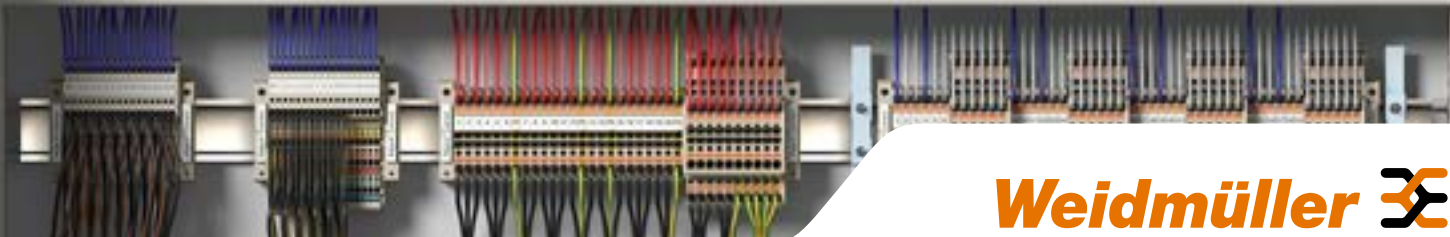


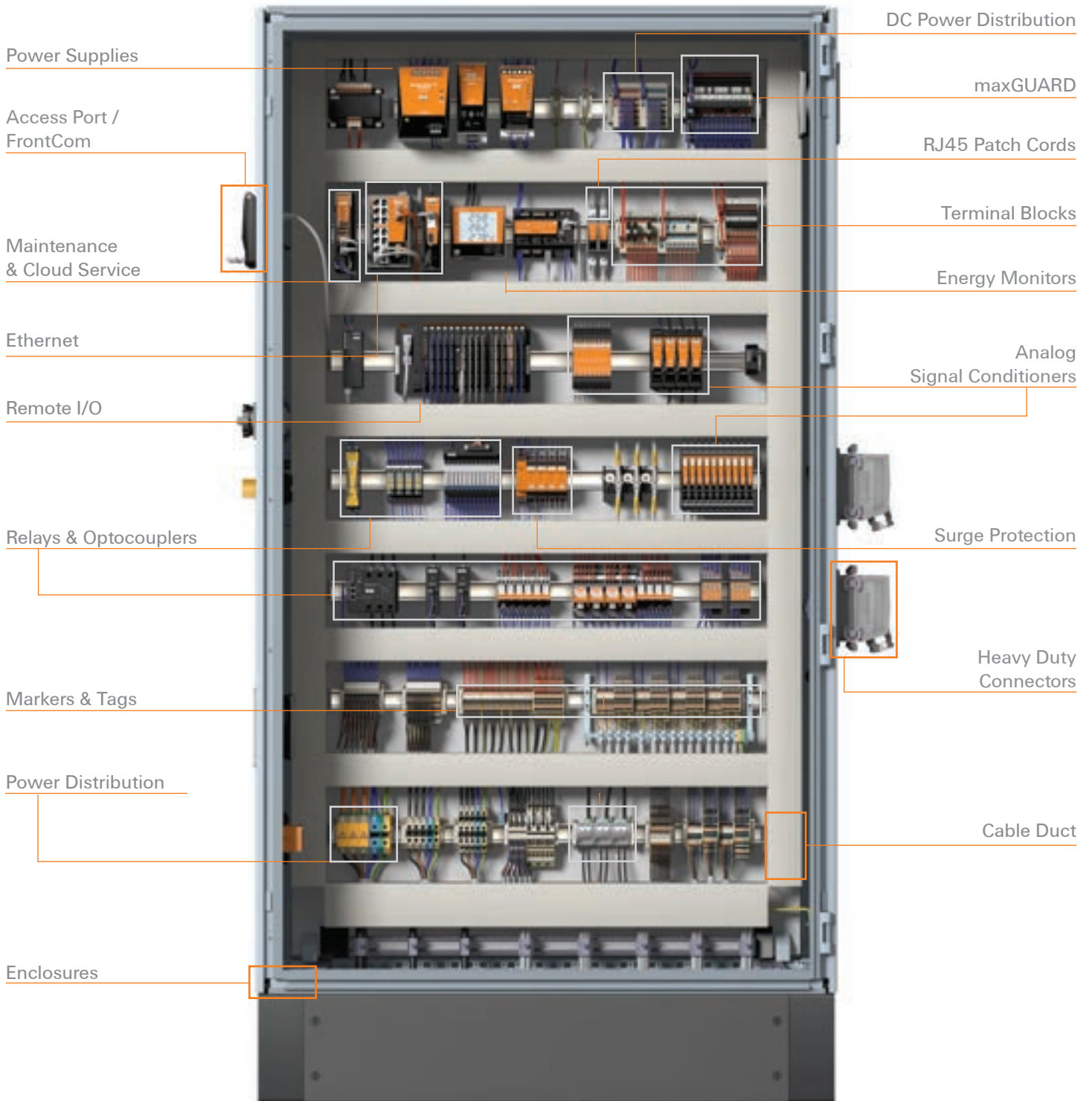
# Industrial Connectivity

## Short Form Catalog

North America

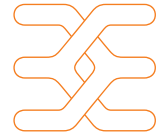


# Weidmüller



**Weidmüller – Your Solution Partner in Industrial Connectivity**

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## Who We Are

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.

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

Together we set standards in Industrial Connectivity.

Let's connect.





# Industrial Connectivity Portfolio

## Power

### Stud Terminal Blocks

- IEC finger safe design with integrated hinged covers
- UL/CSA rated for 1000V/85-500A/14AWG -600MCM
- Power distribution via 2 and 3 pole bus bars
- Vibration resistant; fixed washer/nut assembly
- Over 15 configurations available



Modular Terminal Blocks

### AC & DC Power Monitoring

- For voltage distribution or load monitoring
- Single or 3-phase voltages
- AC current up to 500A
- Isolated analog or relay outputs
- cULus and Class/Div approvals



Analog Signal Conditioning

## Signal/ Control

### Terminal Blocks

- Global approvals: UL, CSA, IEC, Gost
- Screw, tension, PUSH IN and IDC terminations
- UL 508A SCCR approved
- Fuse, feedthrough, ground, disconnect
- Self-locking screw clamp system



Modular Terminal Blocks

### Fuse Terminal Blocks

- 5 x 20/25mm, 1 1/4" x 1/4", 13/32" x 1 1/2" and midget
- Blown fuse indication
- Low leakage terminals (0.5 mA)
- 100% vibration resistant
- Self-locking screw clamp system



Modular Terminal Blocks

## Data/ Automation

### Industrial Ethernet Connectors and Cables

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



Industrial Ethernet

### Industrial Ethernet Switches

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



Industrial Ethernet

## Decentralized to Cabinet Connections

### RockStar® Heavy Duty Connectors

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



RockStar® Heavy Duty Connectors

### Klippon® Protect Enclosure System

- ATEX, IECEx, UL50, UL Ex
- IP66 ingress protection (NEMA 4/4X)
- High temp gaskets -50° C to +135° C
- 1 to 4 gland plate configurations
- 316L stainless steel - 304 mild steel painted



Enclosures and Cable Glands

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



### Power Distribution Blocks

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



Modular Terminal Blocks

### Power Supplies

- Ranges from 0.5A to 40A
- Redundancy options
- AC and DC input voltages
- Single and 3-phase versions
- UPS Control units/ Battery backup units
- DC-to-DC converters



Power Supplies

### Circuit Protection

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



Circuit and Surge Protection

### Migration & Interface Solutions

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



Interface Units & PLC Solutions

### Mechanical and Solid-State Relays

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



Relays and Optocouplers

### Analog Signal Conditioning & Isolation

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



Analog Signal Conditioning

### Maintenance and Cloud Service

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



Remote Maintenance

### Remote I/O IP67 (SAI)

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



Remote I/O

### Wireless Ethernet

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



Wireless I/O & Ethernet Connectivity

### Decentralized Automation & Power Distribution – FieldPower®

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

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



FieldPower® power bus system

### Cabtite® – Through-Wall Wire Systems

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



Enclosures and Cable Glands

### Sensor Actuator Connectors & Cordsets

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



Sensor Actuator Interface



Power

### Over Voltage Protection

- Fully supports North American standards UL 1449 4th Edition
- All Power network grid types and voltages 1-, 2-, and 3-phase systems
- Heavy duty, reliable, and pluggable arrester with locking mechanism
- Centralized and wide control window
- Optional remote signaling contact
- Fast DIN-rail mounting by means of special mounting clip



Surge Protection

### AC Receptacles

- Simplex and duplex
- GFCI
- UL508A approvals
- Assembly-free
- DIN-rail or panel mountable



Industrial Connectivity

### OMNIMATE® Power

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



PCB terminals and connectors

Signal/Control

### maxGUARD

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



Electronic Load Monitoring

### Surge Protection

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



Surge Protection

### OMNIMATE® Signal

User-friendly connection technologies from clamping yoke screw connection to PUSH IN spring connection. Weidmüller offers a wide range of reflow compatible products for automated SMT processes.



PCB terminals and connectors

Data/Automation

### Wireless I/O & Gateways

- 900MHz FHSS
- Transceiver and unidirectional units
- Full 1W of broadcast power
- Modular I/O design
- 20+ mile range
- Meshing and self healing networks
- 900Mhz / 400Mhz



Wireless I/O and Ethernet Connectivity

### Lightning & Surge Protection

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



Surge Protection

### OMNIMATE® Data

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



RJ45, USB & D-Sub Connectors

Decentralized to Cabinet Connections

### u-mation Controller

- u-control 2000 is one of the most compact and state-of-the-art control systems on the market and is the centerpiece of our hardware portfolio.
- The controllers modular design is based on the remote I/O system u-remote, and allows for needs-based expansion to include other components from the u-mation family



u-mation

### Remote I/O

- The 11.5mm width saves space and delivers flexible design options
- Status LEDs enable rapid error detection and reliable diagnosis
- High-speed station bus offers high performance and real-time mapping
- Simple, convenient markers for clear visible module identification
- The Plug and Go setup speeds up installation
- IoT and web controllers in the same footprint



Remote I/O

### OMNIMATE® Housings

Modern electronics housings for diverse application areas. The CH20M product series has high scalability with seven widths from 6.1 to 67.5 mm.



Modular Electronic Housings

### OMNIMATE® Service

From technical specifications, through development and design, to approval and series production, our OMNIMATE® Services can considerably reduce your project expenditure and time to market.



Design-in Services

## Tools

## Cutting

- Cut copper and aluminum cables and wire up to 1260 kcmil.

**KT 8**

- Cuts wire up to 6 AWG
- Blade shape prevents wire distortion

**KT 45R**

- One-hand operation
- Suitable for non-pinch cutting of copper and aluminium conductors



## Screwdrivers

- Available with standard or VDE insulated handle.
- Hardened high-alloy steel tips
- Soft-finish grip handles for comfortable handling



## Automatic Machines

- Our automatic machines optimize installation time and streamlines the manufacturing process.
- Cutting Machines
- Stripping Machines
- Crimping Machines
- Stripping and Crimping Machines



Tools

## Stripping

- Quick and accurate stripping with no damage to single conductors.

**Stripax® Ultimate**

- Strip hard, halogen-free cable insulation with ease from AWG 26... 10

**AM 25**

- Strips PVC insulated cables, 0.18" ... 1.0" diameter
- Lengthwise or spiral cuts



## Crimping

Precise crimp with minimal force.

**Stripax® Family – 3-in-1 Tool**

- Cuts, strips and crimps linked wire ferrules from 20...14 AWG
- For PVC insulated wire

**PZ 6 Roto L**

- Crimps wire-end ferrules from 24...10 AWG
- Wire insertion from side or front



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

- Wire end ferrules ensure a secure and reliable connection.
- 3 color codes available
- Loose, strips, reels and assortments from 24 AWG – 300 MCM



Tools

## Marking Systems

## Printing Systems

**Thermal MultiMark**

- MultiMark is the smart all-in-one solution for the entire cabinet
- Systemised, economical marking

**PrintJet ADVANCED**

- Weidmüller's industry-leading marking system
- First full color printer for MultiCard markers
- Print on plastic or metal cards

**MCP Plotter**

- Print over 160 MultiCard types quickly and easily, using Weidmüller's M-Print Pro® software



## Marker Format Types

**Terminal Markers**

- Terminal blank identifiers for Weidmüller terminals and other manufacturers' terminals

**Wire and Cable Markers**

- Heat Shrink
- Self-adhesive Wrap Around
- Stainless steel

**Device Markers**

- Placard and electrical
- Actuator and contactor
- Switch and push button
- Relays and circuit breakers



Marking Systems



# Weidmüller Services & Promotions

## Weidmüller Configurator

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

- Minimization of failures
- User-friendliness
- Easy documentation
- Greater flexibility in your project planning



More information:

[www.weidmuller.com/wmc](http://www.weidmuller.com/wmc)

## Engineering & Visualization Tools

### u-create studio

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



### u-create web

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



More information:

[www.weidmuller.com/software](http://www.weidmuller.com/software)

## HDC Speedline® 48hr Quick Ship

### Speedline® Service

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



More information:

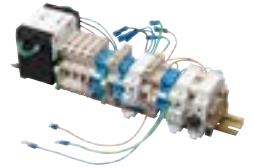
[www.weidmuller.com/speedline](http://www.weidmuller.com/speedline)

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

## Engineered Solutions

### Rail Assemblies

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



### Engineered Enclosures

- ATEX, UL, CSA and NEMA certifications
- Wireless assemblies
- Custom junction boxes
- Design, assembly and wired solutions
- Combiner boxes for photovoltaic systems



### Custom cable assemblies

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



More information:

[www.weidmuller.com/assemblyservices](http://www.weidmuller.com/assemblyservices)

## OMNIMATE® Services

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



### AppGuide

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



### 72-hour sample service

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



More information:

[www.weidmuller.com/omnimate-services](http://www.weidmuller.com/omnimate-services)

## Orange Selection

**Program offered by Weidmüller Germany.** Products of the Orange Selection are always available.



More information:

[www.weidmuller.com/orange-selection](http://www.weidmuller.com/orange-selection)

# Industry Applications

## Our Industries

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

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

## Markets & Industries

### Distribution

- Service excellence for our customers

### Automotive & Robotics

- Digitization and flexibilization of vehicle production along the value stream

### Food & Beverage + Packaging

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

### Intralogistics

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

### Elevator & Escalator

- Going up and down in a reliable, energy-efficient and data-driven way

### Wind

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

### Traditional Power

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

### Transmission & Distribution

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

### Marine

- Comprehensive connectivity solutions that secure the extensive possibilities of digitalization

### Railway

- Design the transport of the future with our modular systems

### Oil & Gas

- Securing operations with networked solutions for the process industry

### Device Manufacturer

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

### Water & Wastewater Treatment

- Efficient water treatment: Application-specific solutions for the water and wastewater industry

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

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

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

More information: [www.weidmuller.com/industry](http://www.weidmuller.com/industry)



