 180° conductor outlet directions cover a multitude of device requirements and offer high component density with a maximum connection cross-section of 1.5 mm².

Use of the distortion-free insulating material LCP, which is resistant to high temperatures and has a moisture level of MSL 1, enables a high level of dimensional stability, thus guaranteeing co-planarity for the reflow soldering process without the need for a drying phase beforehand.



Drilled holes and feed-throughs on PCBs cost time, take up space and limit design freedom. Our wide SMD range featuring "PUSH IN" direct connectivity is economical and opens up new design possibilities. For LED devices featuring an aluminium cooling element, for instance, where no holes can be drilled.

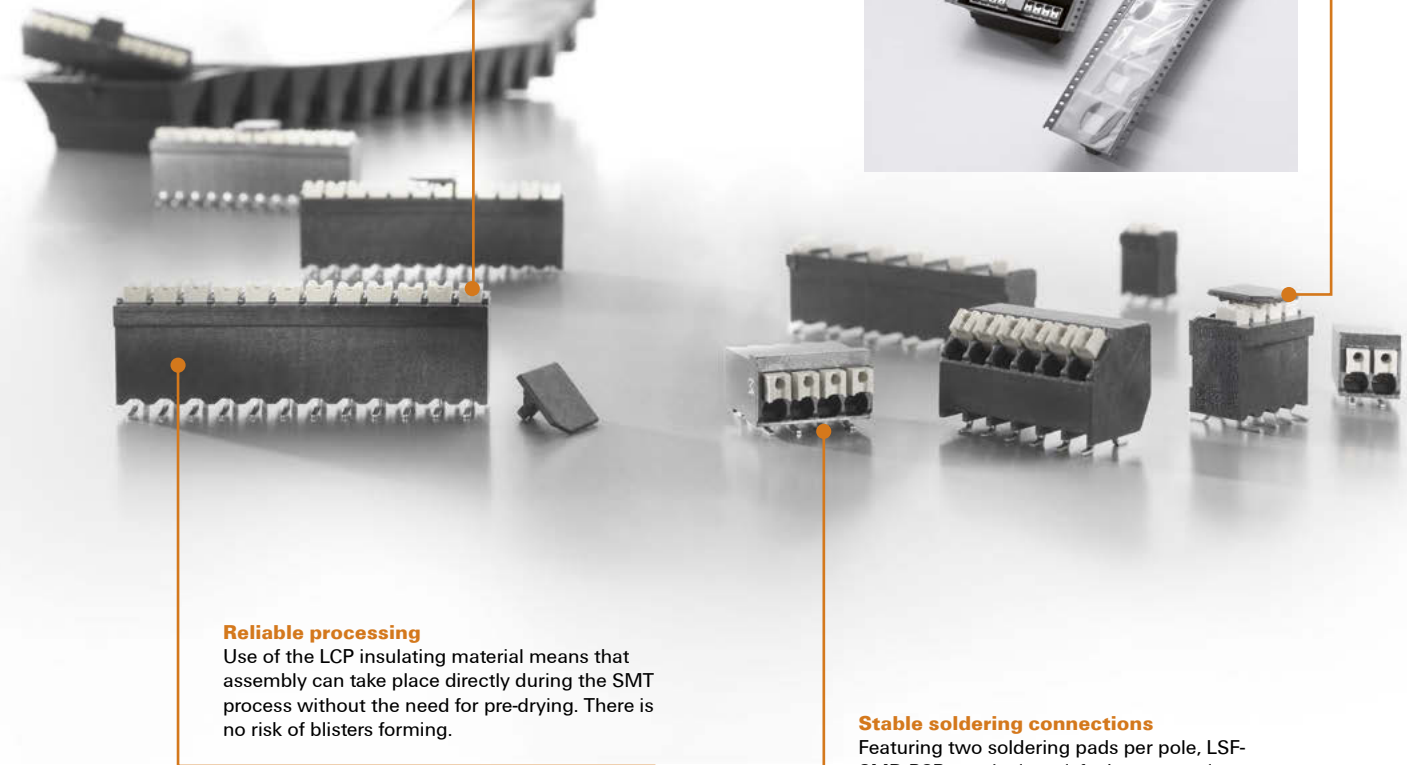
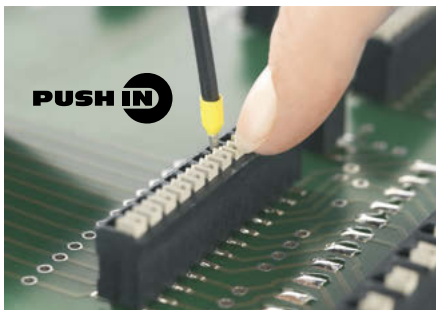
Your special advantages:

Uniquely wide product range

The Weidmüller range of "PUSH IN" PCB terminals which is designed for the SMD reflow soldering process meets the requirements of a fully automatic PCB surface mounting for three different main pitches and wire entry directions.

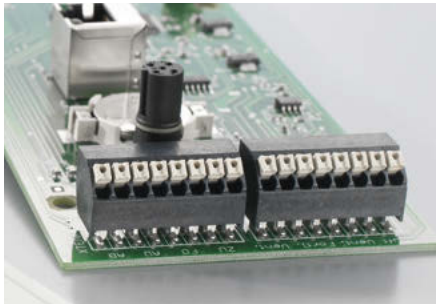
Fast wire connection method

The proven "PUSH IN" direct connectivity enables secure contacts up to 1.5 mm² without the need for tools. Conductors can be released simply and quickly by pressing the release button.



Reliable processing

Use of the LCP insulating material means that assembly can take place directly during the SMT process without the need for pre-drying. There is no risk of blisters forming.



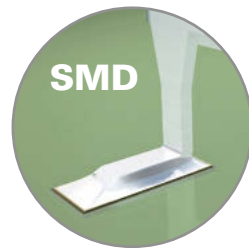
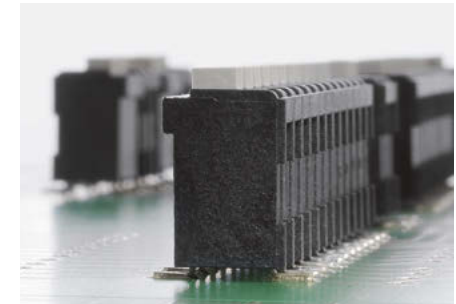
Efficient assembly

Automatic assembly is supported by the tape-on-reel packaging in standard belt widths. Pick-and-Place pads guarantee reliable attaching and setting down.



Stable soldering connections

Featuring two soldering pads per pole, LSF-SMD PCB terminals satisfy the most stringent mechanical fixing requirements without the need for additional mounting flanges.



Machinery



Process



Energy



Transportation



Device Manufacturers



Easy stripping of hard, complex insulation materials

stripax® ULtimate and AM 16 accelerate your cable processes

Cost-efficiency, elevated safety standards and the trend towards application-specific cables raise the complexity of wire insulation. Stripping just these cables is one of the biggest challenges.

stripax® ULtimate is our first tool allowing you to strip halogen-free insulation materials and UL or similar cables. Even cables with hard or smooth insulation present no problem – and the same is valid for our sheathing stripper AM 16.

Whether in a cabinet, in machine construction and plant manufacture, in rail traffic, wind power generation, robotics, explosion protection, as well as for marine, offshore or shipbuilding applications - with stripax® ULtimate and AM 16 we provide you with a solution to your stripping problems in all areas.



In wind power installations, elevated temperature requirements for cables and single wires of -40 °C to +145 °C lead to increased cable processing complexity. In addition, halogen-free components are increasingly prescribed, as they do not produce any corrosive or toxic gases in case of fire. With stripax® ULtimate and AM 16, you can strip hard, complex insulation materials with ease.

Your special advantages:

Suitable for all cable types

Regardless of whether standard, application-specific or extreme isolation: together stripax®, stripax® ULtimate and multi-stripax® form an unbeatable team that allows you to strip virtually all cable types safely.

Fast, cleanly and precisely

The unique stripax® ULtimate set of blades allows you to strip all halogen-free, as well as UL and similar cables.



Simple prefabrication

stripax® ULtimate's new 3-stage partial stripping function, the only automatic self-setting stripping tool on the market, allows highly accurate prefabrication of hard insulation materials.



A broad range of uses

Thanks to improved cutting depth setting, even processing of different insulation thicknesses with extremely thin-walled cable sheathing is no problem. The practical readout scale supports you here in fine-setting the blade depth.



Stabilising cable routing

The additional cable routing ensures that especially thin cables are securely held and can be stripped without slipping.



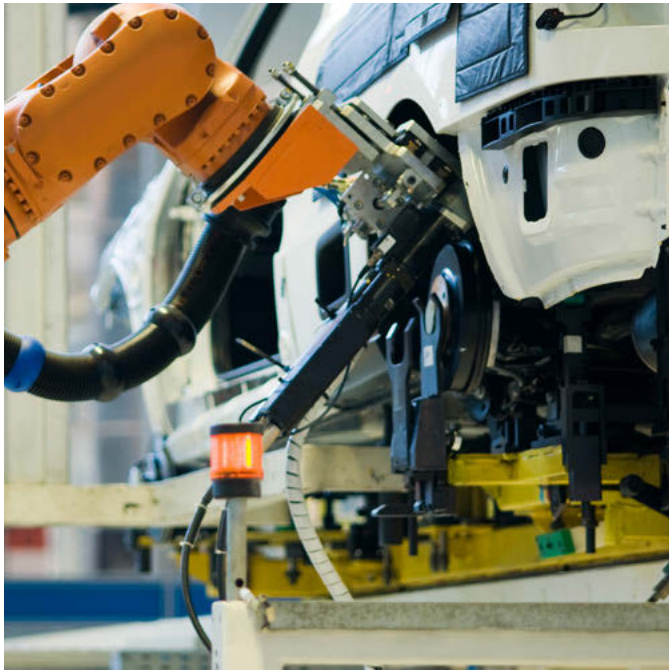
Resistant marker for harsh environments

MetalliCard extension for more demanding applications

High temperatures, detergents, mechanical loads: where markers in the production environment have to withstand harsh conditions, a particularly resistant marker solution is required. Even after prolonged exposure, it should still be legible.

Our aluminium or stainless steel MetalliCards can be precisely printed with our industry PrintJet ADVANCED printer and are ready for use without further processing. In this way you get a system marker that is resistant to high temperatures, UV radiation, climatic influences and many chemicals.

Take advantage of the new marker sizes in our MetalliCard range for even more flexibility when marking – thanks to innovative inkjet printing, even in colour.



In car body manufacturing, conditions are found that do not allow any kind of marking of wires or components. MetalliCards score here through consistent marking in harsh production environments – even without a protective cabinet

Flexible installation

The MetalliCard also offers optimum installation characteristics. MetalliCards can be used universally thanks to various fixing options: bonding, riveting, with tag holders or rails, or in combination with stainless steel cable ties.



High-quality colour printing

With the excellent colour printing of the PrintJet ADVANCED, you can individually create graphics, logos and characters – for safe and high-quality system identification.



Permanent marking

Successfully tested for resistance to diverse environmental influences, our MetalliCard markers are synonymous with long-term durability.



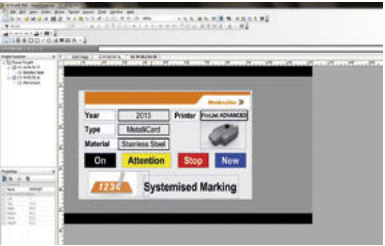
PrintJet ADVANCED

The PrintJet ADVANCED inkjet printer is the optimum addition to the MultiCard and MetalliCard range for high-quality, resistant colour printing on site.



M-Print® PRO

This complete system is highly customisable – our M-Print® PRO software can be used to independently create your own custom marker layouts.



Your special advantages:

Customised design: Coloured printing on metal tags

Create durable coloured markers with our seamless system solution from markers, printers and software that allows the use of both markers made from polyamide and aluminium or stainless steel.

Tackle power supply economically

PROeco bundles all of the basic functions in a compact design

You are looking for a reliable power supply with basic functionality? Even in series machine construction, switched-mode power supply units can create a real competitive edge thanks to above-average performance values. The efficient PROeco series offers all of the basic functions and delivers impressively high performance and flexibility.

Our PROeco switched-mode power supply units are characterised by their compact design, a high degree of efficiency and the fact that they are extremely easy to service. Thanks to over temperature protection, short-circuit and overload protection, they can be universally used in all applications.

Solutions featuring PROeco are characterised by extensive safety functions and compatibility with our diode modules, capacity modules and USP components for setting up a redundant power supply.

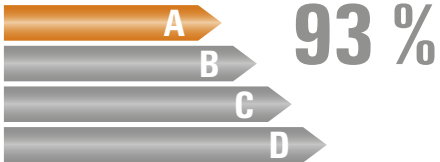


With high performance and failure protection with a low installation height, PROeco scores in applications with many decentralised small switch cabinets - for example in packaging machines and conveyors

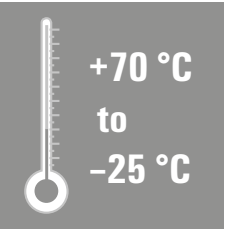
Extremely compact
With a max. depth of 120 mm, PROeco power supplies even fit into small cabinets. The compact design also saves up to 50 % space in the cabinet.



Noticeably energy-saving
A high degree of efficiency of up to 93 % and minimal no-load losses ensure low energy consumption and a long service life.



Robust and reliable
PROeco power packs work reliably in a wide temperature range from -25 °C to +70 °C and boast a high MTBF value of more than 500,000 hours.



Your special advantages:

Rapid status diagnosis
The three-colour LED display and an integrated status relay make it easier to analyse statuses and errors during commissioning and operation.



Your systems work with intrinsically safe signals

ACT20X signal converters score with their SIL approval

The safety functions in explosive zones, e.g. the switching on and off of aggregates, the surveillance of actuators or the monitoring of temperature and pressure, require signal converters that have an SIL certification.

Our ACT20X is designed for the conversion and isolation of signals from Ex zones (zone 0, zone 1 or zone 2). The signal converters comply with the stringent standards of the process industry, as well as mining industry requirements. Typical applications include the level monitoring of tank systems or pressure monitoring of reaction vessels.

Intrinsically safe signals can be reliably converted to standard signals and there is a safe function message in accordance with SIL within the scope of functional safety requirements.



From the reliable capture and transmission of signals through safe shutdown in critical situations to establishing protective measures for long signal paths – our solution package ensures safe signal circuits in the process industry and energy technology

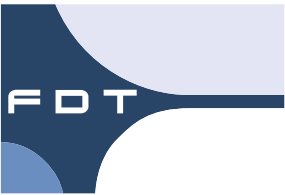
Your special advantages:

Reliable signal transmission within the package
Together with the SAFESERIES safety relays and surge protection devices from the VARITECTOR program that are also SIL-certified, ACT20 X-signal converters allow a complete safety circuit to be set up according to SIL 2 / SIL 3.

Quick error analysis
Cable or sensor faults are visually indicated quickly and reliably on the device and a diagnostic signal is sent to the controller.



Convenient configuration
All of the ACT20X modules are easy to configure using manufacturer-independent FDT/DTM software.



SIL 2 / SIL 3
Our SIL certified products can be used in safety-oriented applications.



Can be used around the world
The ACT20X modules are flexibly deployable as a result of their extensive approvals. The mining industry is an example.



Limit monitoring with simple configuration

ACT20P identifies even the smallest deviations

Reliable monitoring of parameters such as pressure, flow and temperature plays an important role, especially for power applications and in the process industry. In this regard, individual specifications and standards define the limits to be observed for smooth process flows.

Our ACT20P trip amplifier enables a precise monitoring solution to be set up for your process signals. Easily configured via FDT/DTM software or also directly on the device, the universal module can be used in many ways. The universal input range as well as the robust design support a wide temperature range.

The trip amplifier is characterised by high reproducibility and reliability. Thanks to its wide range of alarm functions, it can identify and accurately report even the smallest deviations.



Effective control of threshold limits for the process industry - our trip amplifiers offer an especially precise solution that responds rapidly and correctly in the event of deviations

Your special advantages:

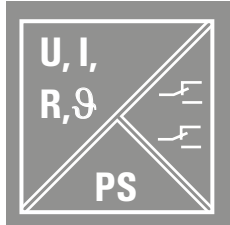
Simple configuration

Use the buttons on the 7-segment display to configure the ACT20P monitoring module extremely quickly. The manufacturer-independent FDT/DTM software also facilitates configuration.



Universal input

The universal input range covers DC currents up to 5 A and voltages up to 300 V, 2/3-wire RTD, thermocouples, resistors and potentiometers to 500 kΩ.



Numerous alarm functions

Window alarm, alarm delay, wireline break detection and hysteresis are just some of the features with which the trip amplifier provides the best conditions for each process requirement.



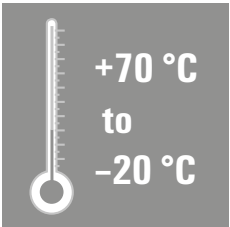
Configured directly at the device

A 7-segment display and LEDs support the direct configuration by push buttons and potentiometer.



High temperature stability

Thanks to the extended temperature range from -20 °C to +70 °C, the robust monitoring module can be used in any environment.



Intrinsically safe signal conversion in a variety of Ex-zone applications

ACT20X combines universal input and output loop supply

Compliance with safety requirements and precision are basic prerequisites for industrial plants with EX areas. Basic security functions, such as switching on and off of aggregates, monitoring of actuators or temperature and pressure control require the support of an intrinsically safe and high-precision signal converter.

With our ACT20X we offer a universal device for the reliable isolation and conversion of intrinsically safe signals. Thanks to its integrated output current loop, the module does not require any additional external power supply and can also be easily used in remote control boxes. Integrated in a housing which is only 12.5 mm in width, the intrinsically safe signal converter takes up little space on the mounting rail.

The latest addition to our ACT20X series is characterised by high accuracy and compliance with all safety requirements for use in Ex-zones 0, 1 and 2.



The great advantage of a signal converter in applications such as capturing values from temperature and pressure sensors directly on site is that it can be used independently of the power supply

Your special advantages:

Predestined for Ex-zone applications

The combination of universal input and output loop supply makes the ACT20X a unique product solution for the process industry. Here, its advantages are particularly effective when used in remote cabinets. Typical fields of application are the mining industry – both, on the surface and underground – or overburden conveyor systems.

Independent of external power supply

Thanks to the output current loop, the intrinsically safe signal converter requires no external power supply as the DCS system supplies the device.



ACT20X – intrinsically safe signal converters for Ex zones

Signal converters of the ACT20X product family are specifically designed for hazardous and non-hazardous applications. They process signals from Ex zones 0, 1 and 2 for the control and meet the strict standards of the process industry. Using FDT/DTM software, you can configure the ACT20X modules for different applications. International approvals such as IECEx, ATEX, FM and UL allow them to be used all over the world.



Protection and robustness

The new ACT20X features high 2-way isolation and 2.5 kV isolation voltage. The intuitive connection system with release levers also simplifies maintenance and detaching of cables.

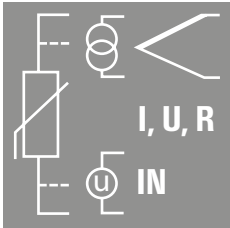


Safe in Ex zones

Comprehensive approvals allow worldwide use in Ex zones 0, 1 and 2.

Universal application

The comprehensive input has intrinsically safe RTD thermocouple sensors, resistance, potentiometer and DC signals (mA, V), so that information is transmitted quickly and reliably to the control.



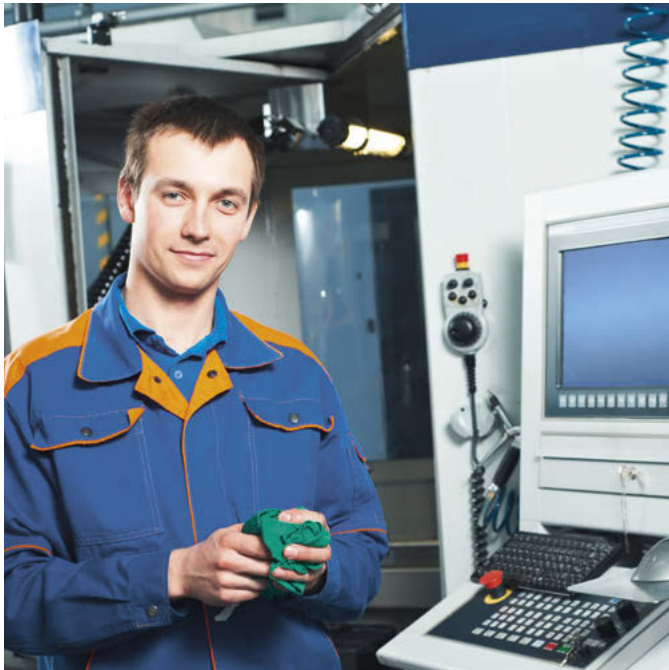
Faster signal wiring taking up less space

Our interface adapters for TERMSERIES relays reduce wiring times thanks to plug-and-play

To reduce wiring times, pre-assembled lines are used between the controller and interface level and are simply connected to the TERMSERIES adapter. This enables electrical cabinet throughput times to be significantly reduced.

Our pre-assembled plug-and-play solution with TERMSERIES interface adapter minimises wiring complexity. The adapter has a universal fit and offers a genuine space advantage in conjunction with TERMSERIES products with identical contours.