# Connectivity



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

# Heavy Duty Rectangular Connectors

Connectivity: Field Wiring



## Exceptional performance in any environment

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

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

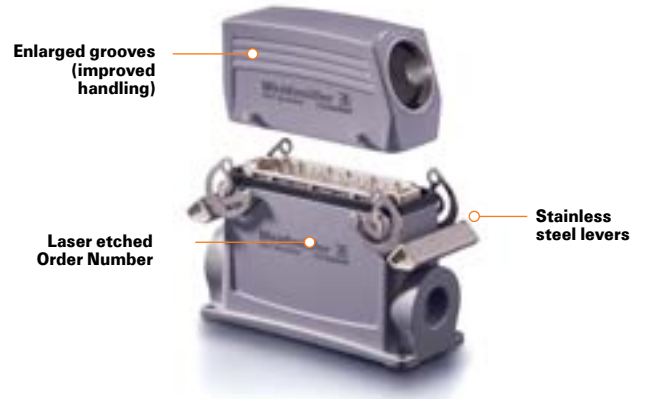


# Heavy Duty Rectangular Connectors

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

### HDC Assembly features:

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



## HA Series Compatible

### SlimLine Series



### SlimLine HDC Kits

### Kits Include These Components

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

\* Bulkhead Housing and Hood are metal; Glands are brass

Housings	Size	Order Number	Bulk Head	Order Number	Hood	Cable Entry
	1	1497600000	HDC 04A ALU	1788820000	HDC 04A TOLU 1M20G	top M20
	1	1788830000	HDC 04A SLU 1M20G	1652470000	HDC 04A TOLU 1PG11G	top PG11
	2	1021450000	HDC 10A ALU SL	1967660000	HDC 10A TSLU	Side M20
	5	1664920000	HDC 16A ALU	1041760000	HDC 16A TSLU 1M20G	Side M20

Inserts	Size	Male	Female	Pole count	Connection Type
	1	1498100000	HDC HA 3 MS	1498200000	HDC HA 3 FS 3 Screw
	1	1498300000	HDC HA 4 MS	1498400000	HDC HA 4 FS 4 Screw
	2	1650610000	HDC HA 10 MS	1650620000	HDC HA 10 FS 10 Screw
	5	1650770000	HDC HA 16 MS	1650780000	HDC HA 16 FS 16 Screw
	5	1896800000	HDC HA 16 FT	1896830000	HDC HA 16 MT 16 Tension Clamp

## HE Series Compatible

## Standard Series



## Standard HDC Kits

## Kits Include These Components

Screw-Clamp Order Number	PUSH IN Order Number	Poles	Description	Inserts (Screw) Female Male	Inserts (PUSH IN) Female Male	Bulkhead Order Number	Hood Order Number	Gland Order Number
1712460000		6 + Grnd	HE 6 Pin Kit, w/PG16 side entry, Alum.	F-1200200000 M-1200000000		1202100000	1652520000	1569100000
1712660000		6 + Grnd	HE 6 Pin Kit, w/PG16 top entry, Alum.	F-1498400000 M-1498300000		1202100000	1652640000	1569100000
1712510000		10 + Grnd	HE 10 Pin Kit, w/PG16 side entry, Alum.	F-1204100000 M-1203900000		1205000000	1654070000	1569100000
1712670000		10 + Grnd	HE 10 Pin Kit, w/PG16 top entry, Alum.	F-1204100000 M-1203900000		1205000000	1654220000	1569100000
1712520000	1027640000	16 + Grnd	HE 16 Pin Kit, w/PG21 side entry, Alum.	F-1207700000 M-1207500000	F-1873560000 M-1873570000	1208600000	1656480000	1569110000
1712680000	1061750000	16 + Grnd	HE 16 Pin Kit, w/PG21 top entry, Alum.	F-1207700000 M-1207500000	F-1873560000 M-1873570000	1208600000	1656590000	1569110000
1712530000	1061780000	24 + Grnd	HE 24 Pin Kit, w/PG21 side entry, Alum.	F-1211300000 M-1211100000	F-1873580000 M-1873590000	1212400000	1661230000	1569110000
1712690000	1061800000	24 + Grnd	HE 24 Pin Kit, w/PG21 top entry, Alum.	F-1211300000 M-1211100001	F-1873580000 M-1873590000	1212400000	1661370000	1569110000

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

**HDC KITS - continued**

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



\*\* Bulkhead and Hood Housings are plastic

**HQ Series**

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

**HSB Series**

Inserts	Bulkhead	Description	Hood	Description	Pole count	Connection Type
HSB Series	<b>1498700000</b>	HDC HSB 6 MS	<b>1498900000</b>	HDC HSB 6 FS	5	Screw

**ModuPlug**

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

**ModuPlug Frames**

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

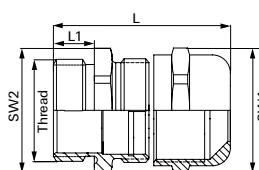
**Modules**

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

## Accessories

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

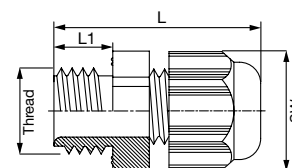
## Cable Glands and Adapters



### Cable Glands, Metal - IP68

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

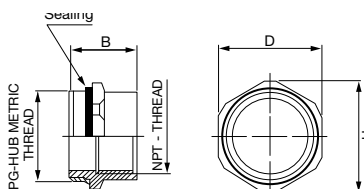
Specifications	
Material:	Brass, nickel-plated
Temperature Range:	-20°C...60°C
Protection:	IP68



### Cable Glands, Plastic - IP68

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

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



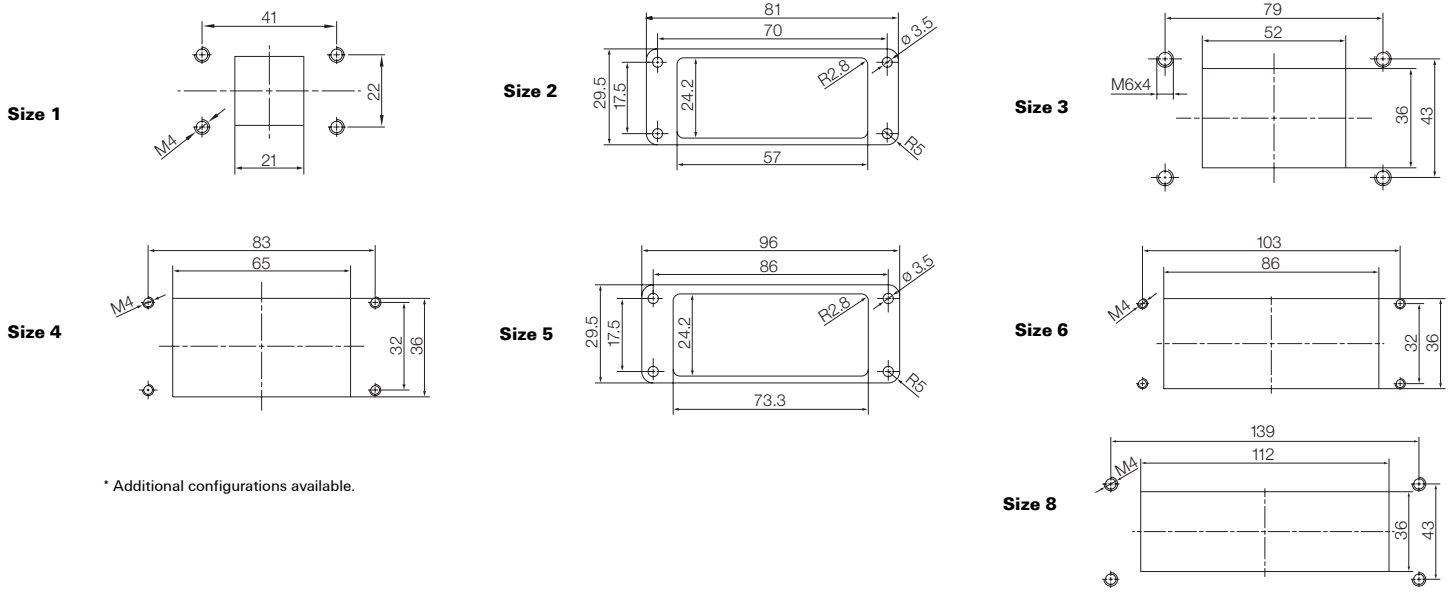
### Cable Adapters - PG to NPT

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

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



**HDC Panel Cut-out Dimensions**



Heavy duty connector application.

# Service Interfaces

Optimum system control and high system productivity ensure that your company remains productive and profitable, in addition to giving you that invaluable competitive edge.

Attaching protected service interfaces to the housing walls of your cabinets is a simple, well-proven solution used to effectively boost your system's availability and productivity. You can then grant your technicians quick and safe access to the control elements and functional electronics in the cabinet at any time, conveniently doing so from outside - through the closed cabinet door.

## Features

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

## FrontCom® Vario

● indicates inclusion in the kit

Order Number	Item Type	Description	Kit Order Number													
			7940111823	7940111824	7940111825	7940111826	7940111827	7940111828	7940111829	7940111830	7940111831	7940111832	7940111833			
1450530000	IE-FC-SFM-KNOB	Single Frame	●						●							
2003170000	IE-FC-DFM-KNOB	Double Frame		●	●	●				●			●			
2669630000	IE-FC-SFM-KNOB-4X	Single Frame NEMA 4x								●						
2669640000	IE-FC-DFM-KNOB-4X	Double Frame NEMA 4X						●					●			●
1450800000	IE-FC-PWS-US	Shielded Single U.S. Power outlet	●						●	●						
2004810000	IE-FC-DSP-CI/3A/2ST/1D9	Shielded GFCI double power outlet		●	●	●		●			●		●	●	●	●
1962840000	IE-BI-RJ45-C	RJ45 coupler	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1962840000	IE-BI-RJ45-C	USB				●		●								
1543690000	IE-FC-PWCB-3A	3 amp fuse		●					●	●	●	●				
7940111821	CIR BRKR THRM 5A	5 amp fuse			●											
1450820000	IE-FC-PWPC	Touch-safe Plate	●						●	●						

## Front Panel Interface FrontCom®



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

## Accessories

	Type	Qty	Order Number
<b>Spare key</b>			
	IE-FC-KEY	1	1465930000
<b>Markers</b>			
silver	SM 27/18 K MC NE SI	80	1713760000
light grey	SM 27/18 K MC NE GR	80	1073340000
white	SM 27/18 K MC NE WS	80	1707270000
for touch-safe protection and insert plates	ESG 7/20 SIRIUS MC NE WS	200	1736181044
<b>Touch-safe protection</b>			
Touch-safe protection	IE-FC-PWPC	1	1450820000



# Industrial and Hazardous Certified Enclosures

Enclosure systems and components



## Always reliable protection

Enclosures fulfill an important safety function and prove themselves every day - even under the toughest conditions. Each industry has its own specific requirements for enclosure technology. At the same time, the enclosures must meet the strict requirements of international approvals. Our Klippon® Protect enclosure system covers all approvals required for use in industrial and hazardous areas. In addition, it can be optimally adapted to your requirements. We complete our offer with individual services in order to provide you with optimal process support.

At Weidmüller, we have the resources and capabilities to design and build both industrial and ATEX certified enclosures. We handle every aspect of the process:

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

Weidmüller is a Certified ATEX Installation House—ATEX licensed to design and build ATEX certified enclosures, providing you with all the required documentation and certification, and reducing your risk in hazardous locations.

# Klippon® TB MH

Robust universal enclosures for harsh environments

## Benefits

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



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

## Klippon® TB Multi-Hinge (KTB MH)



Description	Dimensions H x W x D (in)	Gland Plates	Order Number	Orange Select
KTB MH 221513 S4E0	9x6x5.25	0	1194550000	●
KTB MH 221513 S4E1	9x6x5.25	1	1194560000	●
KTB MH 221513 S4E3	9x6x5.25	3	1194580000	●
KTB MH 262615 S4E0	10x10x6	0	1194600000	●
KTB MH 262615 S4E1	10x10x6	1	1194610000	●
KTB MH 262615 S4E3	10x10x6	3	1194630000	●
KTB MH 262620 S4E0	10x10x8	0	1194650000	●
KTB MH 262620 S4E1	10x10x8	1	1194660000	●
KTB MH 262620 S4E3	10x10x8	3	1194680000	●
KTB MH 303015 S4E0	12x12x6	0	1194700000	●
KTB MH 303015 S4E1	12x12x6	1	1194710000	●
KTB MH 303015 S4E3	12x12x6	3	1194730000	●
KTB MH 303020 S4E0	12x12x8	0	1194750000	●
KTB MH 303020 S4E1	12x12x8	1	1194760000	●
KTB MH 303020 S4E3	12x12x8	3	1194780000	●
KTB MH 352615 S4E0	14x10x6	0	1194800000	●
KTB MH 352615 S4E1	14x10x6	1	1194810000	●
KTB MH 352615 S4E3	14x10x6	3	1194830000	●
KTB MH 352620 S4E0	14x10x8	0	1194850000	●
KTB MH 352620 S4E1	14x10x8	1	1194860000	●
KTB MH 352620 S4E3	14x10x8	3	1194880000	●
KTB MH 403015 S4E0	16x12x6	0	1194900000	●
KTB MH 403015 S4E1	16x12x6	1	1194910000	●
KTB MH 403015 S4E3	16x12x6	3	1194930000	●
KTB MH 403020 S4E0	16x12x8	0	1194950000	●
KTB MH 403020 S4E1	16x12x8	1	1194960000	●
KTB MH 403020 S4E3	16x12x8	3	1194980000	●
KTB MH 453815 S4E0	18x15x6	0	1195000000	●
KTB MH 453815 S4E1	18x15x6	1	1195010000	●
KTB MH 453815 S4E3	18x15x6	3	1195030000	●
KTB MH 453820 S4E0	18x15x8	0	1195050000	●
KTB MH 453820 S4E1	18x15x8	1	1195060000	●

KTB MH 453820 S4E3	18x15x8	3	1195080000	●
KTB MH 484815 S4E0	19x19x6	0	1195100000	●
KTB MH 484815 S4E1	19x19x6	1	1195110000	●
KTB MH 484815 S4E3	19x19x6	3	1195130000	●
KTB MH 484820 S4E0	19x19x8	0	1195150000	●
KTB MH 484820 S4E1	19x19x8	1	1195160000	●
KTB MH 484820 S4E3	19x19x8	3	1195180000	●
KTB MH 553515 S4E0	22x14x6	0	1195200000	●
KTB MH 553515 S4E1	22x14x6	1	1195210000	●
KTB MH 553515 S4E3	22x14x6	3	1195230000	●
KTB MH 553520 S4E0	22x14x8	0	1195250000	●
KTB MH 553520 S4E1	22x14x8	1	1195260000	●
KTB MH 553520 S4E3	22x14x8	3	1195280000	●
KTB MH 624515 S4E0	24x18x6	0	1195300000	●
KTB MH 624515 S4E1	24x18x6	1	1195310000	●
KTB MH 624515 S4E3	24x18x6	3	1195330000	●
KTB MH 624520 S4E0	24x18x8	0	1195350000	●
KTB MH 624520 S4E1	24x18x8	1	1195360000	●
KTB MH 624520 S4E3	24x18x8	3	1195380000	●
KTB MH 765015 S4E0	30x20x6	0	1195400000	●
KTB MH 765015 S4E1	30x20x6	1	1195410000	●
KTB MH 765015 S4E3	30x20x6	3	1195430000	●
KTB MH 765020 S4E0	30x20x8	0	1195450000	●
KTB MH 765020 S4E1	30x20x8	1	1195460000	●
KTB MH 765020 S4E3	30x20x8	3	1195480000	●
KTB MH 916115 S4E0	36x24x6	0	1195500000	●
KTB MH 916115 S4E1	36x24x6	1	1195510000	●
KTB MH 916115 S4E3	36x24x6	3	1195530000	●
KTB MH 916120 S4E0	36x24x8	0	1195550000	●
KTB MH 916120 S4E1	36x24x8	1	1195560000	●
KTB MH 916120 S4E3	36x24x8	3	1195580000	●
KTB MH 987420 S4E0	39x29x8	0	1195600000	●
KTB MH 987420 S4E1	39x29x8	1	1195610000	●
KTB MH 987420 S4E3	39x29x8	3	1195630000	●



# Klippon® TB QL

## Steel enclosures for use within harsh environments

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

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Quick-locking lid, comes with a slot as standard
- Improved temperature performance
- IP66 protection class
- Welded mounting feet
- Earth studs in enclosure cover and bottom section