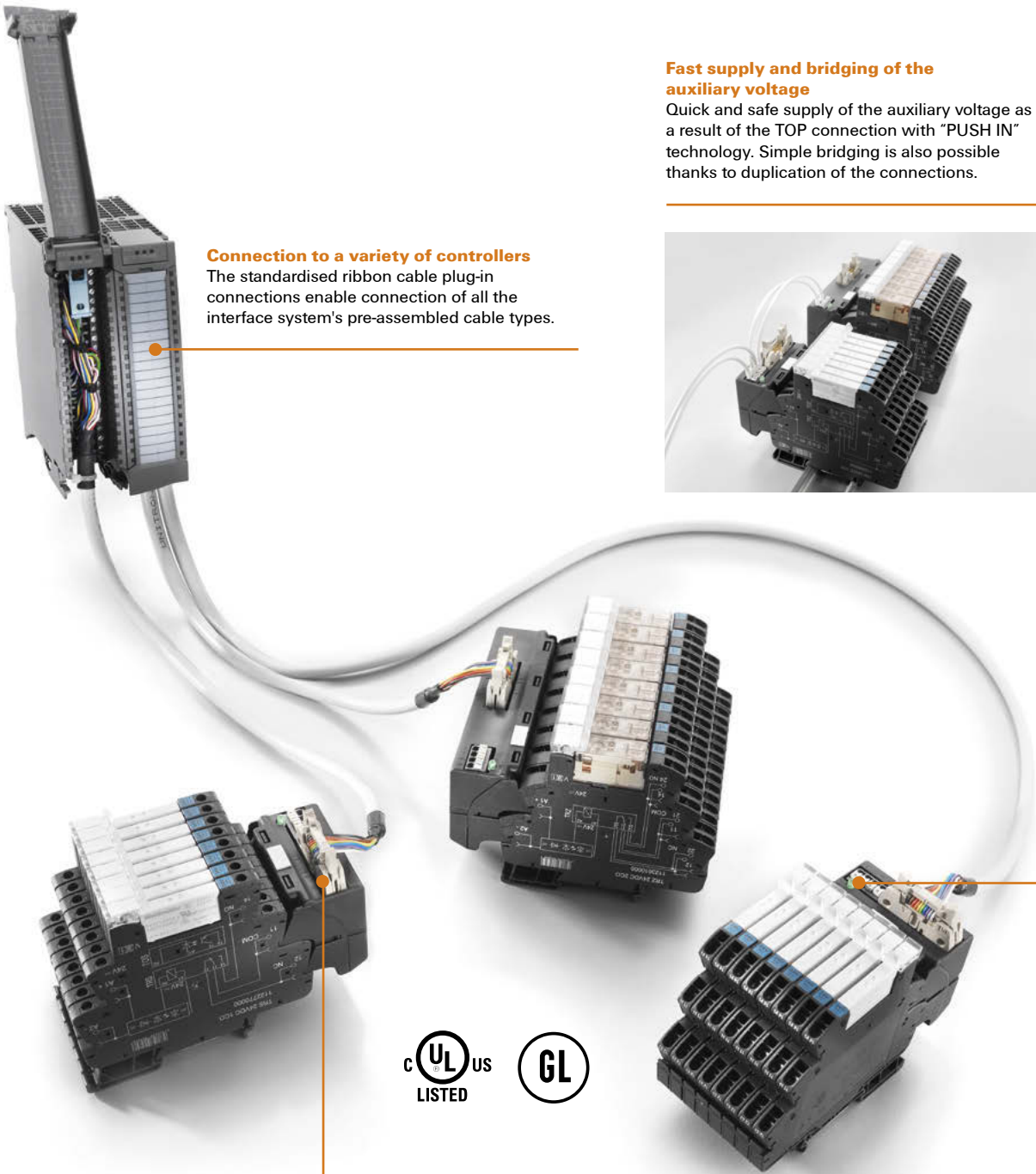
Thanks to its symmetrical structure, the adapter can be connected to both TERMSERIES coil and contact connections. The use of positive and negative switching logic is also possible for the lower level with the aid of the potential changeover switch.



Faster equipping of control cabinets containing a lot of wiring - this advantage is especially appreciated in applications with high levels of standardisation, such as in mechanical and systems engineering, process control engineering or shipbuilding

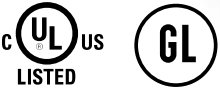
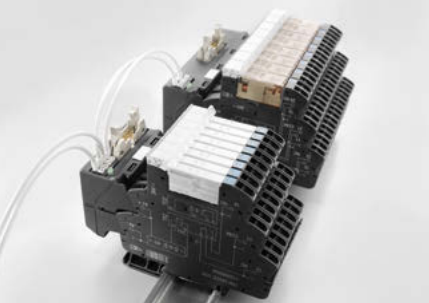
Your special advantages:

Both types of logic with one device
The potential switch for the lower level allows the interface adaptor for plus and minus switching logic to be used.



Connection to a variety of controllers
The standardised ribbon cable plug-in connections enable connection of all the interface system's pre-assembled cable types.

Fast supply and bridging of the auxiliary voltage
Quick and safe supply of the auxiliary voltage as a result of the TOP connection with "PUSH IN" technology. Simple bridging is also possible thanks to duplication of the connections.



Connection with our remote I/O system u-remote
Use our perfectly matched cable harness for connecting our u-remote DI/DO sub assemblies and TERMSERIES relays.



Reliable and unambiguous wiring
Installation is unambiguous and safe thanks to practical marking of the connections, assignment of the contacts and the option of individual marking using MultiCard.

Robust and compact Ethernet connection directly in the field

Our unmanaged Fast Ethernet switches cope with harsh environments

Decentralised installation structures place greater demands on the devices installed in the field. The use of robust switches in the field allows you to integrate several Ethernet field devices in your communication network.

Our unmanaged Fast Ethernet switches are unrivalled, even in harsh environments thanks to their high protection class IP 67. Dependably protected against water spray and dust, they can be installed without problems outside the cabinet - for flexible, decentralised Ethernet solutions directly in the field.

Configuration of your communication network is less complex as a result of direct and space-saving connection in the field. Complex multiple cabling is therefore avoided, which also reduces the number of mechanically induced faults.



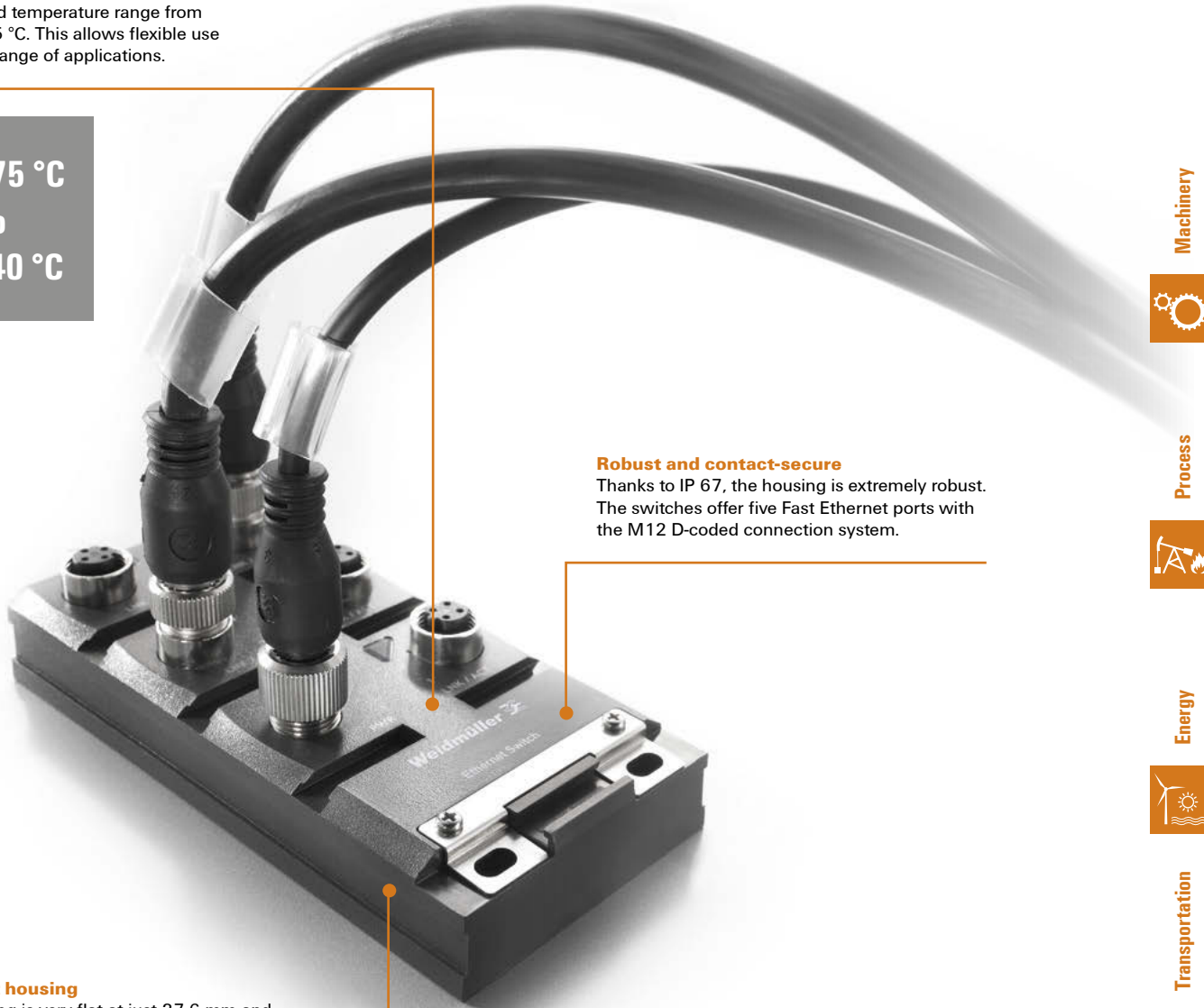
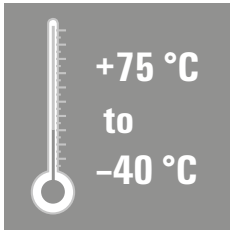
In order that factors posing a risk to electronics, such as dust, water spray and high humidity, do not impair functionality, our components offer reliable protection for your decentralised Ethernet applications thanks to their robust IP 67 housings.

Your special advantages:

Compact design

The particularly compact design (60 x 125 x 30 mm) of the switch allows it to be installed in applications with very restricted installation space.

Reliable even under extreme temperatures
Our IE-SW-IP67T-5M12 also works reliably in an extended temperature range from -40 °C to +75 °C. This allows flexible use over a broad range of applications.



Robust and contact-secure
Thanks to IP 67, the housing is extremely robust. The switches offer five Fast Ethernet ports with the M12 D-coded connection system.

Compact housing
The housing is very flat at just 27.6 mm and can therefore be inserted in even the smallest applications.



Multifaceted M12 patch cable
Our M12 D-coded Ethernet patch cables are available in various lengths and outputs. We also offer you plug variants that can be assembled in the field or encapsulated plug.



Your PoE devices pose high energy demands

Our switches supply all devices – also via Gigabit Ethernet

With Power-over-Ethernet (PoE) switches you safeguard the power supply of network-capable devices via the Ethernet cable. In inaccessible places or in areas in which too many cables are a disturbance, you can install Ethernet devices without additional cabling.

Our PoE switches can supply four RJ45 Ethernet ports each with 30 Watt to reduce installation investment and costs, irrespective of the PoE terminal device specification. They support 9.6 kB jumbo frames, which further raises the performance of a network.

Our IE-SW-BL05T variants also work reliably in the extended temperature range of -40 °C to +75 °C and supply several ports with high power - both for Fast Ethernet, as well as Gigabit Ethernet.

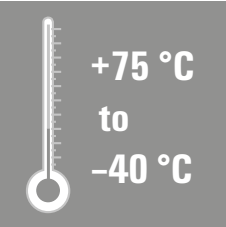


Due to high data transmission rates, surveillance cameras for quality control or plant monitoring are the perfect application for industrial PoE switches with 9.6 kB jumbo frame support. Complex cabling is not required here, as both data and current are transmitted via a standard cable.

Your special advantages:

- High-performance data throughput**
Thanks to Gigabit Ethernet ports, devices with high bandwidth requirements, such as high-definition IP cameras, can be easily integrated into the network via the PoE switch.
- Cost-efficient network design**
Additional fibre optic cable ports enable easy use in extended systems without additional converters. Even without an external 48 V power supply!

Reliable, also in the extended temperature range
You can even rely on our Industrial Ethernet devices at temperatures of between -40 °C and +75 °C.



High flexibility of range thanks to optical ports
Distances up to 2 km can be reached thanks to the multimode transceivers on the optical Ethernet ports. Further distances of up to 40 km or more are also possible with the SFP ports.

High bandwidth with Gigabit Ethernet
Our products send and receive data at gigabit speed and thus enable a high data throughput.

Machinery

Process

Energy

Transportation

Device Manufacturers

Flexible connection of serial and ethernet-based Modbus participants

Our Modbus gateway integrates them all

With a Modbus gateway you network serial terminal devices, such as an industrial controller via an Ethernet network and thus enable data communication between all the devices. What matters here is a high degree of flexibility.

Using our Modbus gateway, you can easily integrate automation components into the communication networks of modern systems that are usually incompatible with one another due to differences in technological status. Developed for Modbus TCP and RTU/ASCII devices and almost all master-slave combinations, any devices, such as the Power Monitor or the Transclinic xi+ string monitoring system, are combined on a technological level - easily and without major investment.

Our Modbus gateways excel by virtue of their simple configuration options. Both products support up to 16 TCP masters in slave mode and up to 62 serial slaves simultaneously. In master mode both support up to 32 TCP slaves.



Reliable data exchange in the assembly line is particularly straightforward with our Modbus gateways. Functionality and performance of individual, specific automation devices can thus be easily determined - completely without old, inflexible communication protocols.

Your special advantages:

All-purpose usage

Integrate Ethernet-based Modbus TCP and serial Modbus RTU/ASCII devices bidirectionally through freely configurable operating modes RTU Slave/Master and ASCII Slave/Master.

Cost-efficient network design

With the 2-port switch integrated in the gateway, it is possible to create a line topology with several Modbus gateways without the use of additional switch hardware.

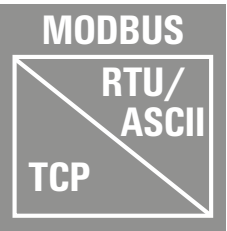
Fast response time and priority control

By means of the priority control you can generate immediate reactions to a request for urgent commands.



Uncomplicated configuration

Modbus RTU/ASCII devices, such as the Power Monitor, are easy to integrate in a Modbus TCP architecture.



Simple network cabling

Several Modbus gateways can be networked together in a line topology using simple cascading.



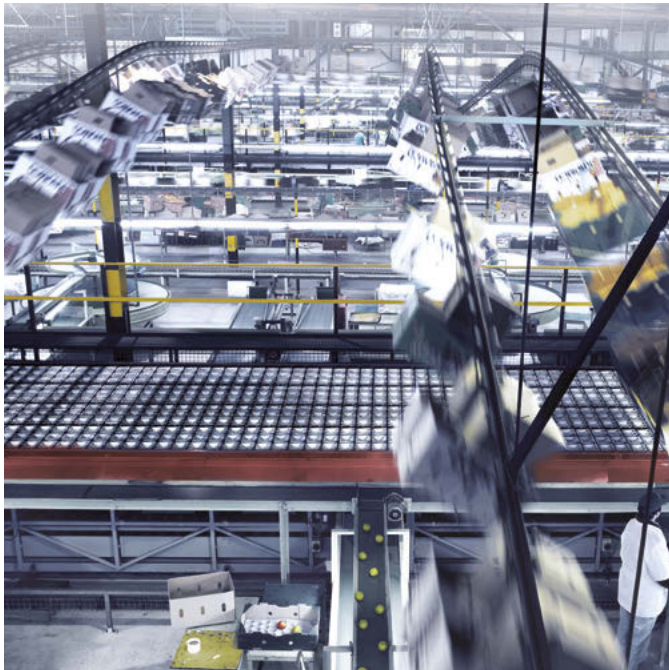
Trouble-free data traffic in complex automation systems

Our managed switches ensure optimum network performance

A break in communications may result in costly downtimes in industrial networks. High system availability is therefore crucial. Using redundancy mechanisms and extensive diagnostics options, it is important to efficiently control data traffic and to maintain reliability.

In compliance with various IEEE standards, our managed switches are ideal for the creation of redundant network structures. With the current firmware extension, the automation protocols PROFINET RT and EtherNet/IP are also now supported by all managed switch variants. The devices can thus be easily integrated into the respective engineering tools and parameterised and diagnosed via the standard software environment. In addition, the automation protocols support the prioritised transmission of data, thereby enabling real-time communication between the network subscribers.

Additional features such as loop protection, advanced VLAN functionality (hybrid VLAN) and SFP DDM transceiver diagnosis support more precise diagnosis and control of network traffic.



In globally networked parcel clearance procedures, the automated processes must be absolutely reliable. Here and in other applications, Weidmüller managed switches support reliability through efficient control of data traffic.

Your special advantages:

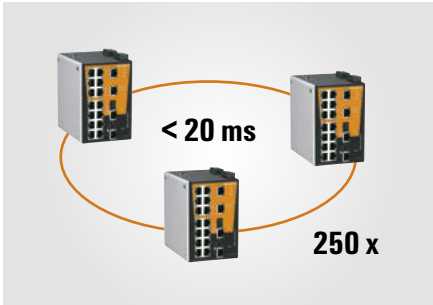
Usable around the globe

Thanks to the implemented automation protocols PROFINET RT, EtherNet/IP and Modbus TCP, Weidmüller Managed Switches support the reliability of various control networks worldwide and ensure optimum network performance.



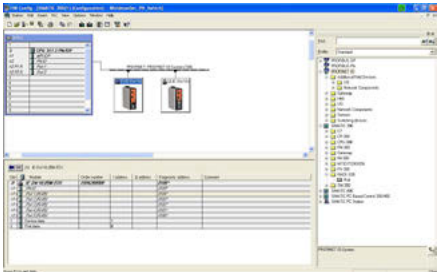
High network availability

The fast ring redundancy with a recovery time of less than 20 ms for up to 250 switches protects against failure of the entire network in the event of errors, thus increasing network availability.



Optimum integration and real-time communication

Benefit from direct access to all status information and operational functions of the switches within your familiar software environment. Integration in engineering systems such as SIMATIC STEP 7 and RSLogix is simplified considerably by the supported industry protocols PROFINET RT, EtherNet/IP and Modbus TCP.



Flexibility thanks to a wide variety of product variants

- For each application, the right switch:
- 5 to 18 ports per device
 - Fast Ethernet or Gigabit Ethernet
 - port versions in RJ45, SC, ST and SFP
 - multimode or single-mode fibre optic ports
 - standard or extended operating temperature range



Energy networks protect at the highest level

With VARITECTOR PU type I and II for 400/690 V systems

Production machinery and energy production plants are equipped with valuable technology. Of course you want to ensure that your investments are reliably protected, even if lightning strikes. The introduction of IEC/EN 61643-11 in 2012 with more stringent standard threshold values emphasises the high degree of relevance with regard to reliable surge protection.

Our response to these new requirements is the new VARITECTOR PU lightning and surge protection series. Their new type-I and type-II variants are characterised by particularly high protection against lightning damage and coupling into industrial energy networks of up to 400/690 V base. The self-monitoring surge protection devices are available in 12.5 kA or 25 kA versions. The pluggable arresters enable particularly rapid replacement, while the proven locking mechanism ensures a firm hold.

Because of the sparkover gap and voltage ranges, the vibration-proof Type I and II models are ideal for the protection of 400/690 V systems in wind turbines.

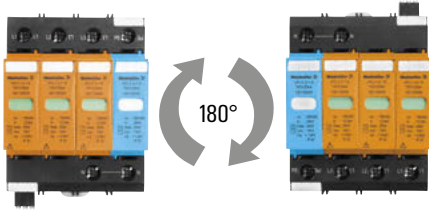


Installed at heights of over 100 metres, cabinets installed in wind turbines require particularly reliable protection against lightning damage. VARITECTOR PU offers maximum safety for industrial 400/690 V power networks.

Your special advantages:

The first surge protector conforming to IEC/EN 61643-11:2012
The particularly robust and sophisticated design has made surge protection devices of the VARITECTOR PU series the first products on the market to fulfil the requirements of the new standard

Flexible positioning in the control cabinet
According to IEC 62305, the distance rather than the line path from the surge protection module to the PE connection may only be 50 cm. The fact that you can rotate the base through 180° means that you have the highest degree of flexibility during installation, without impacting on overall visibility.



Faster to assemble
The optimised mounting rail clip enables easy and quick assembly and removal, without the need for tools.



Securely locked in position
The arrester can be heard and felt locking into the base. This enables it to comply with the exacting requirements on vibration resistance set by wind turbine plant manufacturers.



Rapid status messaging
The remote signaling contact with PUSH IN connection can be quickly connected and provides reliable information regarding the status of the protective function.



Vibration and shock-resistant connections in trains

Reduce cabling to a minimum with ZDK 2.5-2/4AN

In trains all the control signals converge in a central control cabinet. Due to space restrictions, it is essential that cabling is both efficient and space-saving. To achieve a correspondingly high connection density, components must be exceptionally compact while ensuring easy and safe installation.

Our new two-tier modular feed-through terminal ZDK 2.5-2/4AN combines a compact design with high-performance, vibration and shock-resistant connections. The terminal's tension-clamp connection allows you to easily wire four connections on two levels, thereby creating even more space in the control cabinet.

Using the appropriate test adapter you can check that the connections are correctly assigned in no time at all. Our extensive labelling options are also a big help in this regard. You can rest assured that your cabling will provide safe and maintenance-free operation.



Efficient use of confined spaces - that's what counts with installations in traffic engineering. Robust terminal blocks such as the ZDK 2.5 to 2/4AN prove their resilience on a daily basis in rail carriages all over the world.

Your special advantages:

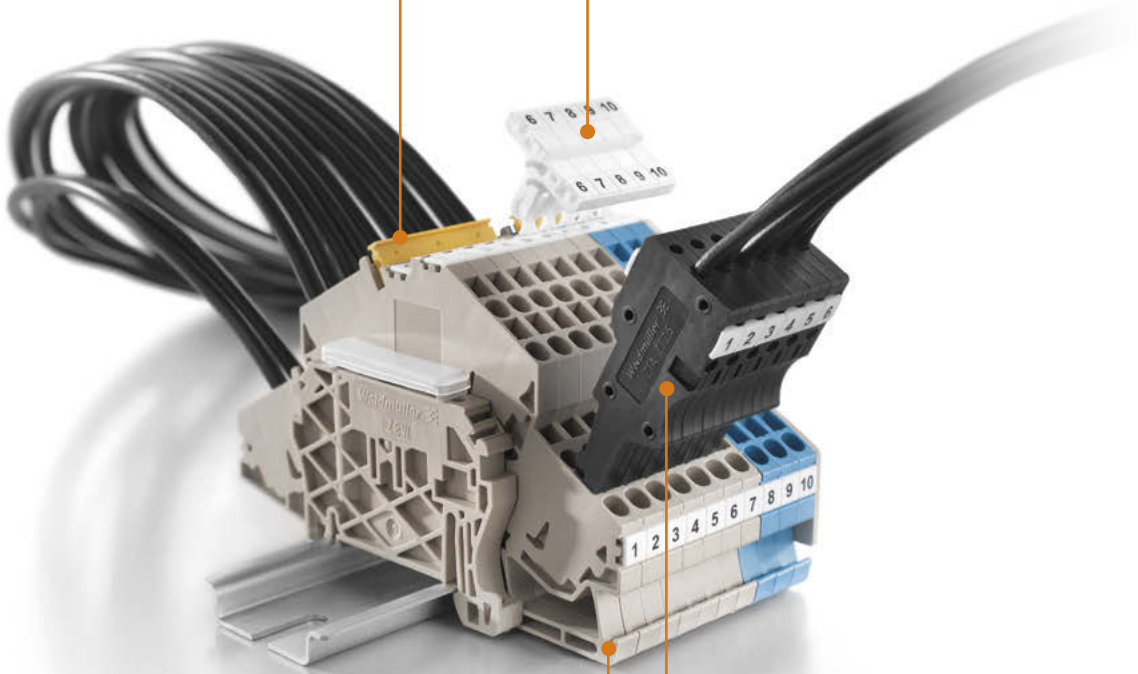
Compact design
Only 104 mm high, 62 mm deep and 5.1 mm wide - and yet ZDK 2.5 to 2/4AN can be connected to up to 8 wires.