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



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

### Klippon® TB Quarter Lock (KTB QL)



Description	Dimensions H x W x D (in)	Gland Plates	Order Number	Orange Select
KTB QL 221513 S4E1	9x6x5.25	1	1199860000	●
KTB QL 221513 S4E3	9x6x5.25	3	1199880000	●
KTB QL 262615 S4E1	10x10x6	1	1199910000	
KTB QL 262615 S4E3	10x10x6	3	1199930000	●
KTB QL 262620 S4E1	10x10x8	1	1199960000	●
KTB QL 262620 S4E3	10x10x8	3	1199980000	●
KTB QL 303015 S4E1	12x12x6	1	1200020000	
KTB QL 303015 S4E3	12x12x6	3	1200040000	
KTB QL 303020 S4E1	12x12x8	1	1200070000	●
KTB QL 303020 S4E3	12x12x8	3	1200090000	●
KTB QL 352615 S4E1	14x10x6	1	1200120000	
KTB QL 352615 S4E3	14x10x6	3	1200140000	
KTB QL 352620 S4E1	14x10x8	1	1200170000	●
KTB QL 352620 S4E3	14x10x8	3	1200190000	●
KTB QL 403015 S4E1	16x12x6	1	1200230000	
KTB QL 403015 S4E3	16x12x6	3	1200250000	
KTB QL 403020 S4E1	16x12x8	1	1200280000	●
KTB QL 403020 S4E3	16x12x8	3	1200310000	●
KTB QL 453815 S4E1	18x15x6	1	1200340000	
KTB QL 453815 S4E3	18x15x6	3	1200360000	

KTB QL 453820 S4E1	18x15x8	1	1200390000	
KTB QL 453820 S4E3	18x15x8	3	1200420000	●
KTB QL 484815 S4E1	19x19x6	1	1200450000	
KTB QL 484815 S4E3	19x19x6	3	1200470000	
KTB QL 484820 S4E1	19x19x8	1	1200510000	
KTB QL 484820 S4E3	19x19x8	3	1200530000	●
KTB QL 553515 S4E1	22x14x6	1	1200560000	
KTB QL 553515 S4E3	22x14x6	3	1200580000	
KTB QL 553520 S4E1	22x14x8	1	1200620000	
KTB QL 553520 S4E3	22x14x8	3	1200640000	●
KTB QL 624515 S4E1	24x18x6	1	1200670000	
KTB QL 624515 S4E3	24x18x6	3	1200690000	
KTB QL 624520 S4E1	24x18x8	1	1200730000	
KTB QL 624520 S4E3	24x18x8	3	1200750000	●
KTB QL 765015 S4E1	30x20x6	1	1200780000	
KTB QL 765015 S4E3	30x20x6	3	1200810000	
KTB QL 765020 S4E1	30x20x8	1	1200840000	
KTB QL 765020 S4E3	30x20x8	3	1200860000	●
KTB QL 916115 S4E1	36x24x6	1	1200890000	
KTB QL 916115 S4E3	36x24x6	3	1200920000	
KTB QL 916120 S4E1	36x24x8	1	1200950000	
KTB QL 916120 S4E3	36x24x8	3	1200970000	●
KTB QL 987420 S4E1	39x29x8	1	1201010000	
KTB QL 987420 S4E3	39x29x8	3	1201030000	●

# Klippon® EBi

## Rugged enclosures for demanding industrial environments

### Benefits

- Various locking systems for your individual requirements to guarantee safe locking of your enclosures
- Securely fitted PUR foamed gaskets for industrial applications - designed to suit the contour of the enclosure
- Flexible, easy and comfortable installation of mounting rails and mounting plates due to mounting angle inside the enclosure
- Flexible mounting, direct wallmounting, or mounting lugs as accessories offer a flexible attachment
- M6 earth rivet provides for a secure earth protection functionality



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

### Klippon® EBi



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

# Cabtite

## The new modular cable entry system

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

### Benefits

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



### Rectangular Frame - Cabtite Kits

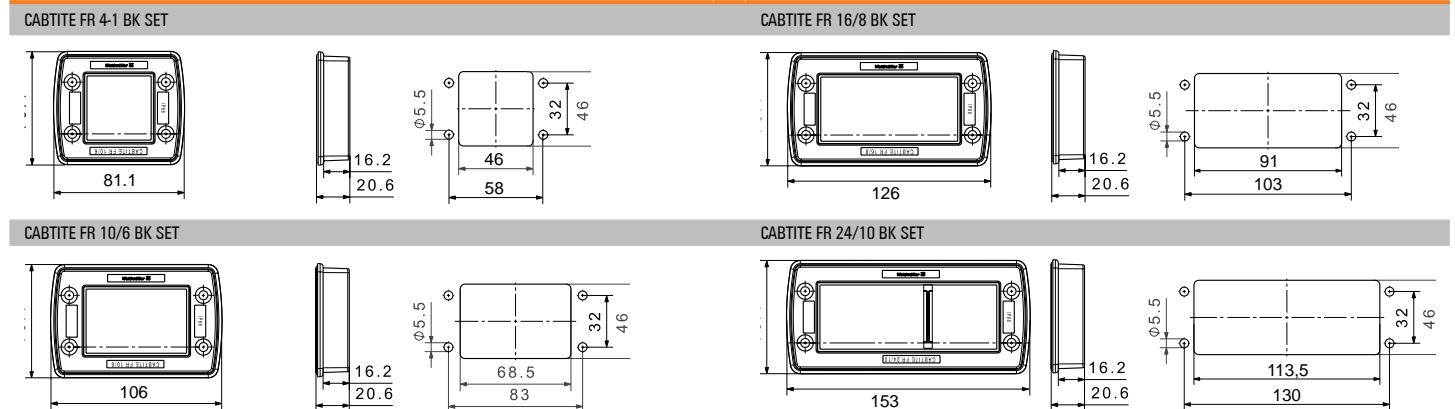
The one-piece frame is quick and easy to assemble and consists of dimensionally stable made from glass fiber reinforced plastic and is available in 4 different sizes. The captive foamed seal guarantees IP66 in accordance with DIN EN 60529 and also Nema 4x and 12 rating, even on painted and rough surfaces.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



### Technical Data

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

### Dimensions










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

Rectangular Frame Sets - Cabtite FR

Ordering data

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















Possible combinations

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

Ordering data

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











Possible combinations

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

Ordering data

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



















Possible combinations

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

Ordering data

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

Possible combinations

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

## Separable cable glands - Cabtite SCG

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



### Technical Data

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

### Ordering data

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

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

## Cable Sealing Elements / Grommets - Cabtite SE

The conical shape of the sealing elements allows for easy installation, seals gaps reliably and ensures strain relief in accordance to DIN EN 62444. Depending on the material, flammability according to UL94 of VO (gray) or HB (black) possible. For installation, they are pressed into place from the inside of the frame inlays. As a result of its slotted design with wave cut, it is especially suitable for pre-assembled cables. The seal elements combined with the frames achieve an IP 66 degree of protection. For safe sealing different sealing elements with different cable diameters and geometries are available.

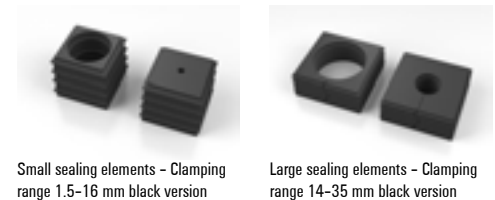
### Technical Data

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



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

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



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

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

### Ordering data

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

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

### Ordering data

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

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



## Cabtite - Accessories

### Locking Frame separable - Cabtite FRL

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



#### Technical Data

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

#### Ordering data

Type	Design information	Qty.	Order Number
CABTITE FRL 4-1 BK	for CABTITE FR 4-1 BK	10	2584260000
CABTITE FRL 10/6 BK	for CABTITE FR 10/6 BK	10	2584240000
CABTITE FRL 16/8 BK	for CABTITE FR 16/8 BK	10	2584220000
CABTITE FRL 24/10 BK	for CABTITE FR 24/10 BK	10	2584210000

### Shielding Rail - Cabtite CR

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



#### Technical Data

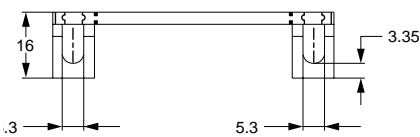
Material	Steel, zinc plated
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#### Ordering data

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

#### Dimensions width x height

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



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



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



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



# Klippon® Connect Terminal Blocks

Connectivity



## Klippon® Connect: the pioneering connectivity solutions

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

# Klippon® Connect Terminal Blocks

## Frequently Asked Questions

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

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

**What connection functions are needed?**

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

**Why provide fusing with terminal blocks?**

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

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

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

**What typical connection configurations are used?**

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



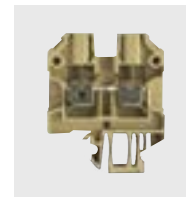
### Spring connection with PUSH IN technology

Increase efficiency in installation without compromising on safety



### Spring connection with Tension Clamp technology

Universal contact system for all common conductor connection types



### Screw connection with Clamping Yoke technology

Patented clamping yoke technology ensures the ultimate in contact safety



### Screw connection with Stud technology

Established, robust connection alternative for particularly harsh environments

## W Series Screw Clamp

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



### Feed Through Terminal Blocks

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

### Feed Through Terminal Blocks - Multi-Level

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1031400000	WDU 1.5/ZZ	Branch - 4 clamps	5mm	300/10/26-12	300/10/26-12	1050000000/1050100000
1024700000	WDU 2.5/ZR	Branch - 3 clamps	5mm	300/20/30-12	300/20/26-12	1050000000/1050100000
1041100000	WDK 2.5	Dual-Level (length - 65mm)	5mm	300/20/30-12	300/25/26-12	1059100000/1058700000
1041600000	WDK 2.5N	Dual-Level (length - 60mm)	5mm	600/20/30-12	300/20/26-12	1084000000/1058800000
1041610000	WDK 2.5NV*	Branch Dual-level	5mm	600/20/30-12	300/20/26-12	1084000000/1058800000
1041100000	WDK 2.5 ZQV, V	Dual-Level	5.1 mm	300/20/22-12	300/25/26-12	1059100000/1058800000
2732600000	WDK 2.5V ZQV OR*	Dual-Level	5.1 mm	300/20/22-12	300/25/26-12	1059100000/1058800000
1041900000	WDK 4N	Dual-Level	6mm	600/35/26-10	300/30/26-10	1084000000/1058800000
1041910000	WDK 4NV*	Branch Dual-level	6mm	600/35/26-10	300/30/26-10	1084000000/1058800000
1041650000	WDK 2.5N DU-PE	Dual-Level w/ground	5mm	600/20/30-12	300/20/26-12	1084000000/1058800000
1041950000	WDK 4N DU-PE	Dual-Level w/ground	6mm	600/35/26-10	300/30/26-10	1084000000/1058800000
1186740000	WDK 10	Dual-Level	10mm	600/64/18-6	600/64/18-6	1186720000/-
1186770000	WDK 10V	Dual-Level	10mm	600/64/18-6	600/64/18-6	1186720000/-

\* V denotes: Upper and lower tier linked

### Disconnect Terminal Blocks

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1855610000	WTR 2.5	Single-Level	5mm	600/20/30-12	300/10/26-12	1050000000/1050100000
1855620000	WTR 2.5, Stb.2.3	Single-Level, w/Test Socket	5mm	600/20/30-12	300/10/26-12	1050000000/1050100000
1039900000	WTR 2.5/ZZ	Branch - 4 clamps	6mm	300/10/26-12	300/10/26-12	1074600000/-
7910180000	WTR 4	Single-Level	6mm	600/22/22-10	300/10/22-10	1050000000/1050100000
7910210000	WTR 4, Stb.2.3	Single-Level, w/Test Socket	5mm	600/22/22-10	300/10/22-10	1050000000/1050100000
1905090000	WTR 4/ZZ	Branch, 4 clamp	5mm	600/30/30-10	600/25/30-10	1074600000/-
1247290000	WDK 2.5/TR-DU	Dual-Level	5mm	300/20/24-12	300/20/30-12	1839850000/-
1247420000	WDK 2.5/TR-DU-PE	Dual-Level, w/ground	5mm	300/20/24-12	300/20/30-12	1839850000/-
9528070000	WDTR 2.5	Double Dual-Level	6mm	300/10/22-12	300/17/26-12	Not Required

### Fuse Terminal Blocks

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

\* Must order only one bus bar(QL) and screws(S) based on corresponding # of poles - Example: Jumping 2 WSI 6 terminals requires, 1- QL and 2 screws

\*\* Leakage Current Ratings: LLC-.5ma/Standard 2.5ma  
† For Canada LLC option, change last digit to 1 - Example: 1011300001

### Ground Terminal Blocks

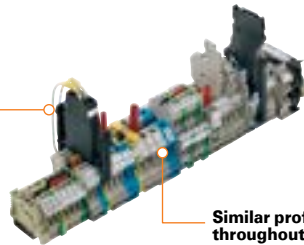
Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1016200000	WPE 2.5N	Single-Level	5mm	-/-/30-12	-/-/26-12	1060000000
1010000000	WPE 2.5	Single-Level	5mm	-/-/30-12	-/-/26-12	1050000000
1041620000	WDK 2.5N/PE	Dual-Level	5mm	-/-/30-12	-/-/26-12	1084000000
1010100000	WPE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





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

Screw-down Jumpers



Similar profiles throughout series

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1693800000	1693880000	0383560000	9008320000	1609801044 / 1609860000
1693800000	1693880000	1061200000	9008320000	1609801044 / 1609860000
1758250000	1758260000	1061200000	9008330000	1609820000 / 1609900000
1052360000	1052260000	1061200000	9008340000	1856740000 / 1906000000
1052560000	1052460000	1061200000	9008350000	1609840000 / 1609920000
1053260000	1053360000	1061200000	9008350000	1609840000 / 1609920000
1053060000	1053160000	1061200000	9009010000	1609840000 / 1609920000

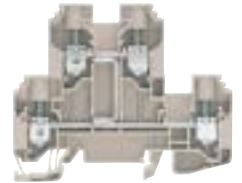
Pluggable    Screw-down    Uninsulated



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

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1693800000	1693880000	1061200000	9008320000	1609801044 / 1609860000
1693800000	1693880000	1061200000	9008320000	1609801044 / 1609860000
1683800000	1693880000	1061100000	9008320000	1609801044 / 1640740000
1693800000	1693880000	1061200000	9008320000	1609801044 / 1640740000
1693800000	1693880000	1061200000	9008320000	1609801044 / 1640740000
1527540000	1527690000	1061200000	9008320000	1609801044 / 1640740000
1527540000	1527690000	1061200000	9008320000	1609801044 / 1640740000
1758250000	1758260000	1061200000	9008320000	1609820000 / 1951880000
1758250000	1758260000	1061200000	9008320000	1609820000 / 1951880000
1693800000	1693880000	1061200000	9008320000	1609801044 / 1640740000
1758250000	1758260000	1061200000	9008320000	1609820000 / 1951880000
1052560000	1052460000	1061200000	9008350000	1609820000 / 1951880000
1052560000	1052460000	1061200000	9008350000	1609820000 / 1951880000

Pluggable    Screw-down    Uninsulated



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

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1693800000	1693880000	1061200000	9008320000	1609801044 / 1609860000
1693800000	1693880000	1061200000	9008320000	1609801044 / 1609860000
1608860000	1608940000	1061200000	9008320000	1609801044 / 1609860000
1758250000	1758260000	1061200000	9008320000	1609820000 / 1609900000
1758250000	1758260000	1061200000	9008320000	1609820000 / 1609900000
1758250000	1758260000	1061200000	9008320000	1609820000 / 1609900000
1053660000	1054460000	1061200000	9008320000	1609801044 / 1640740000
1053660000	1054460000	1061200000	9008320000	1609801044 / 1640740000
-	-	1061200000	9008320000	1609820000 / 1951880000

Pluggable    Screw-down    Uninsulated



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

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000
0194300000-QL/9008340000-S	0338300000-QL/9008340000-S	1061200000	9003840000	1609840000 / 1609920000

Pluggable    Screw-down    Uninsulated



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



**WFS 4**  
Fuse terminal, Screw connection

Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
9008320000	1609801044 / 1609860000
9008320000	1609801044 / 1609860000
9008320000	1609801044 / 1640740000
9008320000	1609820000 / 1609900000
9008330000	1609820000 / 1951880000
9008340000	1856740000 / 1906000000
9008350000	1609840000 / 1609920000
9008350000	1609840000 / 1609920000
9009010000	1609840000 / 1609920000



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



## W Series Screw Clamp

### Color Feed Through Terminal Blocks

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



Color Feed Through

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition	Jumpers: 2-pole	Jumpers: 10-pole	Marking Tags-Blank (MultiCard/MultiMark))
102000000	WDU 2.5 BG	Beige	5mm	600/25/26-12	600/25/26-12	1050000000/1050100000	1693800000	1693880000	1609801044/1609860000
1020080000	WDU 2.5 BL	Blue	5mm	600/25/26-12	600/25/26-12	1050080000/1050100000	1693800000	1693880000	1609801044/1609860000
1020060000	WDU 2.5 OR	Orange	5mm	600/25/26-12	600/25/26-12	1050060000/1050100000	1693800000	1693880000	1609801044/1609860000
1020040000	WDU 2.5 RD	Red	5mm	600/25/26-12	600/25/26-12	1050040000/1050100000	1693800000	1693880000	1609801044/1609860000
1020020000	WDU 2.5 YL	Yellow	5mm	600/25/26-12	600/25/26-12	1050020000/1050100000	1693800000	1693880000	1609801044/1609860000
1020090000	WDU 2.5 GN	Green	5mm	600/25/26-12	600/25/26-12	1072200000/1050100000	1693800000	1693880000	1609801044/1609860000
1037700000	WDU 2.5 VI	Violet	5mm	600/25/26-12	600/25/26-12	1072210000/1050100000	1693800000	1693880000	1609801044/1609860000
1037710000	WDU 2.5 BR	Brown	5mm	600/25/26-12	600/25/26-12	1050070000/1050100000	1693800000	1693880000	1609801044/1609860000
1036800000	WDU 2.5 WH	White	5mm	600/25/26-12	600/25/26-12	1050090000/1050100000	1693800000	1693880000	1609801044/1609860000
1020010000	WDU 2.5 BK	Black	5mm	600/25/26-12	600/25/26-12	1050010000/1050100000	1693800000	1693880000	1609801044/1609860000

Single-level

Pluggable

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition	Jumpers: 2-pole	Jumpers: 10-pole	Marking Tags-Blank (MultiCard/MultiMark))
1020100000	WDU 4 BG	Beige	6mm	600/35/22-10	600/35/26-10	1050000000/1050100000	1758250000	1758260000	1609820000/1609900000
1020180000	WDU 4 BL	Blue	6mm	600/35/22-10	600/35/26-10	1050080000/1050100000	1758250000	1758260000	1609820000/1609900000
1036760000	WDU 4 OR	Orange	6mm	600/35/22-10	600/35/26-10	1050060000/1050100000	1758250000	1758260000	1609820000/1609900000
1020140000	WDU 4 RD	Red	6mm	600/35/22-10	600/35/26-10	1050040000/1050100000	1758250000	1758260000	1609820000/1609900000
1020120000	WDU 4 YL	Yellow	6mm	600/35/22-10	600/35/26-10	1050020000/1050100000	1758250000	1758260000	1609820000/1609900000
1020160000	WDU 4 GN	Green	6mm	600/35/22-10	600/35/26-10	1072200000/1050100000	1758250000	1758260000	1609820000/1609900000
1037820000	WDU 4 VI	Violet	6mm	600/35/22-10	600/35/26-10	1072210000/1050100000	1758250000	1758260000	1609820000/1609900000
1037810000	WDU 4 BR	Brown	6mm	600/35/22-10	600/35/26-10	1050070000/1050100000	1758250000	1758260000	1609820000/1609900000
1036700000	WDU 4 WH	White	6mm	600/35/22-10	600/35/26-10	1050090000/1050100000	1758250000	1758260000	1609820000/1609900000
1020110000	WDU 4 BK	Black	6mm	600/35/22-10	600/35/26-10	1050010000/1050100000	1758250000	1758260000	1609820000/1609900000

Single-level

Pluggable

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

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

#### Feed Through

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

Pluggable

#### Ground Single-Level Feed Through

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

### Thermocouple Terminal Blocks

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



Thermocouple

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

Note: ID number stamped into current bar

### Ring Lug Feed Through and Disconnect Terminals

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

Order Number	Type	Description	V	A	AWG	End Plate
1887210000	WTL 6/4FF*	CT Circuit, Disconnect	600	30	20...10	1887240000
1887220000	WTD 6/4FF*	CT Circuit, Feed through	600	30	20...10	1887240000
C905234600	ST 5N/EN	Single Level-Stud, Feed through	600	35	22...8	C905235600
C904908601	ST 6/EN	Single Level-Stud, Feed through	600	40	26...10	C904910600
C905265600	ST 25/EN	Single Level-Stud, Feed through	600	100	20...3	C905266600
C9000676	ST 5/EN	Single Level-Screw, Feed through	600	35	20...10	C9000686
C9001456	ST 5P/EN	Single Level-Screw, Feed through	600	35	20...10	C9000686

\*2-pole jumper accessory: 1739680000



WTL/WTD 6/4 ASSY



WTL 6/4 FF

STSP/EN

### Disconnect Terminals

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

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



WTR 2.5/ZZ and WTR 4/ZR

### Accessories

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

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

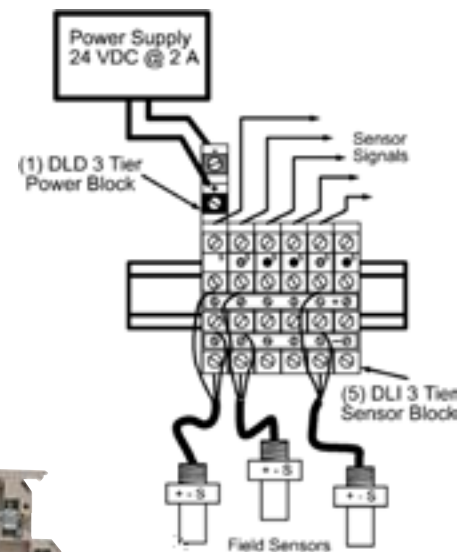


SIHA, BEST and TNST

### Multi-Tier Sensor Actuator Terminals

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

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

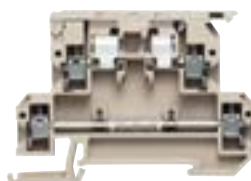


Example: Three Sensor Hook-up Diagram

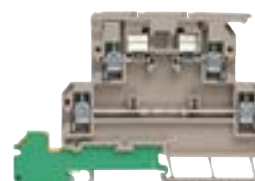


DLI 2.5

DLD 2.5



KDKS 1/35



KDKS 1 PE

## Fuse Terminals

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

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

\*TS 35 DIN-rail Mountable Only

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

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

## WSI 25 Midget Fuse Terminals

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

Order Number	Order Number 1000 V	Type*	Description	V	A	AWG
1966020000	1137790000	WSI 25/1	1 pole, 10x38mm fuse	600	30	18...4
1966090000		WSI 25/2	2 pole, 10x38mm fuse	600	30	18...4
1966080000		WSI 25/3	3 pole, 10x38mm fuse	600	30	18...4
1966060000	1137780000	WSI 25/1 LED	1 pole, 10x38mm fuse, w/indication	600	30	18...4
7940029427		WSI 25/2 LED	2 pole, 10x38mm fuse, w/indication	600	30	18...4
7940029428		WSI 25/3 LED	3 pole, 10x38mm fuse, w/indication	600	30	18...4
1966050000		WSI 25/1 CC	1 pole, Class CC fuse	600	30	18...4
1966040000		WSI 25/2 CC	2 pole, Class CC fuse	600	30	18...4
1966030000		WSI 25/3 CC	3 pole, Class CC fuse	600	30	18...4
1966070000		WSI 25/1 CC/LED	1 pole, Class CC fuse w/indication	600	30	18...4
7940029425		WSI 25/2 CC/LED	2 pole, Class CC fuse w/indication	600	30	18...4
7940029426		WSI 25/3 CC/LED	3 pole, Class CC fuse w/indication	600	30	18...4

\*CC denotes CC fuseholder

## Pluggable Circuit Breaker Terminals

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

### Circuit Breakers

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

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

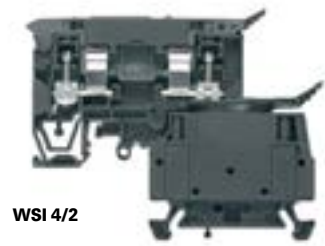


## Terminal Block Bases

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



Order Number	Type	Description
6760007723	10plus-ST-201	Black Terminal Block Screw Clamp terminal with spacer 3mm
6760007724	10plus-ST-202	Black Terminal Block LED 24VDC Screw Clamp with spacer 3mm
6760007725	10plus-ST-203	Black Terminal Block LED 12VDC Screw Clamp with spacer 3mm
6760007726	10plus-XT-201	Black Terminal Block Tension Clamp terminal with spacer 3mm
6760007727	10plus-XT-202	Black Terminal Block LED 24VDC Tension Clamp terminal with spacer 3mm
6760007728	10plus-XT-203	Black Terminal Block LED 12VDC Tension Clamp terminal with spacer 3mm
6760007729	X22223202	12 pole insulated jumper



WSI 4/2



WFS 4



WTR 2.5/SI



## Accessories

Order Number	Description
1044440000	SET 2 POLE WSI 25 ganging kit
1044450000	SET 3 POLE WSI 25 ganging kit
1044460000	Single Pole Busbar for WSI 25/1 (1 meter)

## WPD 104 & 105 Color Coded Power Distribution Terminal Series

- Colors correspond to power coded circuit wiring, offered in Red, Black, Clear and Blue
- UL & CSA approved – 600V/15A/30-10AWG
- Compact design can be mounted on DIN rail or direct mounted
- Multiple pole bussing is possible with insulated bus bars (2 and 3 pole)



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



Order Number Clear	1562210000	1562220000	1562100000	1562090000
Order Number *Red	2725340000	2725350000	2725280000	2725270000
Order Number *Blue	2518570000	2521730000	2519480000	2519490000
Order Number *Black	2725440000	2725450000	2725380000	2725370000
Type Type	WPD 106 - Single Pole	WPD 107 - Single Pole	WPD 108 - Single Pole	WPD 109 - Single Pole
V/A / AWG (UL/CSA)	600/150/16 - 4	600/200/16 - 4	600/250/4 - 250	600/310/3/0 - 350
Dimensions (Width x Length x Height)	1.62" x 2" x 2.94"	2.07" x 2.13" x 2.88"	2.07" x 2.64" x 3.70"	2.08" x 2.64" x 3.70"
<b>Line Input Wire Range</b>				
Number of Connections (By Position)	1 - Mid/Mid	1 - Mid/Left 1 Mid/Mid 1 - Mid/Right	1 - Mid/Mid	1 - Mid/Mid
Mid/Left		22 - 0 AWG		
Mid/Mid	18 - 000	18 - 250MCM	2 - 250MCM	3/0 - 350MCM
Mid/Right		22 - 0 AWG		
<b>Load Output Wire Range</b>				
Number of Connections	3 - Top 2 - Bottom	4 - Top 4 - Bottom	3 - Top 4 - Mid 2 - Bottom	3 - Top 4 - Mid 2 - Bottom
Top	16 - 6 AWG	14 - 4 AWG	14 - 4 AWG	14 - 4 AWG
Middle			14 - 4 AWG	14 - 4 AWG
Bottom	14 - 4 AWG	14 - 4 AWG	12 - 2 AWG	12 - 2 AWG

## Power Distribution Blocks WPDP 70, 185 Terminal Series

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

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

\*AL denotes Aluminum





## Z Series Tension Clamp

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



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

### Feed Through Terminal Blocks

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

### Feed Through Terminal Blocks - Multi-Level

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

\* V denotes: Upper and lower tier linked

### Disconnect Terminal Blocks

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

### Fuse Terminal Blocks

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

### Ground Terminal Blocks

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



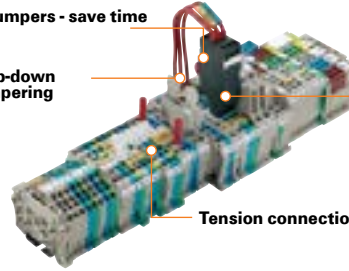


PUSH IN Jumpers - save time

Step-down jumpering

Quick top entry termination - improved visibility during installation

Tension connection system = 100% vibration proof



Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1776120000	1776200000	9540000000	9037160000	1755270000 / 1778270000
1608860000	1608940000	9540000000	9008330000	1609801044 / 1635000000
1608950000	1609030000	9540000000	9008330000	1609820000 / 1828450000
1627850000	-	9540000000	9008350000	1856740000 / 1906000000
1739680000	-	9540000000	9008350000	1856740000 / 1906000000
1739690000	-	9540000000	9008350000	1856740000 / 1906000000
1739700000	-	9540000000	9008350000	1856740000 / 1906000000

Pluggable

Uninsulated



**ZDU 2.5**  
Single-level feed through

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1608860000	1608940000	9540000000	9008330000	1609801044 / 1640740000
1608860000	1608940000	9540000000	9008330000	1609801044 / 1640740000
1608860000	1608940000	9540000000	9008330000	1609801044 / 1640740000
-	-	9540000000	9008330000	1609801044 / 1640740000
1776120000	1776200000	9540000000	9037160000	1755270000 / 1778270000
1776120000	1776200000	9540000000	9037160000	1755270000 / 1778270000
1608860000	1608940000	9540000000	9008330000	1609801044 / 1640740000
1608860000	1608940000	9540000000	9008330000	1609801044 / 1640740000
1608950000	1609030000	9540000000	9008330000	1609820000 / 1951880000
1608950000	1609030000	9540000000	9008330000	1609820000 / 1951880000
1627850000	-	9540000000	9008350000	1856740000 / 1906000000
1796800000	-	8630740000	9008350000	1856740000 / 1906000000
-	-	8630740000	9008350000	1856740000 / 1906000000



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

Pluggable

Uninsulated

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1608860000	1608890000	9540000000	9008330000	1609801044 / 1635000000
1608860000	1608890000	9540000000	9008330000	1609801044 / 1635000000
1608860000	1608890000	9540000000	9008330000	1609801044 / 1635000000
1693800000	1693880000	9540000000	9008330000	1609801044 / 1635000000

Pluggable

Uninsulated



**ZTR 2.5**  
Single-level disconnect

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
1627850000	1627870000	9540000000	9008330000	1856740000 / 1906000000
1627850000	1627870000	9540000000	9008330000	1856740000 / 1906000000
1627850000	1627870000	9540000000	9008330000	1856740000 / 1906000000
1627850000	1627870000	9540000000	9008330000	1856740000 / 1906000000
1627850000	1627870000	9540000000	9008330000	1856740000 / 1906000000
1633200000	1633220000	9540000000	9008330000	1856740000 / 1906000000
1633200000	1633220000	9540000000	9008330000	1856740000 / 1906000000
1633200000	1633220000	9540000000	9008330000	1856740000 / 1906000000
1633200000	1633220000	9540000000	9008330000	1856740000 / 1906000000
1633200000	1633220000	9540000000	9008330000	1856740000 / 1906000000