Clear marking
With our harmonised marking system, you can label the ZDK 2.5 to 2/4AN in no time - for time savings during installation and operation of your system.

Simple cross connections
Distribute a potential across multiple terminal blocks simply, by equipping the desired connections with ZQV cross-connectors.



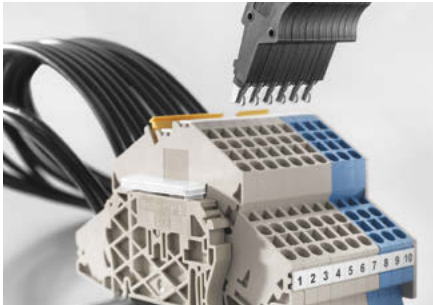
Large area marking
The cable entries per tier can be labelled with the DEK 5 standard marker. In addition, the SNAPMARK I can be used. The ZAD 1-4-2/GE is used to cover the power supply terminals.



Compact design
The special design of the ZDK 2.5 to 2/4AN allows high connection density on two tiers - for significant space savings in the control cabinet.



Testing the connections
With the test adapter, you can quickly verify that all wires are correctly connected. This prevents wiring errors and saves time later during maintenance.



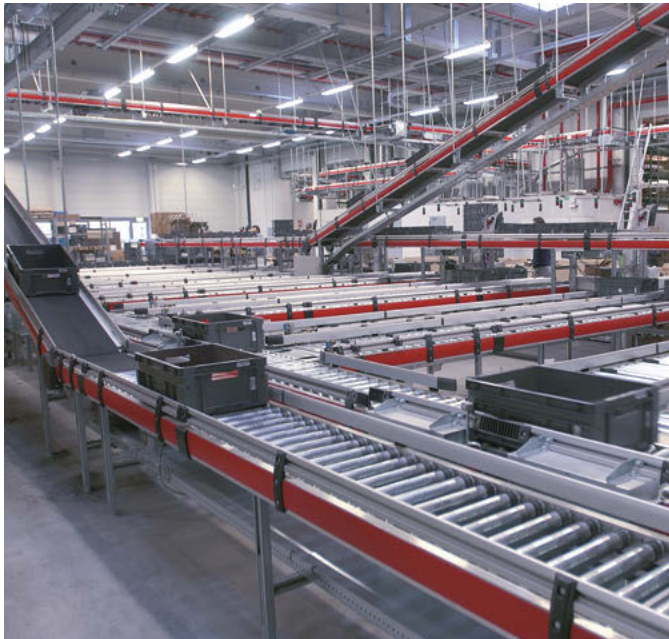
Compact distribution for motors in the field

With our pluggable M12 engine distributor SAI MVV

Large, heavy-duty connectors were previously required in order to supply motors by means of a plug-in solution. However, a power distribution solution for 400 V AC does not have to be bulky.

With S-coded M12 connectors, our new motor supply distributor SAI MVV supports distribution to four consumers with 10 A per phase. A neutral conductor connected in the hood can also be used to display the operating status of the phases. Since all components are designed for 10 A, a fuse is not required in the distributor; the corresponding fusing in the cabinet is sufficient. Together with an S-coded M20 built-in connector, you can even equip the distributor with plug-in components. With this connector, you can also equip motors and thus obtain a complete Plug-and-play solution.

Pluggable by means of M12-technology, easy to assemble and thus particularly time and cost saving, the small SAI MVV replaces your existing heavy-duty connector solution. Its advantages make it a currently unrivalled solution for motor distribution in the field.



For distributed applications, for example, with 750 W 3-phase motors, SAI MVV is the simple and cost-effective alternative to conventional systems with heavy-duty plug-in connectors

Your special advantages:

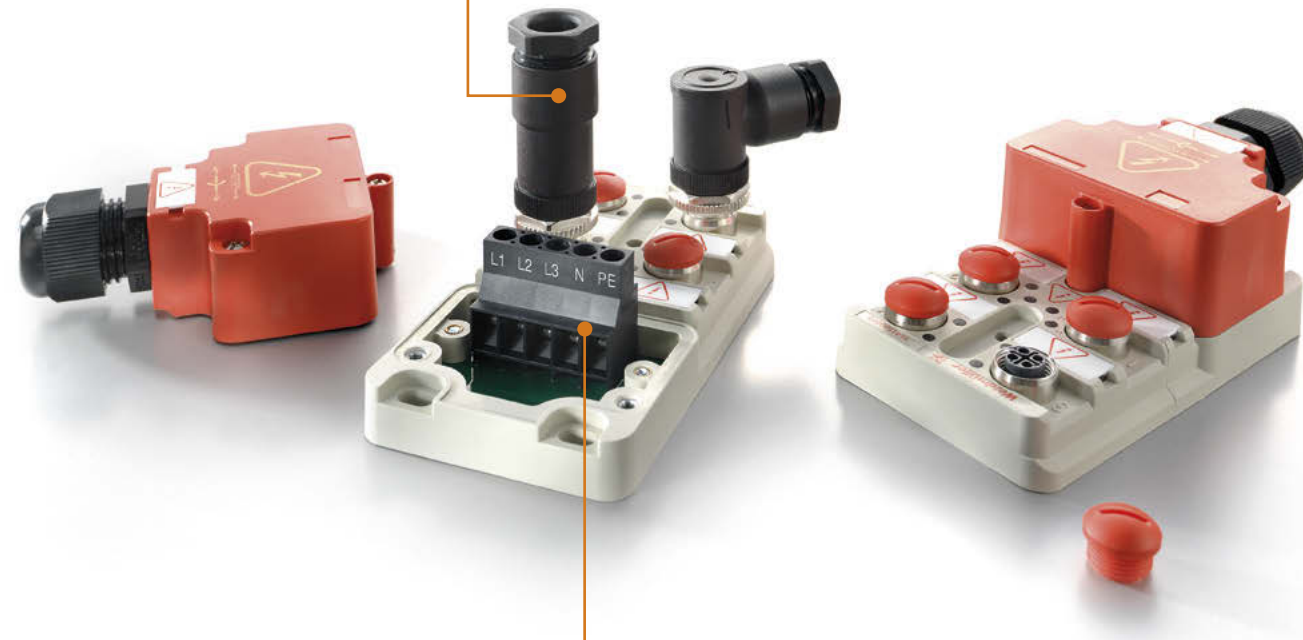
Small size, big power supply

With the exceptionally compact power distributor, you are able to control motors in the field, which impresses with its marked cost efficiency.



Feed-through wiring

The right built-in connectors for the motors and M12 lines enable a complete Plug-and-play solution.



Rapid assembly

Connection terminals up to 6 mm² minimise power losses up to the distributor.



Rapid configuration on the Internet

Using our Product Assistant, you can put together your connector solution in no time – according to your individual requirements and specifications.



Let's connect.

Compact and well supplied

With 400 V and 10 A for each connection, space-saving power supply of the connected consumers is assured.



Transmit up to 10 GBits/s with our proven M12 connectors

Field attachable and without sacrificing quality with M12 X-type

Various plugs, adapters and flanges are needed to quickly and easily connect M12 connectors of industrial plants in the field. Various additional attachment options are also required for fixing within the machine or plant.

With our new M12 X-Type range, an integrated system of field attachable connectors and flanges in socket design are now available. All components comply with the transmission category Cat. 6_A and are in compliance with IP 67.

A transmission solution for 10 GBit/s can be quickly and easily created without any special tools with M12 X-Type.



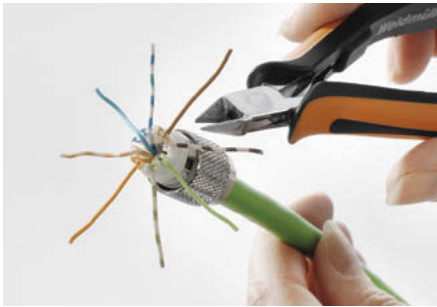
Protected IP 67 connectors enable reliable signal transmission in virtually any environment. Thus, for example, in the application of surveillance or quality assurance, where camera and multimedia signals are often transmitted outdoors or other "dirty" environments.

Your special advantages:

Radically increase transmission rate

In its proven M12 housing, with our X-coded plugs we can offer a universal system for 10 Gbit/s transmission. Compared to conventional D-coded connectors, the transmission rate is thus increased a hundredfold.

Field attachable
Thanks to our insulation displacement connection technology (IDC), manual installation is quick and easy - no special tools required.



10 Gigabit Ethernet
The Cat.6_A certification enables future-proof and high-performance Ethernet transmissions with up to 10 GBit/s.



High protection class
When plugged in, the flange and the female plug meet all the criteria of protection degree IP 67 and are thus resistant to dust and spray water.



Connection, repair or extension of Industrial Ethernet cables to Cat. 7_A
Our field attachable cable connector for 8-wire Industrial Ethernet cables only needs little more space than the cable itself. It is specified for class F_A and IP 67 and extremely easy to assemble due to the proven IDC connection technology from the M12 X-Type connector.



Safe-to-touch, solid and pluggable

Our feed-through terminals also support thick housing walls

A cable feed-through connection for housing or cabinet walls should be robust and easy to handle. This claim gets fast to a challenge when we talk about the thickness of die-cast aluminium housings.

Our pluggable panel feed-through connection SVF 7.62HP SFMF (SFBMF) in IP 20 copes this job perfectly. Thanks to the two-sided finger safety clearance of 3 mm, this solution can be used safely even in applications with backwards voltages and is therefore suitable for use in an industrial environment without an inverted mating profile. One hand is enough to plug the counterpart BVF 7.62HP 180 MF and to latch them.

Feel free to use this universal plug device at control cabinets. Or use it for the power-input and power-output connection of electronic housings.



Our flexible, plug-in supply connections reduce installation and service costs in the signal range up to 41 A. They thus address the much increased demands in the field of signal processing devices, such as photovoltaic inverters.