Pluggable

Uninsulated



**ZSI 2.5**  
Single-level fuse

End Brackets	Screwdriver	Marking Tags - Blank (MultiCard/MultiMark)
9540000000	9037160000	1755270000 / 1778270000
9540000000	9008330000	1609801044 / 1635000000
9540000000	9008330000	1609801044 / 1635000000
9540000000	9008330000	1609801044 / 1635000000
9540000000	9008330000	1609820000 / 1828450000
9540000000	9008330000	1609820000 / 1828450000
9540000000	9008330000	1609820000 / 1828450000
9540000000	9008330000	1609820000 / 1828450000
9540000000	9008350000	1856740000 / 1906000000
9540000000	9008350000	1856740000 / 1906000000
8630740000	9008350000	1856740000 / 1906000000
8630740000	9008350000	1856740000 / 1906000000
8630740000	9008350000	1856740000 / 1906000000
8630740000	9008350000	1856740000 / 1906000000

Uninsulated



**ZPE 2.5**  
Single-level ground



## Z Series Tension Clamp

### Color Feed Through Terminal Blocks

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

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

 Single-level

 Pluggable

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition	Jumpers: 2-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1632050000	ZDU 4 BG	Beige	6mm	600/33/26-10	600/35/26-10	1632090000/-	1608950000	1609030000	1609820000 / 1828450000
1632060000	ZDU 4 BL	Blue	6mm	600/33/26-10	600/35/26-10	1632100000/-	1608950000	1609030000	1609820000 / 1828450000
1636830000	ZDU 4 OR	Orange	6mm	600/33/26-10	600/35/26-10	1632110000/-	1608950000	1609030000	1609820000 / 1828450000
1683580000	ZDU 4 RD	Red	6mm	600/33/26-10	600/35/26-10	1632090000(Beige)/-	1608950000	1609030000	1609820000 / 1828450000
1683590000	ZDU 4 YL	Yellow	6mm	600/33/26-10	600/35/26-10	1632090000(Beige)/-	1608950000	1609030000	1609820000 / 1828450000
1683600000	ZDU 4 GN	Green	6mm	600/33/26-10	600/35/26-10	1683920000/-	1608950000	1609030000	1609820000 / 1828450000
1683610000	ZDU 4 VI	Violet	6mm	600/33/26-10	600/35/26-10	1632090000(Beige)/-	1608950000	1609030000	1609820000 / 1828450000
1683620000	ZDU 4 BR	Brown	6mm	600/33/26-10	600/35/26-10	1632090000(Beige)/-	1608950000	1609030000	1609820000 / 1828450000
1683640000	ZDU 4 WH	White	6mm	600/33/26-10	600/35/26-10	1632090000(Beige)/-	1608950000	1609030000	1609820000 / 1828450000
1683650000	ZDU 4 BK	Black	6mm	600/33/26-10	600/35/26-10	1632090000(Beige)/-	1608950000	1609030000	1609820000 / 1828450000

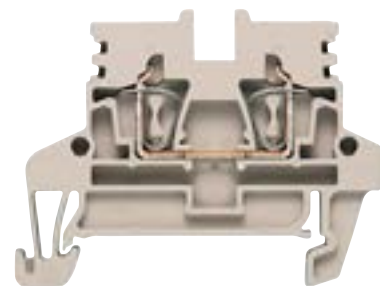
 Single-level

 Pluggable

### Feed Through Terminal Blocks – Z Compact

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

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

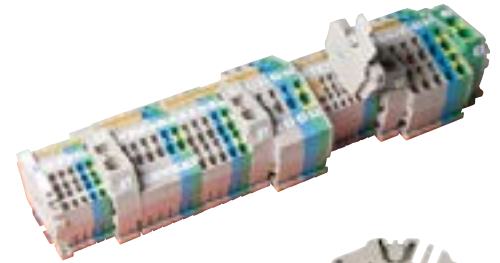


ZDU 2.5N

### Feed Through Terminal Blocks – Z-Roof

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

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



ZDU 2.5-2

### Sensor Terminal Blocks

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

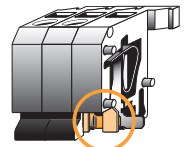
Order Number	Type	Description	End Plate
1651980000	ZIA 1.5/3L-1S	3-wire sensor base	1649540000
1652010000	ZIA 1.5/4L-1S	4-wire sensor base	1649550000
1652000000	ZIA 1.5/3L-PE	3-wire sensor w/ ground base	1649540000
1652030000	ZIA 1.5/4L-PE	4-wire sensor w/ ground	1649550000
1650370000	ZVL 1.5	Pluggable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



ZVL 1.5



ZIA 1.5/4L



Internal Bussing Link

### Direct Mount Terminal Blocks

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

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

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



ZDUB 2.5 Assembly



ZDUB 2.5-2/2AN/DM

### Micro Series – TS 15 DIN-Rail Mountable

- 60 points per foot of rail
- Pluggable ZQV jumpers

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



ZDUA 2.5-2/15 Assembly



ZDUA 2.5-2

**A-Series PUSH IN Clamp**

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

**Single-Level Feed Through Terminal Blocks**

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

**Branch/Dual-Level Feed Through Terminal Blocks**

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

\* V denotes: Upper and lower tier linked

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

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

**Fuse Single-Level Pluggable Feed Through Terminal Blocks**

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
2429860000	AFS 4 2C	Single-Level Terminal	6mm	150V/10A/26-10AWG	150V/10A/26-10AWG	2486640000
2548140000	AFS 4 2C, 10-36V LD	Branch Terminal	5mm	150V/10A/26-10AWG	150V/10A/26-10AWG	2486640000
2434350000	AFS 4 2C, 30-70V LD	Branch Terminal	5mm	150V/10A/26-10AWG	150V/10A/26-10AWG	2486640000
2434390000	AFS 4 2C, 60-150V LD	Dual-Level Terminal	5mm	150V/10A/26-10AWG	150V/10A/26-10AWG	2486640000

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

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





### Weidmüller Configurator (WMC)

Design software to select/build assemblies to your specifications.

[www.weidmuller.com/wmc](http://www.weidmuller.com/wmc)



Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1985410000	1985480000	1985490000	1985580000	1755270000/ 2007 140000
1527540000	1527570000	1527590000	1527690000	1609801044/ 2007 150000
1527930000	1527940000	1527970000	1528090000	1609820000/ 2007 160000
1985740000	1985760000	1985780000	-	1856740000/ 2619890000
1985410000	-	-	1527690000	1609840000/ 1208970000
2497250000	-	-	-	1208970000
2497290000	-	-	-	1208970000
1985410000	-	-	1985580000	1208970000
2634950000	-	-	-	1046350000/ 2619910000
2663400000	-	-	-	1046350000 / 2619910000

Pluggable



A2C 2.5

Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1985410000	1985480000	1985490000	1985580000	1755270000 / 2007 140000
1527540000	1527570000	1527590000	1527690000	1609801044 / 2007 150000
1527930000	1527940000	1527970000	1528090000	1609820000 / 2007 160000
1985740000	1985760000	1985780000	-	1856740000 / 2619890000
2497250000	-	-	-	1208970000
2497290000	-	-	-	1208970000
1985410000	1985480000	1985490000	1985580000	1755270000 / 2007 140000
1527540000	1527570000	1527590000	1527690000	1609801044 / 2007 150000
1527930000	1527940000	1527970000	1528090000	1609820000 / 2007 160000
1985410000	1985480000	1985490000	1985580000	1755270000 / 2007 140000
1527540000	1527570000	1527590000	1527690000	1609801044 / 2007 150000
1527540000	1527570000	1527590000	1527690000	1609801044 / 2007 150000
1527540000	1527570000	1527590000	1527690000	1609801044 / 2007 150000

Pluggable



A4C 4

Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1527540000	1527570000	1527590000	1527690000	1854490000 / 2007 150000
1527540000	1527570000	1527590000	1527690000	1854490000 / 2007 150001
1527540000	1527570000	1527590000	1527690000	1854490000 / 2007 150002
1527930000	1527940000	1527970000	1528090000	2003780000 / 2007 160000

Pluggable



ADT 4 2C

Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1527930000	1527940000	1527970000	1528090000	1011320000 / 2007 160000
1527930000	1527940000	1527970000	1528090000	1011320000 / 2007 160001
1527930000	1527940000	1527970000	1528090000	1011320000 / 2007 160002
1527930000	1527940000	1527970000	1528090000	1011320000 / 2007 160003

Pluggable



AFS 4 2C

Jumpers are not applicable to this type of terminal	Marking Tags - Blank (MultiCard/MultiMark)
	2003750000 / 2007 140000
	2003750000 / 2007 140001
	1854490000/ 2007 110000
	1854490000/ 2007 110001
	1854490000/ 2007 110002
	1011320000 / 2003780000
	1011320000 / 2003780001
	1011320000 / 2003780002
	1046350000 / 2448930000
	1046350000 / 2448930001
	1208970000
	1208970000
	1208970000
	1208970000
	2003750000 / 2007 140000
	1854490000/ 2007 110000
	1854490000/ 2007 110000



A2C 4 PE



## A-Series Application Specific Solutions

### Control Voltage Distribution Terminal Blocks

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

#### Features

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



#### AAP 11

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1989780000	AAP11 6 LO RD	Potential Distribution Terminal	6 mm <sup>2</sup>	300/36/AWG 22...8	300/36/AWG 22...8	1988320000
1988130000	AAP11 6 LO BL	Potential Distribution Terminal	6 mm <sup>2</sup>	300/36/AWG 22...8	300/36/AWG 22...8	1988320000
2503650000	AAP11 6 LO OR	Potential Distribution Terminal	6 mm <sup>2</sup>	300/36/AWG 22...8	300/36/AWG 22...8	1988320000
1988160000	AAP11 1.5 LI RD	Potential Distribution Terminal	1.5 mm <sup>2</sup>	300/13/AWG 26...14	150/13/AWG 26...14	1988320000
1988170000	AAP11 1.5 LI BL	Potential Distribution Terminal	1.5 mm <sup>2</sup>	300/13/AWG 26...14	150/13/AWG 26...14	1988320000
2503910000	AAP11 1.5 LI OR	Potential Distribution Terminal	1.5 mm <sup>2</sup>	300/13/AWG 26...14	150/13/AWG 26...14	1988320000

#### AAP 12

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1988190000	AAP12 10 LO RD	Potential Distribution Terminal	10 mm <sup>2</sup>	600/51/AWG 20...6	600/51/AWG 20...6	1988300000
1988180000	AAP12 10 LO BL	Potential Distribution Terminal	10 mm <sup>2</sup>	600/51/AWG 20...6	600/51/AWG 20...6	1988300000
2503900000	AAP12 10 LO OR	Potential Distribution Terminal	10 mm <sup>2</sup>	600/51/AWG 20...6	600/51/AWG 20...6	1988300000
1988290000	AAP12 2.5 LI RD	Potential Distribution Terminal	2.5 mm <sup>2</sup>	600/20/AWG 28...12	600/20/AWG 28...12	1988300000
1988100000	AAP12 2.5 LI BL	Potential Distribution Terminal	2.5 mm <sup>2</sup>	600/20/AWG 28...12	600/20/AWG 28...12	1988300000
2503880000	AAP12 2.5 LI OR	Potential Distribution Terminal	2.5 mm <sup>2</sup>	600/20/AWG 28...12	600/20/AWG 28...12	1988300000

#### AAP 13

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1988260000	AAP13 6 LO-LO	Potential Distribution Terminal	6 mm <sup>2</sup>	150/36/AWG 22...8	150/36/AWG 22...8	1990140000
1988280000	AAP13 1.5 LI-LI	Potential Distribution Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1990140000

#### AAP 14

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1988250000	AAP14 10 LO-LO	Potential Distribution Terminal	10 mm <sup>2</sup>	150/51/AWG 20...6	150/51/AWG 20...6	1988340000
1988230000	AAP14 2.5 LI-LI	Potential Distribution Terminal	2.5 mm <sup>2</sup>	150/20/AWG 28...12	150/20/AWG 28...12	1988340000

#### AAP 21

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
2428910000	AAP21 10 LO RD	Potential Distribution Terminal	10 mm <sup>2</sup>	600 (C) /51/AWG 20...6	600 (C) /51/AWG 20...6	2429020000
2428940000	AAP21 10 LO BL	Potential Distribution Terminal	10 mm <sup>2</sup>	600 (C) /51/AWG 20...6	600 (C) /51/AWG 20...6	2429020000
2428930000	AAP21 4 LI RD	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (C) /20/AWG 26...10	300 (C) /20/AWG 26...10	2429020000
2428960000	AAP21 4 LI BL	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (C) /20/AWG 26...10	300 (C) /20/AWG 26...10	2429020000
2428950000	AAP21 4 FS	Potential Distribution Terminal	4 mm <sup>2</sup>	150 (C) /10/AWG 26...10	150 (C) /10/AWG 26...10	2429020000
2458990000	AAP21 4 FS 10-36V	Potential Distribution Terminal	4 mm <sup>2</sup>	150 (C) /10/AWG 26...10	150 (C) /10/AWG 26...10	2429020000
2460200000	AAP21 4 FS 30-70V	Potential Distribution Terminal	4 mm <sup>2</sup>	150 (C) /10/AWG 26...10	150 (C) /10/AWG 26...10	2429020000
2460190000	AAP21 4 FS 60-150V	Potential Distribution Terminal	4 mm <sup>2</sup>	150 (C) /10/AWG 26...10	150 (C) /10/AWG 26...10	2429020000
2460180000	AAP21 4 FS 100-250V	Potential Distribution Terminal	4 mm <sup>2</sup>	150 (C) /10/AWG 26...10	150 (C) /10/AWG 26...10	2429020000
2428980000	AAP21 4 DT	Potential Distribution Terminal	4 mm <sup>2</sup>	150 (C) /20/AWG 26...10	150 (C) /20/AWG 26...10	2429020000

#### AAP 22

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
2428990000	AAP22 10 LO-LO	Potential Distribution Terminal	10 mm <sup>2</sup>	150/51/AWG 20...6	150/51/AWG 20...6	2429040000
2429010000	AAP22 4 LI-FS	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (D) /10/AWG 26...10	300 (D) /10/AWG 26...10	2429040000
2459010000	AAP22 4 LI-FS 10-36V	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (D) /10/AWG 26...10	300 (D) /10/AWG 26...10	2429040000
2460140000	AAP22 4 LI-FS 30-70V	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (D) /10/AWG 26...10	300 (D) /10/AWG 26...10	2429040000
2460130000	AAP22 4 LI-FS 60-150V	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (D) /10/AWG 26...10	300 (D) /10/AWG 26...10	2429040000
2460120000	AAP22 4 LI-FS 100-250V	Potential Distribution Terminal	4 mm <sup>2</sup>	300 (D) /10/AWG 26...10	300 (D) /10/AWG 26...10	2429040000



### Weidmüller Configurator (WMC)

Design software to select/build assemblies to your specifications.

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



AAP11 6 LO RD

Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
2108470000	-	-	2108910000	1208970000
2108470000	-	-	2108910000	1208970000
2108470000	-	-	2108910000	1208970000
2108470000	-	-	2108910000	2007110000/ 2007150000
2108470000	-	-	2108910000	2007110000/ 2007150000
2108470000	-	-	2108910000	2007110000/ 2007150000



AAP12 10 LO RD

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



AAP13 6 LO-LO

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



AAP14 10 LO-LO

Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
2460450000	-	-	2460740000	1208970000
2460450000	-	-	2460740000	1208970000
2460450000	-	-	2460740000	2007120000/ 2007160000
2460450000	-	-	2460740000	2007120000/ 2007160000
2460450000	-	-	2460740000	2007120000/ 2007160000
2460450000	-	-	2460740000	2007120000/ 2007160000
2460450000	-	-	2460740000	2007120000/ 2007160000
2460450000	-	-	2460740000	2007120000/ 2007160000
2460450000	-	-	2460740000	2007120000/ 2007160000
1528040000	-	-	1528230000	2007120000/ 2007160000



AAP21 10 LO RD

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



AAP22 10 LO-LO

## A-Series Application Specific Solutions

### Signal Wiring — Sensor-Actuator Terminal Blocks



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



#### Features

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

#### AIO 21

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1992260000	AIO21 1.5 SI	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993580000
2579610000	AIO21 1.5 SI OR	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993580000
1992240000	AIO21 1.5 SO	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993580000
2579570000	AIO21 1.5 SO OR	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993580000
1992250000	AIO21 1.5 SO-PE	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993580000
2579580000	AIO21 1.5 SO-PE OR	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993580000

#### AIO 22

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1992230000	AIO22 1.5 SI-PE	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993590000
2579640000	AIO22 1.5 SI-PE OR	Sensor-Actuator Terminal	1.5 mm <sup>2</sup>	150/13/AWG 26...14	150/13/AWG 26...14	1993590000

#### AIO 23

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



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Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1985650000	-	-	1985800000	2007100000/ 2007140000
1985650000	-	-	1985800000	2007100000/ 2007140000
1985530000	-	-	1985680000	2007100000/ 2007140000
1985530000	-	-	1985680000	2007100000/ 2007140000
1985530000	-	-	1985680000	2007100000/ 2007140000
1985530000	-	-	1985680000	2007100000/ 2007140000



AI021 1.5 SI

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



AI022 1.5 SI-PE

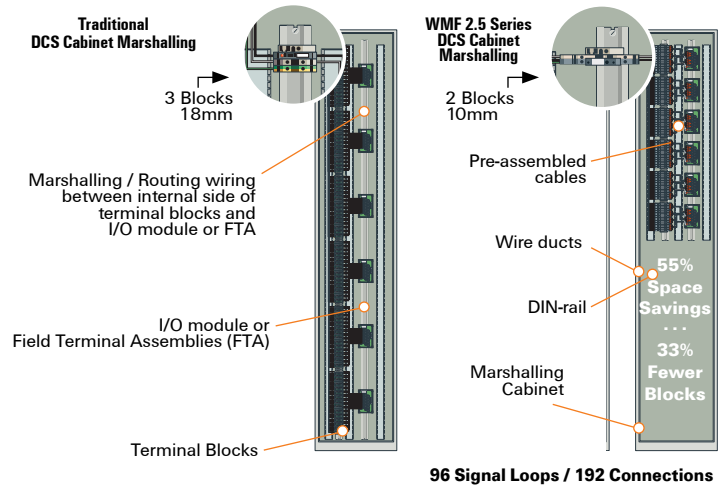
Jumpers: 2-pole	Jumpers: 3-pole	Jumpers: 4-pole	Jumpers: 10-pole	Marking Tags - Blank (MultiCard/MultiMark)
1985650000	-	-	1985800000	2007100000/ 2007140000
1985650000	-	-	1985800000	2007100000/ 2007140000



AI023 1.5 2SI

## WMF Series For DCS Marshalling Solutions

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



### Feed Through Terminal Blocks

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

### Disconnect Terminal Blocks

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

\*StB denotes: test socket screw-clamp

### Fuse Terminal Blocks

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
1162920000	WMF 2.5 FU SW	5x20mm fuse	5mm	600/17/26-12	600/17/26-12	1142990000/-
1162930000	WMF 2.5 FU - 24V SW	5x20mm fuse, 10-36VAC/DC	5mm	300/10/26-12	36/10/26-12	1142990000/-
1162940000	WMF 2.5 FU - 48V SW	5x20mm fuse, 30-70VAC/DC	5mm	300/10/26-12	70/10/26-12	1142990000/-
1162950000	WMF 2.5 FU - 110V SW	5x20mm fuse, 60-150VAC/DC	5mm	300/10/26-12	150/10/26-12	1142990000/-
1162960000	WMF 2.5 FU - 250V SW	5x20mm fuse, 100-250VAC/DC	5mm	300/10/26-12	250/10/26-12	1142990000/-
1163040000	WMF 2.5 FU PE SW	5x20mm fuse, w/grnd	5mm	300/10/26-12	600/17/26-12	1142990000/-
1163050000	WMF 2.5 FU PE 10-36V SW	5x20mm fuse, w/grnd, LED indication	5mm	300/10/26-12	36/10/26-12	1142990000/-
1163060000	WMF 2.5 FU PE 30-70V SW	5x20mm fuse, w/grnd, LED indication	5mm	300/10/26-12	70/10/26-12	1142990000/-
1163070000	WMF 2.5 FU PE 60-150V SW	5x20mm fuse, w/grnd, LED indication	5mm	300/10/26-12	150/10/26-12	1142990000/-
1163080000	WMF 2.5 FU PE 100-250V SW	5x20mm fuse, w/grnd, LED indication	5mm	300/10/26-12	250/10/26-12	1142990000/-
1162980000	WMF 2.5 FU BLZ SW	5x20mm fuse, pluggable BLZ ch.	5mm	300/10/26-12**	150/10/26-12**	1142990000/-
1162990000	WMF 2.5 FU BLZ 10-36V SW	5x20mm fuse, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	36/10/26-12**	1142990000/-
1163000000	WMF 2.5 FU BLZ 30-70V SW	5x20mm fuse, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	70/10/26-12**	1142990000/-
1163010000	WMF 2.5 FU BLZ 60-150V SW	5x20mm fuse, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	150/10/26-12**	1142990000/-
1163020000	WMF 2.5 FU BLZ 100-250V SW	5x20mm fuse, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	250/10/26-12**	1142990000/-
1162820000	WMF 2.5 FU PE BLZ SW	5x20mm fuse, grnd, pluggable BLZ ch.	5mm	300/10/26-12**	150/10/26-12**	1142990000/-
1162830000	WMF 2.5 FU PE BLZ 10-36V SW	5x20mm fuse, grnd, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	36/10/26-12**	1142990000/-
1162840000	WMF 2.5 FU PE BLZ 30-70V SW	5x20mm fuse, grnd, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	70/10/26-12**	1142990000/-
1162850000	WMF 2.5 FU PE BLZ 60-150V SW	5x20mm fuse, grnd, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	150/10/26-12**	1142990000/-
1162860000	WMF 2.5 FU PE BLZ 100-250V SW	5x20mm fuse, grnd, pluggable BLZ ch. LED indication	5mm	300/10/26-12**	250/10/26-12**	1142990000/-
7921560000	SIHA 3/G20	Fuse Plug - 5x20mm, no indication	300/6.3/-	600/10/-		Not Required
7921570000	SIHA 3/G20 LED 24V	Fuse Plug - 5x20mm, LED 10-36V	300/6.3/-	36/6.3/-		Not Required
7921590000	SIHA 3/G20 LED 60V	Fuse Plug - 5x20mm, LED 60-150V	300/6.3/-	150/6.3/-		Not Required
7921600000	SIHA 3/G20 LED 120V	Fuse Plug - 5x20mm, LED 140-250V	300/6.3/-	250/6.3/-		Not Required

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

\*\*9.3A for BLZ plug connection

#### BLZP 5.08/90

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

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

#### BLZP 5.08/90F

With screw flange

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





## SAK Series Screw Clamp

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



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

### Feed Through Terminal Blocks

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

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

### Feed Through Terminal Blocks - Multi-Level

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

### Disconnect Terminal Blocks

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

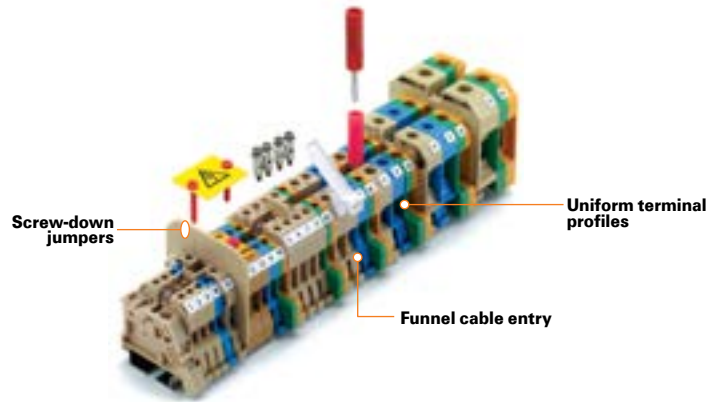
### Fuse Terminal Blocks

Order Number	Type	Description	Width	V/A/AWG - UL	V/A/AWG - CSA	End Plate/Partition
0474560000	ASK 1EN	Single level, 5x20mm fuse, combi-foot	8mm	300/10/26-12	300/10/26-12	0380360000
0222760001	ASK 1EN/LD 24V H-	5x20mm fuse, 10-60VAC/DC, hinge -	8mm	300/10/26-12	300/10/26-12	0380360000
0225560001	ASK 1EN/LD 120V, H-	5x20mm fuse, 100-250VAC/DC, hinge -	8mm	300/10/26-12	300/10/26-12	0380360000
9503350000	KDKS 1/EN	Dual-level, 5x20mm fuse	8mm	300/10/26-12	300/10/26-12	9503330000
9802720001	KDKS 1EN/LLC 10-36V AC/DC	5 x 20mm fuse 10-36V AC/DC	8mm	300/10/26-12	300/10/26-12	9503330000
9802760001	KDKS 1EN/LLC 100-250V AC/DC	6 x 20mm fuse 100-250V AC/DC	8mm	300/10/26-12	300/10/26-12	9503330000
9528110000	KDKS 1/EN PE	Dual-level, 5x20mm fuse, with ground	8mm	300/10/26-12	300/10/26-12	9503330000
0501620000	SAKS 1/35, KRG*	5x20mm fuse	13mm	600/10/22-10	600/10/26-10	0191320000
0501520000	SAKS 1/35, KRG*	5x25mm fuse	13mm	600/10/22-10	600/10/26-10	0191320000

\* KRG denotes melamine molding material

### Ground Terminal Blocks

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



Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard)
033700000	036870000	038356000	900833000	160982000
033670000	036880000	038356000	900833000	160984000
045670000	045700000	038356000	900835000	185674000
045710000	045740000	038356000	900835000	185674000
045750000	045780000	106120000	900835000	185674000
QL2-012360000 VH-026700000 BS-026710000	QL10-033860000 VH-026700000 BS-026710000	106120000	900901000	185674000

Screw-down, QB-Combination

Uninsulated



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

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard)
033640000	036860000	038356000	900833000	160982000
033640000	036860000	038356000	900833000	160982000
033640000	036860000	038356000	900833000	160982000

Screw-down

Uninsulated



**DK 40/35**  
Dual-level feed through  
Compact design - 2-wire  
hook-up in one terminal

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard)
048270000	048290000	038356000	900833000	160984000
048270000	048290000	038356000	900833000	160982000
048270000	048290000	038356000	900833000	160982000

Screw-down

Uninsulated



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

Jumpers: 2-pole	Jumpers: 10-pole	End Brackets	Screwdriver	Marking Tags - Blank (MultiCard)
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
QB 2 - 046110000	QB 4 - 046130000	038356000	900833000	185674000
Q2 - 019140000	Q10 - 033880000	106120000	900835000	185674000
Q2 - 019140000	Q10 - 033880000	106120000	900835000	185674000

Screw-down

Uninsulated



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



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

## DIN-Rail Accessories

### DIN-Rail

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

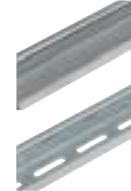
Type	Description	Order Number
TS 15/LL	Slotted (Slot:4.2x12mm), Steel, 2M	0117500000
TS 15x5	Solid, Steel, 2M	0514200000
TS 35/LL	Slotted (Slot:5.2x25mm), Steel, 2M	0514500000
TS 35 x 7.5	Solid, Steel, 2M	0383400000
TS 35 X 15	Solid, Steel, 2M	0236400000
TS 35 X 15/LL	Slotted (Slot:5.2x25mm), Steel, 2M	0236500000
TS 32 x 5	Solid, Steel, 2M	0122800000
TS 32/LL	Slotted (Slot:5.2x25mm), Steel, 2M	0514400000
TS35 2-1/4	Aluminum Hi Rail, 1M	999716
TS35 2-1/4	Aluminum Hi Rail, 2M	999789
Rail Cap (7.5)	Insulation Cap for TS 35 x 7.5	1283470000
Rail Cap (15)	Insulation Cap for TS 35 x 15	1283480000



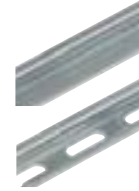
Aluminum Hi Rail (Grommets not included)



TS 35 x 7.5  
Solid and Slotted



TS 35 x 15  
Solid and Slotted



TS 15 x 5  
Solid and Slotted



TS 32 x 5  
Solid and Slotted



Rail Cap for 7.5 or 15 mm rail

### End Brackets

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

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



TS 35 - EW 35



TS 35 - WEW 35/2



TS 32 - EWK 1



TS 35 - ZEW 35/2

### Rail Markers – SchT 5 and 5S

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

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

### DIN-Rail Cutters

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

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

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



19.5mm wide



9.5mm wide



TSLD 5



TSD 35

# OMNIMATE Device Connectors

Device Connectivity: Printed Circuit Board (PCB)



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

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

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

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

## Clamping Technology



### PUSH IN Spring Connection

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



With release button

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

With no release button

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



### Clamping Yoke Screw Connection

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



### TOP Screw Connection

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



## Many ways lead to the right product

### Our online services as process-optimization tools

There is more than one route to the final layout. Our support concept will assist you in all of your search and selection options. Weidmüller has fundamentally re-designed the selection and ordering process for device connectivity in a way that better suits your application. In the future, there'll no longer be just the one path to the right product; there'll just be the right path: yours.



#### Webcode selection

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



#### The AppGuide

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



#### The product configurators

Your layout is ready and you know what components you want to use. Use the product configurator to quickly select device connectivity components and to adapt them according to your application's component specifications and requirements.

## Easily search high-quality components and unique design-in services for your device design

#01028  
 #01190  
 #01052 #01116  
 #01072  
 #01160  
 #01184  
 #01056



### Webcode: the hashtag for easy product searching

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

#### Where can I find the webcode?

Next to the product, either in this brochure or online.

#### Where do I enter the webcode?

Just enter the code into the search screen on our website. \*)

#### Where will I be directed to once I've entered the webcode?

You'll be taken to the product specifications and technical details, as well as additional information and downloads.

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

## OMNIMATE® Signal

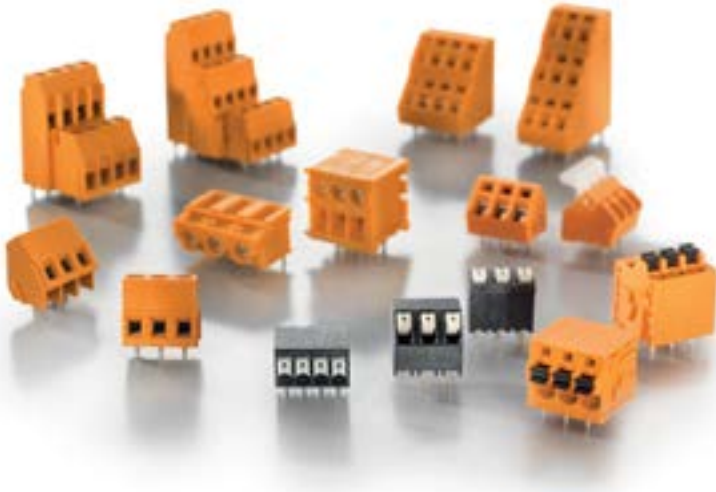
### Transmit numerous signals in the smallest possible space

A reliable device connection is an absolute must for your customized applications. With OMNIMATE® Signal, we can offer you the right PCB-connection to meet your exact requirements.