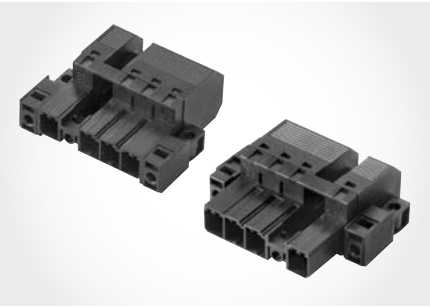
Your special advantages:

Back-to-back

Our plug-in panel feed-through is particularly impressive with automatic locking and the ability to couple two plug-in mating partners.

Panel feed-through up to 16 mm as per UL

Without additional measures for maintaining the clearance and creepage distances as per UL, two versions for walls up to 2 mm or up to 16 mm are available. The maximum wire cross section is AWG 8 or 10 mm².



One-handed operation with locking

The mating partner BVF 7.62HP impresses with its one-hand operation and automatic snap-in. If required by a directive, it can be optionally secured with an additional screw.



Pin number extension to > 4 pins

Use our SVF/BVF 7.62HP COUPLE SET for extensions. Each of the two mating partners can thus be connected back-to-back to a 2-row connector with a maximum of 2 x 4 poles.



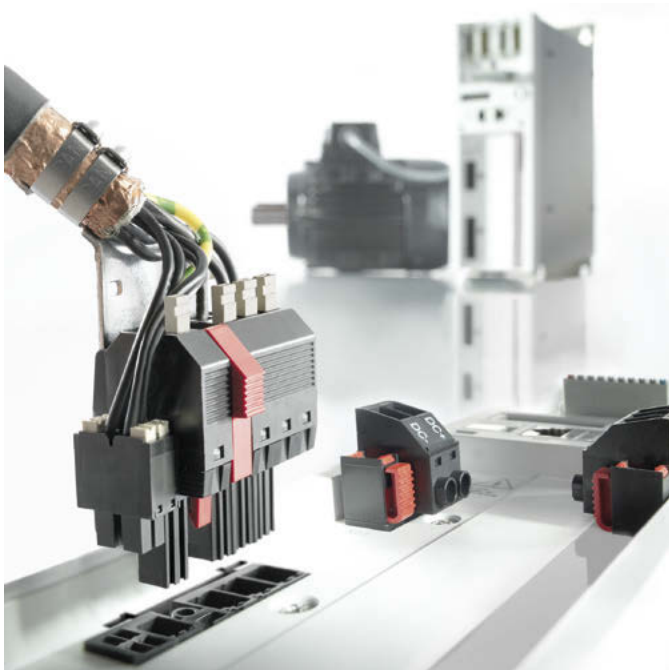
Convenient connection of stripped short wires

OMNIMATE Power with openable “PUSH IN” connection

Shielded cables for power electronics are stripped as short as possible for reasons of electromagnetic compatibility (EMC). Connection with large “PUSH IN” connectors is correspondingly complex. The same applies to cables with small cross-sections where often a “third hand” is missing or the use of special tools gets necessary.

Our BVFL 7.62HP simplifies and accelerates this process without the need of special tools. The combination of “PUSH IN” connection technology and a Pusher which can be locked in the open position allows an easy insertion of short stripped cables or of thin wires into the open terminal point. Subsequently, by pushing the pusher sideways with the hand, you can simply unlock the pusher.

The proven “PUSH IN” function remains unrestricted, while the in open position fixed terminal point allows a comfortable and easy connection under difficult conditions. Make use of the significant time savings to reduce your installation costs.



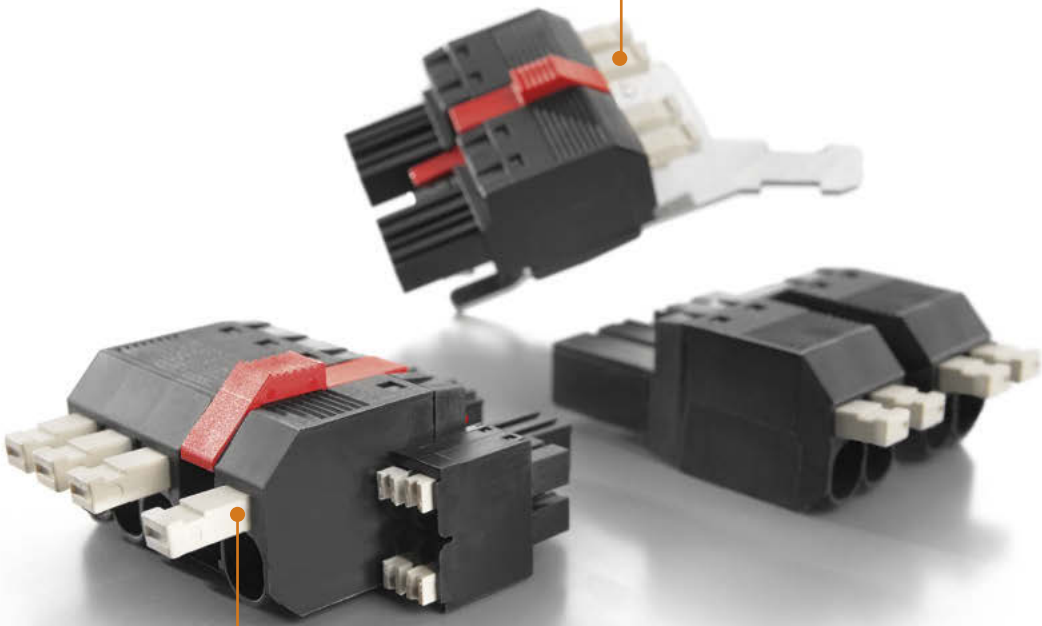
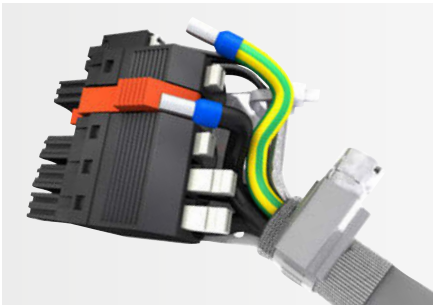
Work quickly while avoiding errors - convenient connectivity solutions with latchable open terminal point reduces the installation time in the field significantly for example in frequency inverters

Your special advantages:

More advantages in handling, reduced installation costs
As the only “PUSH IN” connector so far available on the market, our BVFL 7.62HP has a special clamping point that can be locked in the open position.

Short-stripped wires

The “PUSH IN” connector with a pusher in an open fixed position allows a quick and easy wiring without special tools. It also avoids the risk of a not fully inserted conductor.



Large “PUSH IN” connector, small wire cross-section
Even with ferrules, because of the high flexibility it is difficult to insert conductors with a low cross section into these connector. Our simple solution in three steps:
1) Open the terminal point
2) Insert conductors
3) Close the terminal point using sideways pressure



Ergonomic operation and simple front design

OMNIMATE Power opens up new 270° perspectives

With modular devices, the PCBs are often perpendicular, i.e. located on the right and left, close to the housing wall. Hence the need to arrange the male header in the device so that it points to the middle.

To avoid the need to change the direction of access during installation, we have developed a 270° male header. The combination of two opposing PCBs inside the housing, one with a 90° and the other with a 270° pin header. This allows you to keep the screwdriver comfortably in your right hand when wiring.

In addition to the ergonomic operation without the need to change hands, the consistent alignment of the connections also means that the layout of the front panel is particularly simple and clear.



The solder flange solution for the pin connector on the PCB and the possible flange fixing of the plug section simplify the use of complex device applications with high mechanical demands

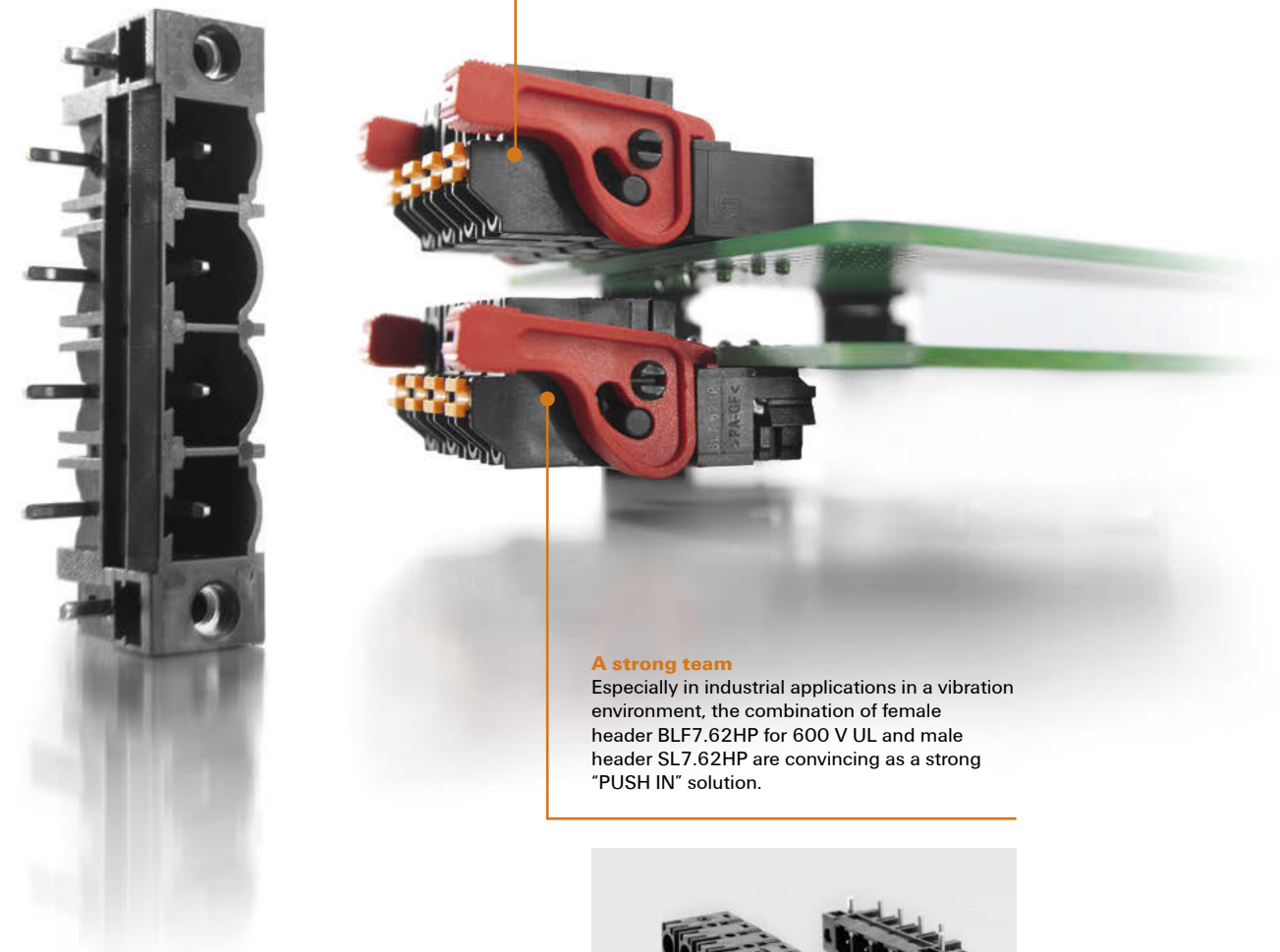
Your special advantages:

Compact and powerful

We offer you the smallest plug-in "PUSH IN" connection solution for field wiring up to 600 V UL with a connection cross-section of AWG 12 (2.5 mm²).