You can choose from a product range that includes extremely compact PCB terminals and connectors, which, thanks to intelligent locking concepts and high-performance connection systems, provides your design-in process with a wide range of application-specific solutions and does not set any limits on your creativity.

We have also not forgotten about your production processes when formulating our product range, as our THR and SMD components ensure the highest productivity levels during the reflow soldering process.





#### OMNIMATE® Signal PCB terminals



- Application-oriented connection systems ranging from clamping yoke screw connections to PUSH IN spring connections in all relevant cross-section ranges up to 6 mm<sup>2</sup>
- Can be used universally in all standard pitches from 3.50 mm to 7.62 mm
- A wide range of reflow-compatible products for automated SMT processes
- Compact, multi-layer designs up to 72-pole



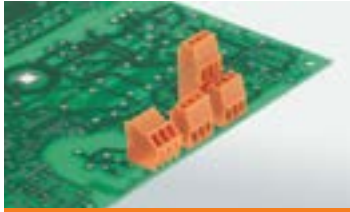
#### OMNIMATE® Signal PCB plug-in connector



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

## OMNIMATE® Signal – PCB terminals

## Clamping yoke screw connection



Webcode #01010

**LM 3.50 / LM1N / LM2N**

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

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



Webcode #01012

**LM 5.00/5.08**

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

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



Webcode #01014

**LS 5.08**

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

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



Webcode #01016

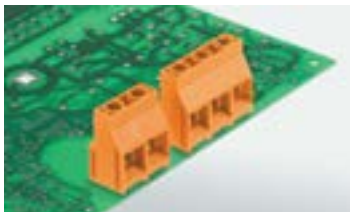
**LL 5.00/5.08**

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

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



## Clamping yoke screw connection



Webcode #01018

**LL 9.52**

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

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

## TOP screw connection



Webcode #01024

**TOP**

PCB terminal with conductor insertion and contact point actuation from the same direction.

- TOP screw connection
- Pitch: 5.08 mm / 6.35 mm / 7.62 mm
- Number of poles: 2-24
- IEC: 630 V / 24 A / 0.2-2.5 mm<sup>2</sup>
- UL: 300 V / 10 A / AWG 26-14

## Leaf-spring screw connection



Webcode #01020

**PS 3.5**

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

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



Webcode #01022

**PM 5.00/5.08**

PCB terminal with conductor inlet direction of 90°.

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

## PUSH IN spring connection



Webcode #01028

**LSF-SMT 3.5 / 3.81**

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

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



Webcode #01030

**LSF-SMT 5.00 / 5.08**

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

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



Webcode #01032

**LSF-SMT 7.50 / 7.62**

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

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



Webcode #01034

**LSF-SMD 3.5**

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

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



## OMNIMATE® Signal – PCB terminals

## PUSH IN spring connection



Webcode #01036

**LSF-SMD 5.00**

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

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

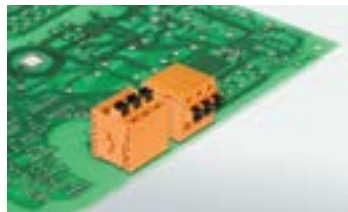


Webcode #01038

**LSF-SMD 7.50**

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

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



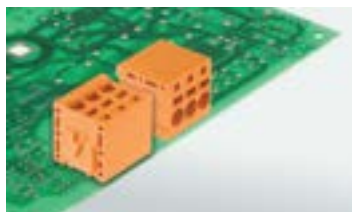
Webcode #01040

**LMF 5.00/5.08**

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

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

## PUSH IN spring connection

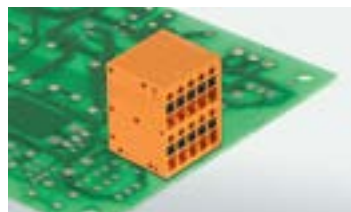


Webcode #01042

**LMFS 5.00/5.08**

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

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



Webcode #01026

**LS2HF 3.50**

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

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 4-24
- IEC: 400 V / 10 A / 0.14-1.5 mm<sup>2</sup>
- UL: 150 V / 12.5 A / AWG 26-16

## Tension clamp connection

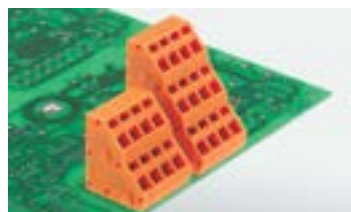


Webcode #11448

**LMZF**

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

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



Webcode #11447

**LM2NZF & LM3RZF**

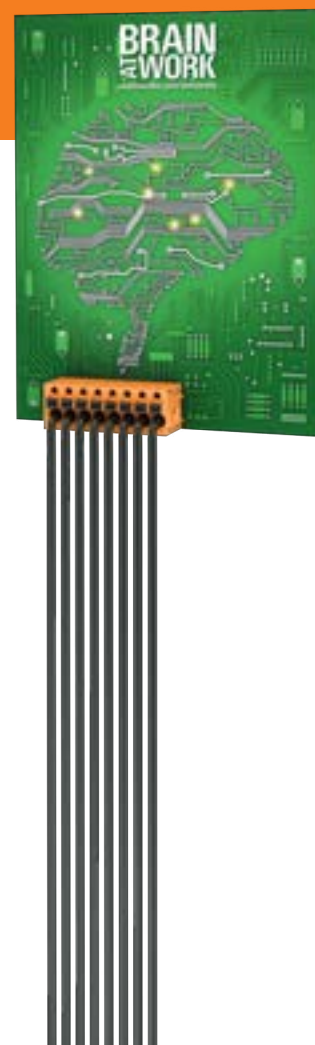
Multi-level PCB terminal with conductor outlet direction of 135°.

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

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## OMNIMATE® Signal – PCB connectors

## Pitch 2.50 mm



Webcode #11323

**BLF 2.50**

Female plug for conductor connection with PUSH IN spring connection.

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



Webcode #11324

**SL 2.50**

Male header for wave soldering methods for 2.50 mm pitch.

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

## Pitch 3.50 mm double-row design



Webcode #01060

**S2C 3.50**

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

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



Webcode #01058

**B2CF 3.50**

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

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 4-46
- IEC: 320 V / 13.4 A / 0.14-1.5 mm<sup>2</sup>
- UL: 300 V / 9.5 A / AWG 26-16



## Pitch 3.50 mm

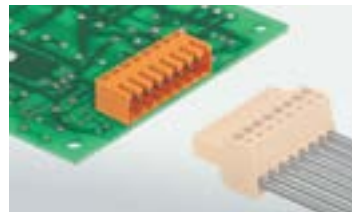


Webcode #01068

**SL-SMT 3.50**

High-temperature-resistant male header for reflow and wave soldering methods.

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



Webcode #01072

**SL 3.50**

Male header for wave soldering methods.

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

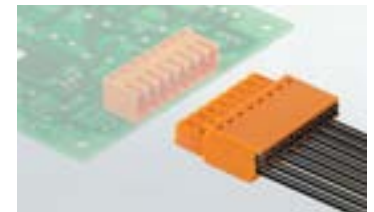


Webcode #01066

**BL 3.50**

Female plug for conductor connection with clamping yoke screw connection.

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



Webcode #11410

**BLF 3.5**

Female plug with PUSH IN spring connection

- PUSH IN spring connection
- 3.50 mm pitch
- Number of poles: 2-24
- IEC: 320 V / 14.5 A
- UL: 300 V / 9.5 A



## Pitch 3.50 mm



Webcode #01064

**BL-I/O 3.5**

Extremely compact female plug in one or three-row design and with an integrated LED display.

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 10-30
- IEC: 200 V / 2.2 A / 0.2-1 mm<sup>2</sup>
- UL: 50 V / 5 A / AWG 24-16



Webcode #11445

**BL-I/O CJC**

Compact female plug with integrated cold junction compensation.

- PUSH IN spring connection
- Pitch: 3.50 mm
- Number of poles: 10
- IEC: 50V / 2.2 A / 0.2 - 1.5 mm<sup>2</sup>
- UL: 50 V / 5 A / AWG 24 - 16

## Pitch 3.81 mm



Webcode #01076

**SC-SMT 3.81**

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

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



Webcode #01080

**SC 3.81**

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

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

## OMNIMATE® Signal – PCB connectors

## Pitch 3.81 mm



Webcode #11316

**SCZ 3.81**

Compact male plug for conductor connection with clamping yoke screw connection.

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



Webcode #01074

**BCZ 3.81**

Compact female plug for conductor connection with clamping yoke screw connection.

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



Webcode #01078

**BCF 3.81**

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

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



Webcode #01082

**BCL-SMT 3.81**

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

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

## Pitch 5.00 mm



Webcode #11444

**SL-SMT 5.00HC**

High-temperature-resistant, bent pin header, optimized for automatic assembly and reflow and wave soldering.

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

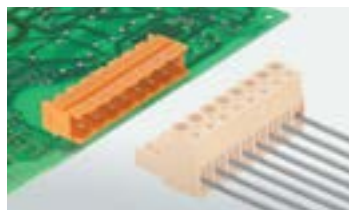


Webcode #11443

**SL-SMaT 5.0xHC**

High-temperature-resistant, Modular pin header.

- High-current male header
- Pitch: 5.0x mm
- Number of poles: 2 & 3
- IEC: 400 V / 27.5 A
- UL: 300 V / 15 A

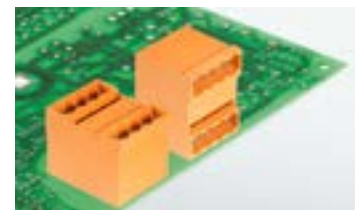


Webcode #01095

**SL 5.00**

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

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



Webcode #11461

**SLD 5.00**

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

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

## Pitch 5.00 mm



Webcode #01165

**BLZP 5.00HC**

High-current-female-plug for outlet direction of 90°, 180°, 225° or 270°.

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



Webcode #11442

**BLF 5.00HC**

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

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



## OMNIMATE® Signal – PCB connectors

## Pitch 5.08 mm



Webcode #01090

**SL-SMT 5.08HC**

Highly temperature-resistant angled male header optimized for automatic assembly and for reflow and wave soldering methods.

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



Webcode #11441

**SLDV-THR 5.08**

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

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

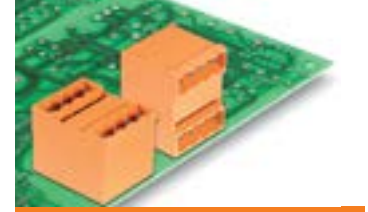


Webcode #01094

**SL 5.08HC**

Male headers in glass-fibre-reinforced plastic, optimized for wave soldering methods.

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



Webcode #11440

**SLD 5.08**

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

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

## Pitch 5.08 mm



Webcode #01098

**SLF 5.08**

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

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



Webcode #01087

**SLS 5.08**

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

- Clamping yoke screw connection
- Pitch: 5.08 mm
- Number of poles: 2-24
- IEC: 400 V / 21.5 A / 0.2-2.5 mm<sup>2</sup>
- UL: 300 V / 14 A / AWG 26-AWG 12



Webcode #01102

**SLT 5.08**

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

- TOP screw connection system
- Pitch: 5.08 mm
- Number of poles: 2-16
- IEC: 400 V / 16 A / 0.2-2.5 mm<sup>2</sup>
- UL: 300 V / 15 A / AWG 26-14



Webcode #01084

**BLZP 5.08HC**

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

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

## Pitch 5.08 mm



Webcode #01092

**BLT 5.08HC**

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

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



Webcode #01088

**BLF 5.08HC**

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

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



Webcode #01096

**BLC 5.08**

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

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



Webcode #01100

**BLL 5.08**

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

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

## OMNIMATE® Signal – PCB connectors

## Rectangular connector



Webcode #11360

**RSV 1.6 C**

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

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



Webcode #01106

**RSV 1.6 L**

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

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

## Accessories



Webcode #11439

**Accessories**

For signal PCB terminals



Webcode #11438

**Accessories**

For signal PCB connectors

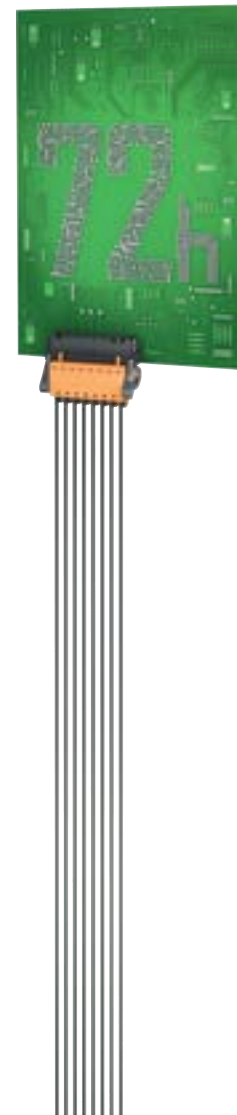
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## OMNIMATE® Power

### Powerful connections with maximum security

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As specialists with a great deal of practical experience, we know the maximum power and security requirements that you place on your electronic devices. Our high-performance PCB terminals, PCB connectors and panel feedthrough terminal blocks therefore comply with applicable device standards such as the IEC 61800 standard for speed-controlled drive technology.

Our Power products also fully achieve 600 volts in accordance with UL standards. PCB terminal blocks with PUSH IN wire connection and application-specific plug-in connectors for motor connection with shield support complete the range.