Simple design, standard operation

All "PUSH IN" connection components on the front panel are aligned in the same direction thanks to the 270° male header. This allows a continuous operation with the right hand.



A strong team

Especially in industrial applications in a vibration environment, the combination of female header BLF7.62HP for 600 V UL and male header SL7.62HP are convincing as a strong "PUSH IN" solution.



Release and lock with the turn of a lever

Particularly safe and space saving with OMNIMATE Signal

A reliable locking system is one of the main prerequisites for safe operation of your equipment. However, increasingly compact formats and greater connection density complicate the handling of plug-in connectors on the front panel. An increasing number of poles also requires greater force when detaching the plug.

With these challenges in mind, we have revised the design of the lock & release levers of our plug-in connector system OMNIMATE Signal. The result is a quick-action, self-locking system with the male header, intuitive handling without tools and a gentle release of the socket connector that is easy on components simply by turning the lever.

Find out for yourself how we as a pioneer of the device connection technology and inventor of the "Lock & Release" lever have further optimised the locking system of our OMNIMATE Signal plug-in connectors.



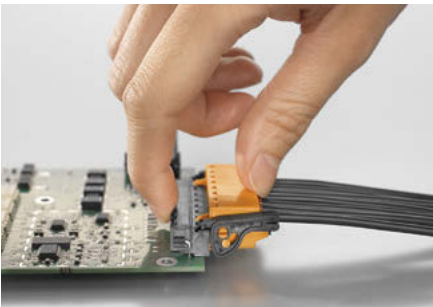
Operator safety and ease of handling of our lock & release lever convince in every installation situation. Once locked, our connector resists even vibration and shock loading.

Your special advantages:

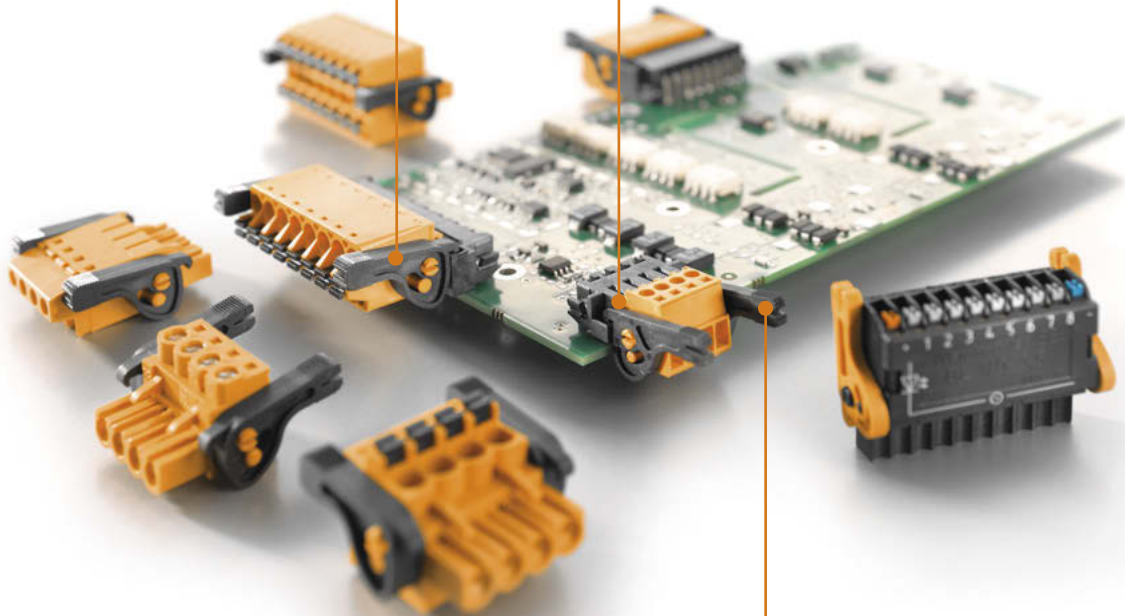
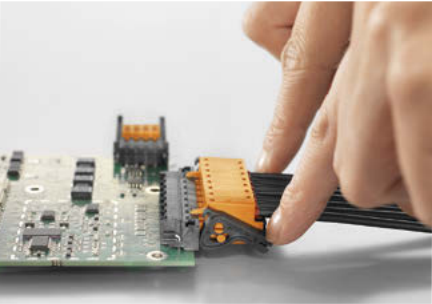
Easy handling
Intuitive and tool-free: Due to the extended lever you can remove the connector easily - even in confined spaces.



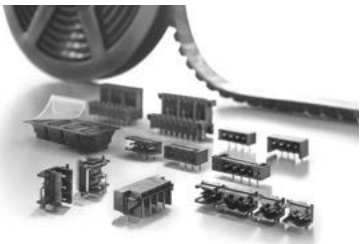
Secure locking
Directly during insertion, the connector engages automatically with the male header. Based on the position, you can verify that it is firmly in place, at a glance, by a visual control.



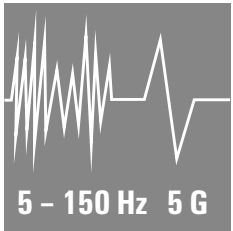
Gentle unlocking
When the lever is actuated, the female connector is released gently from the component assembly - and this significantly reduces the mechanical stress on the solder joint.



OMNIMATE Signal male connectors
The lock & release lever variants of OMNIMATE Signal connectors can be combined with a wide variety of Weidmüller male headers. Whether with wave soldering or fully automated in the SMT process.



Additional security
Locking ensures extra secure hold – even under extreme loads due to vibration and shock.



Maximum power reserves for your PCB connection

With the “HC-upgrade” of our OMNIMATE PCB-connectors in pitch 5.0x

In applications such as power electronics or motor outputs, an increasing amount of power is transmitted directly to the PCB. Plug-in connectors used in this situation must still have power reserves to withstand the load reliably even at higher temperatures.

We address this increased demand on the current carrying capacity with a “High Current (HC) Upgrade” for our PCB-connectors. In combination with the corresponding HC male headers for wave soldering or as an SMT variant, we obtain current values above the market average for our proven wire connection technologies such as PUSH IN, screw or TOP connection.

Move up to the new standard. Our HC plugs offer connection cross-sections of up to 2.5 mm² and are suitable for rated currents of up to 16 A or more (according UL 1059).



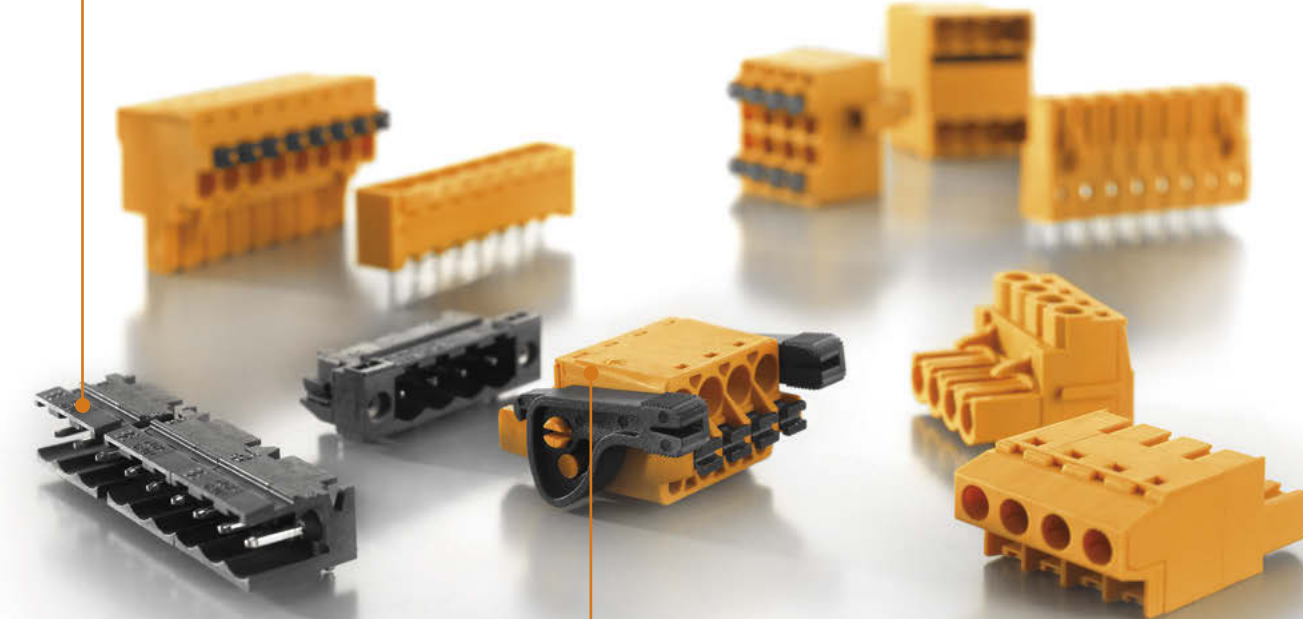
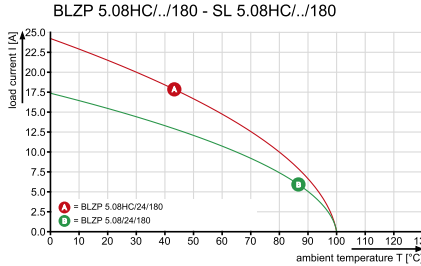
Weidmüller is addressing the trend towards more power transmission on the PCB among others with the “HC-upgrade” of the signal plug-in connectors in the 5.0x grid - in this case, for example, when operating with the “Power Monitor”

Your special advantages:

New market standard at no extra price
No new part numbers.
No extra price.
Nevertheless tested extensively in our lab for you and established as the new standard in pitch 5.0x.



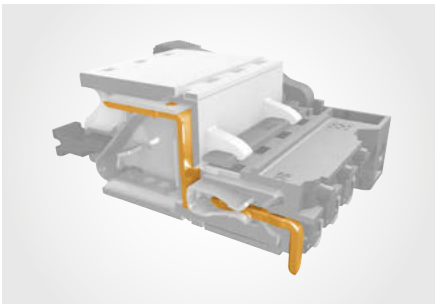
35 % more power reserves
By using high-current performance metals, you can obtain additional power reserves to 16 A and more.



Absolutely compliant with existing standards
Since all the part numbers of the converted connectors have been retained, recertification of existing standards is usually not required.



No impairment of proven properties
You do not need any additional contact elements, such as reinforced springs, to ensure effective power transfer. Pull and push forces are therefore not adversely affected.



Cut cables safely, free from burrs and with little effort

KT-cutting tools impress with protective handles rated up to 1,000 V

When cutting cables, it is not only a smooth finish that matters. You also want to be protected if you inadvertently cut a cable that is still energised.

Thanks to its protection handle tested in accordance with VDE 1,000 V, you always play safe with our insulated hand tools. If current is still flowing, then the risk of a short circuit arc between two cable ends at different potentials is significantly reduced. In addition, the slip protection provides extra strong hold.

Thus our KT cutting tools also cut thicker cables cleanly and free of burrs - safely.



First choice for industrial indoor and outdoor environment: The mechanical drive and specifically designed blade shape of our tools reduce the need for manual force to a minimum

Your special advantages:

Consistently high quality of workmanship
With the “tool certification” service, we vouch for the functionality and quality of our tools - even after many work cycles.

Clean, burr-free cutting result
Similar to a pair of scissors, the specially shaped cutting edges intersect. They therefore separate even larger cross sections clean and free of burrs, without deforming the conductor.



Safe with every cut
Our tools are VDE tested and reduce the risk of a short circuit arc, if a cable is energised.



Ergonomic handling
With our KT cutting tools, you disconnect cables with a minimum effort. The ergonomic handle facilitates handling during each cut.



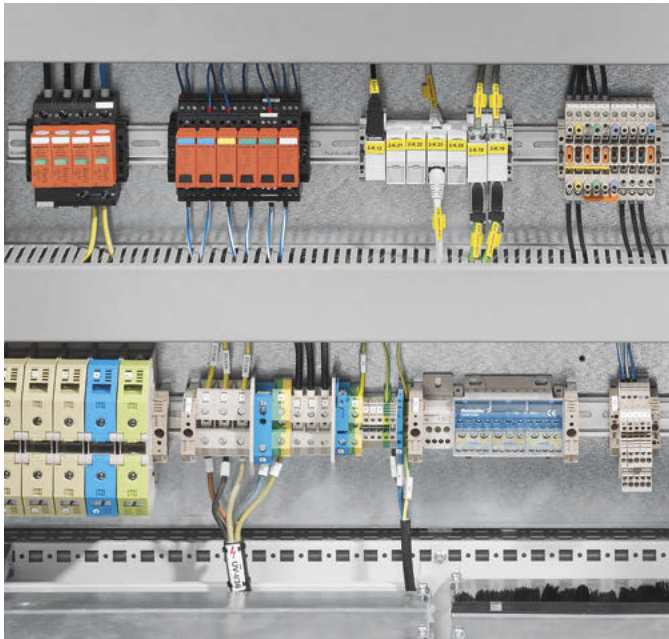
High repeatability with each screw connection

With cordless screwdriver with automatic torque limitation

Even in the installation of a single cabinet, hundreds of compounds have to be screwed. Working with a manual screwdriver is time consuming and tiring. In addition, there is no guarantee that each connection is tightened with the same torque.

With our DMS Pro cordless screwdriver, you fasten each screw professionally and with the same tightening force. Thus, not only a professional installation – also later maintenance is made easier. Thanks to the simple one-handed operation, you save time for every screw connection.

Be convinced by the high repeatability by the electronic shut-off clutch of the DMS Pro – for consistently precise screwing.



Whether during installation or maintenance - with a defined torque, each screw is properly tightened and additional time is saved

Your special advantages:

The right solution for every requirement
Exactly the right torque – this is essential when accurate and effective work, as well as repeat accuracy are required: when tightening sensitive and expensive components during installation, the final inspection or during quality checks. The perfect task for our wide selection of professional screwdrivers!

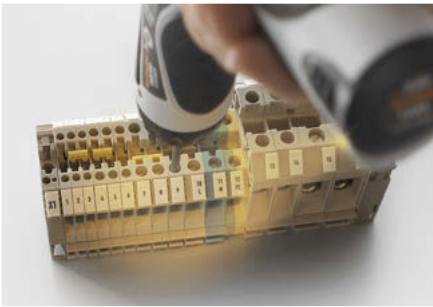
Easy handling
The DMS Pro, with its 500 g and the non-slip rubber handle, fits snugly and securely in your hand. This means you work ergonomically and prevent rapid fatigue.



Consistent torque
Thanks to the electronic shut-off, the DMS Pro turns off when the set torque is reached. You are therefore assured that every screw is connected with the same torque even if the battery is nearly flat.



Illuminated screwing point
The LED work light illuminates the work area of the DMS Pro and helps you to find screws faster and easier in dark areas.



Handle large cable cross-sections easily

Crimping tools and cable lugs for large cross-sections

Wherever energy is produced and transported, cables with large cross sections are used to keep the losses to a minimum.

Establishing long-lasting connections in this environment requires crimping tools and cable lugs that fully meet this requirement. With our harmonised product range, you create the best connections between cable and cable lug, where normal hand tools cannot cope with the cross sections.

Obtain your crimping tools and cable lugs from a single source – suitable for various applications in energy distribution and supply.



Neat and durable crimp connections support a loss-free energy transfer with low contact resistance

Your special advantages:

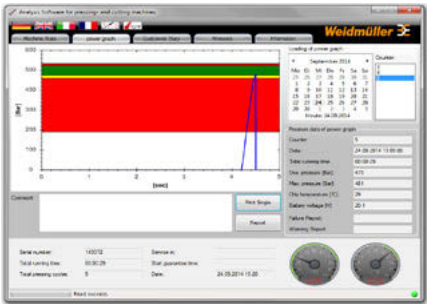
All from a single source
By the expansion of our cable lug range including processing tools you get a coherent overall package for your application.



Always the safest connection
Since the proportion of copper in the cables cables is measured by the resistance, conductor cross-sections may be different than stated. Notwithstanding this, with our crimps sets and cable lugs you are assured of a secure connection.



Integrated function monitoring
Thanks to the supplied software, you can easily control and document the functionality of your tools. So you are certainly always ready for operation.



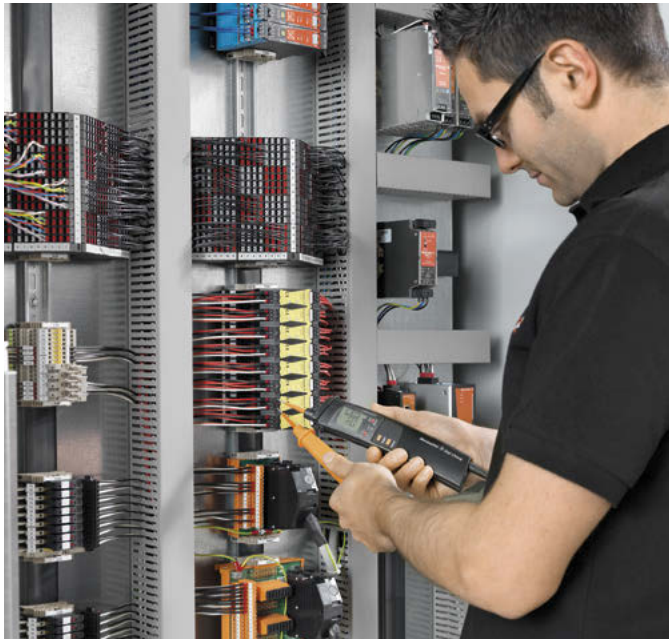
Simple testing in compliance with standards

With our 2-pole voltage tester including integral buzzer function

A 2-pole voltage tester belongs to every electrician's standard equipment. As well as determining the absence of voltage, voltage measurement over a wide measurement range in conformance with standards, phase sequence measurement or load connection, simple operation and good readability also play an important role.

Our 2-pole voltage testers are certified to current standards and are flexible in their use. The practical buzzer function makes them easier to use and handle. Protection class and overvoltage category requirements are not only fulfilled, but also exceeded.

Many other advantages await you, such as practical one-handed operation, visual and acoustic continuity testing, phase sequence indicator, frequency display, load connection and an integral battery opener.



Our safe tools are particularly in demand in machine construction where rapid response to system faults is essential. With a two-pole voltage detector, all essential functions, such as absence of voltage, frequency, continuity or rotational field, can be checked in an instant.

Your special advantages:

Useful features for more comfort

The new buzzer signal and the multi-functional frequency and phase sequence indicator facilitate plant testing. The large measuring range starts as low as 0.3 V.

Longer battery service life thanks to a light sensor

An integral light sensor detects ambient illumination and only switches the backlit display if the environment is dark - resulting in a far longer service life.



Ready for all environments

The housing offers a perfect seal against dust and water spray. With our IP 65 certified voltage testers you are always on the safe side.



Universal application

Thanks to its wide measurement range of 0.3 V - 690 V, the voltage testers are suitable for all-purpose usage. DC and AC voltage are automatically detected.



Diverse testing options

The voltage testers offer the options of testing voltage and continuity both visually and acoustically. Phase sequence and frequency can also be displayed.



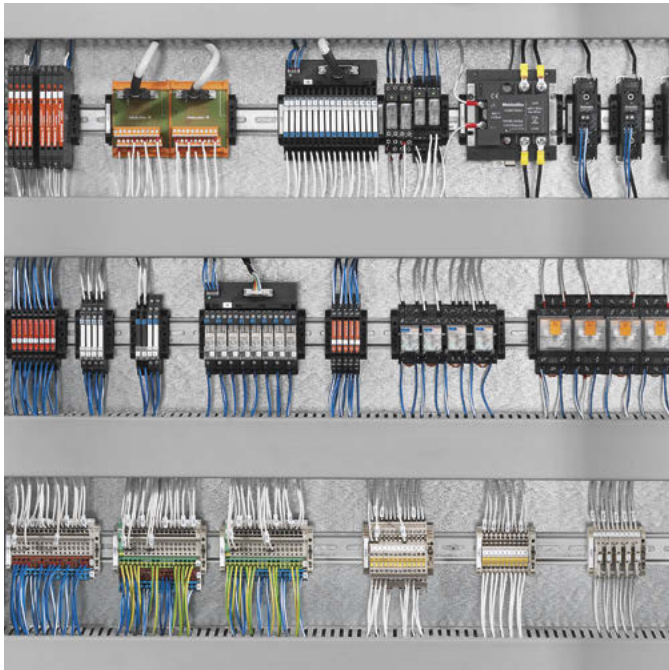
A wide variety of marking options

MultiCard extension for even greater consistency

A clear marking system not only helps you during installation, but also facilitates the subsequent maintenance and troubleshooting during operation. The marking of different devices, equipment, or terminal blocks with a consistent system is especially convenient.

With the consistent extension of our MultiCard options even more professional marking options are now open to you. New formats for plant identification or suitable for certain types of terminal blocks help you create exactly the right marker for each application.

Benefit from the seamless process chain from entering your data to instantly deployable markers for your custom cabinet configuration.



Clear marking in the cabinet helps users find their way around more easily and facilitates system installation and maintenance. Individual modules can be easily replaced and the system can be put back into operation in case of failure faster.

Your special advantages:

Systematised marking

Our harmonised system of software, markers and printers allows you to optimise processes - from entering your data to the finished marker for the individual control cabinet configuration.

Clear device marking

Half the size of a credit card and yet big enough to contain all the relevant information: The CC 85/27 MC ClipCard makes you more flexible in marking your devices.



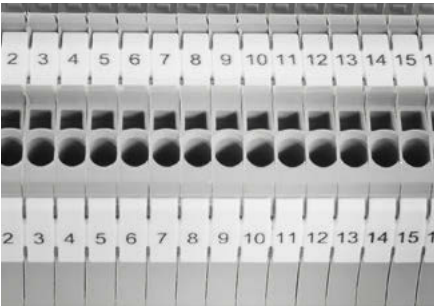
Simply marking relay bases

With the MultiCard marker ESG 9/26 SCM ECO MC for the first time you can mark relay bases of our D-SERIES (types SCM 2CO ECO and SCM 4CO ECO) with the PrintJet ADVANCED.



Many manufacturers, one printing system

With the MultiFit variants MF 5/3.5 MC and MF-W 9/3.5F MC, you can flexibly marker connectors from different manufacturers. In this way you can take care of all your marking needs with only one system.



M-Print® PRO

This complete system is highly customisable – our M-Print® PRO software can be used to independently create your own custom marker layouts.



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.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. On demand we can also send the general terms of delivery to you.

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.

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