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#### OMNIMATE® Power PCB terminals

**PUSH IN**  
600 V

- High-power to 150 A / 1000 V (IEC) or 127 A / 600 V (UL)
- Application-oriented scalability with connection cross-sections from 16 mm<sup>2</sup> to 50 mm<sup>2</sup>
- Simple UL device approval up to 600 V
- PUSH IN wire connection up to 16 mm<sup>2</sup>
- Maintenance-free steel clamping yoke for vibration-resistant screw connections



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

**PUSH IN**  
600 V

- Application-oriented scalability: from the compact 4 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> connector for 76 A (IEC) or 60 A (UL)
- Unlimited usage up to 1000 V (IEC) or 600 V (UL)
- A variety of application-optimized mounting options



#### OMNIMATE® Power panel feedthrough terminal blocks

**PUSH IN**

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

## OMNIMATE® Power PCB terminals

### Clamping yoke screw connection



Webcode #01044

#### LL 6.35

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

- Clamping yoke screw connection
- Pitch: 6.35 mm
- Number of poles: 2-12
- IEC: 1,000 V / 32 A / 0.18-6 mm<sup>2</sup>
- UL: 600 V / 30 A / AWG 26-10



Webcode #01048

#### LU 10.16

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

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2-10
- IEC: 1,000 V / 76 A / 0.5-16 mm<sup>2</sup>
- UL: 300 V / 65 A / AWG 26-6



Webcode #01050

#### LUP 10.16 V with test point

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

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2-9
- IEC: 1,000 V / 76 A / 0.5-16 mm<sup>2</sup>
- UL: 600 V / 51 A / AWG 26-6



Webcode #01052

#### LUP 12.70 with test point

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

- Clamping yoke screw connection
- Pitch: 12.70 mm
- Number of poles: 2-9
- IEC: 1,000 V / 76 A / 0.5-16 mm<sup>2</sup>
- UL: 600 V / 58 A / AWG 26-6

### Clamping yoke screw connection



Webcode #01054

#### LX 15.00 with test point

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

- Clamping yoke screw connection
- Pitch: 15.00 mm
- Number of poles: 1-9
- IEC: 1,000 V / 101 A / 1.5-25 mm<sup>2</sup>
- UL: 600 V / 85 A / AWG 16-4



Webcode #01056

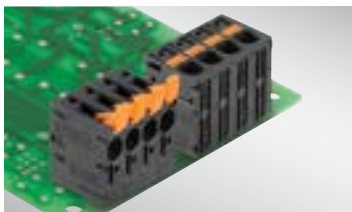
#### LXXX 15.00 with test point

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

- Clamping yoke screw connection
- Pitch: 15.00 mm
- Number of poles: 1-9
- IEC: 1,000 V / 150 A / 0.5-50 mm<sup>2</sup>
- UL: 600 V / 127 A / AWG 20-1



### PUSH IN spring connection

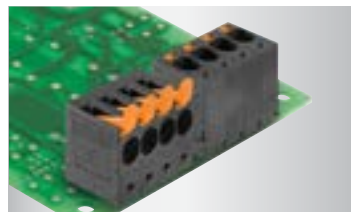


Webcode #11408

#### LLF / LIFS 7.5

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

- PUSH IN spring connection
- Fast wiring without tool (LLF 7.50)
- Pitch: 7.5 mm
- Number of poles: 1-12
- IEC: 1,000 V / 41 A / 0.5-6 mm<sup>2</sup>
- UL: 600 V / 35 A / AWG 24-8

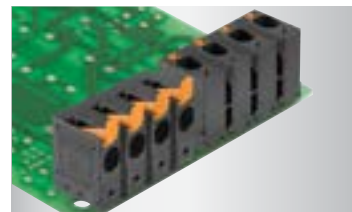


Webcode #01046

#### LUF / LIFS 10

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

- PUSH IN spring connection
- Fast wiring without tool (LUF10)
- Pitch: 10.00 mm
- Number of poles: 1-12
- IEC: 1,000 V / 76 A / 0.5-16 mm<sup>2</sup>
- UL: 600 V / 61 A / AWG 18-6



Webcode #11409

#### LUF / LIFS 15

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

- PUSH IN spring connection
- Fast wiring without tool (LUF 15)
- Pitch: 15.00 mm
- Number of poles: 2-8
- IEC: 1,000 V / 76 A / 0.5-16 mm<sup>2</sup>
- UL: 1,000 V / 57 A / AWG 18-6

## OMNIMATE® Power – PCB connectors

## OMNIMATE® Power Hybrid



Webcode # 11437

**SV-SMT 7.62 Hybrid**

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

- Male header
- Pitch: 7.62 mm
- Number of poles: 2-5
- IEC: 1,000 V / 41 A
- UL: 300 V / 35 A



Webcode # 01112

**SV 7.62 Hybrid**

Hybrid male header with energy and signal contacts.

- Male header
- Pitch: 7.62 mm
- Pole count: 2/4-5/8
- IEC: 1,000 V / 41 A
- UL: 300 V / 35 A



Webcode # 11465

**BVF 7.62HP Hybrid**

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

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 2/4-5/8
- IEC: 1,000 V / 38 A / 0.5-10 mm<sup>2</sup>
- UL: 600 V / 35 A / AWG 24-8



Webcode # 11466

**BVFL 7.62 Hybrid**

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

- Wire-Ready-PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 2 / 4-5 / 8
- IEC: 1,000 V / 38 A / 0.5-6 mm
- UL: 600 V / 35 A / AWG 24-8

## OMNIMATE® Power Hybrid



Webcode # 11467

**BVF 7.62 hybrid with pluggable shield connection**

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

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4-4
- IEC: 1,000 V / 38 A / 0.5-10 mm
- UL: 600 V / 35 A / AWG 24-8



Webcode # 11468

**BVLF 7.62 hybrid with pluggable shield connection**

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

- Wire-Ready-PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4-4
- IEC: 1,000 V / 38 A / 0.5-6 mm
- UL: 600 V / 35 A / AWG 24-8



Webcode # 11481

**BVF 7.62 hybrid with pluggable shield connection**

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

- PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4-4
- IEC: 1,000 V / 38 A / 0.5-10 mm
- UL: 600 V / 35 A / AWG 24-8



Webcode # 11480

**BVFL 7.62 hybrid with pluggable shield connection**

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

- Wire-Ready-PUSH IN spring connection
- Pitch: 7.62 mm
- Pole count: 4-4
- IEC: 1,000 V / 38 A / 0.5-6 mm
- UL: 600 V / 35 A / AWG 24-8

## OMNIMATE® Power IT



Webcode # 01116

**SL 7.62IT**

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

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



Webcode # 01114

**BLZ 7.62IT**

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

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



Webcode # 11469

**SV-SMT 7.62IT**

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

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



Webcode # 01120

**SV 7.62IT**

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

- Male header
- Pitch: 7.62 mm
- Number of poles: 2-4
- IEC: 1,000 V / 41 A
- UL: 300 V / 40.5 A

## OMNIMATE® Power – PCB connectors

## OMNIMATE® Power IT



Webcode #01118

**BVZ 7.62IT**

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

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



Webcode #01124

**SU 10.16IT**

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

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



Webcode #01122

**BUZ 10.16IT**

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

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



Webcode #11479

**BUZ 10.16IT SH**

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

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 3-4
- IEC: 1,000 V / 76 A / 2.5-16 mm<sup>2</sup>
- UL: 600 V / 55 A / AWG 22-4

## OMNIMATE® Power IT



Webcode #11407

**BUF 10.16IT**

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

- PUSH IN spring connection
- Pitch: 10.16 mm
- Number of poles: 2-5
- IEC: 1,000 V / 76 A / 2.5 - 16 mm<sup>2</sup>
- UL: 600 V / 55 A / AWG 12 - AWG 4



Webcode #11471

**BUF 10.16IT SH**

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

- PUSH IN spring connection
- Pitch: 10.16 mm
- Number of poles: 3-4
- IEC: 1,000 V / 76 A / 2.5-16 mm<sup>2</sup>
- UL: 600 V / 55 A / AWG 12-4

OMNIMATE® Power HP 4 mm<sup>2</sup>

Webcode #01130

**SLZ 7.62HP**

Male header with single compartment mating profile and touch protection.

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



Webcode #01132

**SLZ 7.62HP**

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

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2-5
- IEC: 1,000 V / 20 A / 0.5-2.5 mm<sup>2</sup>
- UL: 600 V / 17 A / AWG 20-12



Webcode #01134

**SLF 7.62HP**

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

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



Webcode #11472

**SLF 7.62HP SH**

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

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 4
- IEC: 1,000 V / 24 A / 0.5-2.5 mm<sup>2</sup>
- UL: 600 V / 20 A / AWG 20-12



OMNIMATE® Power HP 4 mm<sup>2</sup>

Webcode #01126

**BLZ 7.62HP**

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

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



Webcode #01128

**BLF 7.62HP**

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

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



Webcode #01136

**BLL 7.62HP**

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

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

OMNIMATE® Power HP 10 mm<sup>2</sup>

Webcode #11473

**SV-SMT 7.62HP**

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

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



Webcode #01142

**SV 7.62HP**

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

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



Webcode#11474

**SVD 7.62HP**

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

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



Webcode #01144

**SVZ 7.62HP**

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

- Clamping yoke screw connection
- Pitch: 7.62 mm
- Number of poles: 2-7
- IEC: 1,000 V / 41 A / 0.2-6 mm<sup>2</sup>
- UL: 600 V / 35 A / AWG 24-10

## OMNIMATE® Power HP



Webcode #11475

**SVF 7.62HP**

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

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



Webcode #11476

**SVFL 7.62HP**

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

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



Webcode #01138

**BVZ 7.62HP**

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

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



## OMNIMATE® Power – PCB connectors

### OMNIMATE® Power HP



Webcode #11477

#### BVF 7.62HP

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

- PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2-5
- IEC: 1,000 V / 41 A / 0.5-10 mm<sup>2</sup>
- UL: 600 V / 35 A / AWG 24-8



Webcode #11478

#### BVFL 7.62HP

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

- Wire-Ready-PUSH IN spring connection
- Pitch: 7.62 mm
- Number of poles: 2-5
- IEC: 1,000 V / 41 A / 0.5-6 mm<sup>2</sup>
- UL: 600 V / 35 A / AWG 24-8



Webcode #01148

#### BVL 7.62HP

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

- Female header
- Pitch: 7.62 mm
- Number of poles: 2-7
- IEC: 1,000 V / 41 A
- UL: 300 V / 35 A

### OMNIMATE® Power HP 16 mm<sup>2</sup>

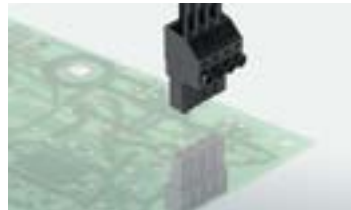


Webcode #01152

#### SU 10.16HP

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

- Male header
- Pitch: 10.16 mm
- Number of poles: 2-9
- IEC: 1,000 V / 76 A
- UL: 300 V / 60 A



Webcode #01154

#### SUZ 10.16HP

High-performance male plug with 180° outlet direction and high-strength contact system for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2-9
- IEC: 1,000 V / 78 A / 0.2-16 mm<sup>2</sup>
- UL: 600 V / 54 A / AWG 24-6



Webcode #01150

#### BUZ 10.16HP

High-performance female plug with 180° outlet direction for pole-loss-safe attachment or for use with patented multi-function flanges for TNC(S) networks.

- Clamping yoke screw connection
- Pitch: 10.16 mm
- Number of poles: 2-9
- IEC: 1,000 V / 78 A / 0.2-16 mm<sup>2</sup>
- UL: 600 V / 60 A / AWG 22-4



Webcode #01156

#### BUL 10.16HP

High-performance female header with 180° outlet direction and high-strength contact system for TNC(S) networks.

- Female header
- Pitch: 10.16 mm
- Number of poles: 2-4
- IEC: 1,000 V / 76 A
- UL: 300 V / 57 A

## OMNIMATE® Power - Panel Feedthrough

### PUSH IN spring connection



Webcode #01158

#### PGK

Device feedthrough terminal blocks with disc design and intuitive locking for a quick and compact solution.

- PUSH IN spring connection
- Connection cross-section: up to 4 mm<sup>2</sup>
- IEC: 500 V / 32 A / 0.5-4 mm<sup>2</sup>
- UL: 300 V / 30 A / AWG 24-10

### Clamping yoke screw connection



Webcode #01160

#### WGK

High-current feed-through terminals as a universal solution to guide currents of various scales through the device wall.

- Clamping yoke screw connection
- Connection cross-section: 6 to 95 mm<sup>2</sup>
- IEC: 1,000 V / 232 A / 0.5-95 mm<sup>2</sup>
- UL: 600 V / 230 A / AWG 24-4/0

### Accessories



Webcode #11463

#### Accessories

For Power feed-through terminals

## OMNIMATE® Data

Reliable data interfaces for your device

Plug-in connectors and jacks for data transmission are already an integral part of the future-proof device design. In the industrial environment, they have to stand up to exacting requirements and the ever-increasing data transmission rates demand high-quality on individual components.

Weidmüller data connectors provide the solutions you are looking for. RJ45, USB and D-SUB PCB connectors ensure a safe and efficient interface to your device.

The fully shielded product range boasts high levels of electromagnetic compatibility, caters to all established outlet angles, and includes latching hooks on the top and bottom as well as an innovative **STEADYTEC®** connection system for an industry-standard design.

Benefit from using our coordinated and high-performance components and a wide range of potential applications.





### OMNIMATE® Data

#### RJ45 PCB jacks

- Future-proof transmission characteristics up to Cat 6 standard for a data rate of up to 1 Gbit/s
- Electromagnetic compatibility and protection through 360° shielding
- RJ45 transformer jacks with integrated "magnetics" actively counteract faults and save space on the board
- Reinforced gold layer improves corrosion protection, reduces contact problems and guarantees a long service life
- Many different design types also with integrated LEDs and shield contact lugs
- Extended temperature range from -40 °C to +85 °C for maximum performance



### OMNIMATE® Data

#### USB PCB jacks

- Robust plug & play operation - connect and disconnect without shutting down or restarting the system
- Reinforced gold surface - up to 1,500 plugging cycles meet the requirements for high resistance
- USB 3.0 jacks supported data rate of 5 Gbit/s for fast data transfer
- High rated current of up to 1.5 A provides sufficient safety reserves with a maximum charging current of 0.9 A
- Flexible deployment thanks to the compatibility of USB 3.0 hosts and devices with version 2.0



### OMNIMATE® Data

#### D-SUB PCB jacks

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

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

### PCB modular jack



Webcode # 11413

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

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



Webcode # 11414

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

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



Webcode # 11415

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

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

### RJ45 transformer jacks



Webcode # 11416

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

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



Webcode # 11417

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

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



Webcode # 11418

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

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



Webcode # 11419

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

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

### Plug-in connectors



Webcode # 11312

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

- IDC connection, 4-8-core
- Outlet direction: 180°
- Category: Cat.5 and Cat.6<sub>A</sub>
- AWG 26...AWG 22 / 0.48...0.76 mm<sup>2</sup>



Webcode # 11315

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

- Pierce connection, 4-8-core
- Outlet direction: 90° and 180°
- Category: Cat.5 and Cat.6<sub>A</sub>
- AWG 27...AWG 24 / 0.46...0.61 mm<sup>2</sup>

### Patch cable



Webcode # 11313

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

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



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

### USB jacks



Webcode # 11420

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

- Outlet direction: 90° and 180°
- Performance Category: up to 5 Gbit/s
- Plugging cycles: ≥1,500
- Packed in tray



Webcode # 11421

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

- Outlet direction: 180°
- Performance Category: up to 5 Gbit/s
- Plugging cycles: ≥1,500
- Packed in tray or ToR



Webcode # 11422

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

- Outlet direction: 90°
- Performance Category: up to 5 Gbit/s
- Plugging cycles: ≥1,500
- Packed in ToR

### D-SUB jacks



Webcode # 11462

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

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

## OMNIMATE® Data – M8 and M12 PCB jacks

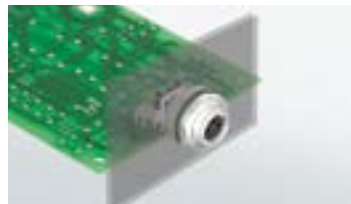
### M8



Webcode # 11364

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

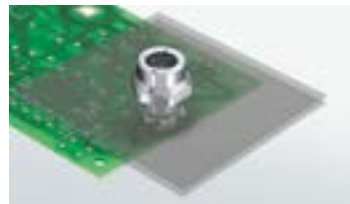
- Number of poles: 3, 4, 8
- Female and male contact
- SMT, THR
- Shielded and unshielded



Webcode # 11366

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

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



Webcode # 11368

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

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

### Sensor-actuator interface product configurator

The sensor-actuator-interface cable configurator allows you to custom-create assembled SAI cables (sensor/bus cables) according to your requirements and specifications. You have the choice of configuring a cable which is identical on both ends, or with two different mating profiles, or with one end left open. The cable configurator can also automatically create technical data sheets for all of your customized cable variants.

Webcode # 11362

### M12



Webcode # 11352

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

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



Webcode # 11354

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

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



Webcode # 11356

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

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

## Shape design-in processes in a uniquely efficient way

Our services make sure you get perfect results

They develop connection systems for PCBs and devices based on the final application. Our specialists will gladly provide you with really concrete support with your design-in process, with expertise, advice and a range of useful services.

Our design-in application specialists know your working environment intimately and will support you from the specifications stage right through to series production of your individual solution. Not only will you benefit from our OMNIMATE® services such as the product configurator with 3D Types available for download, or the unparalleled 72-hour sample service for your free design-in samples; you'll also have access to a wide range of additional services designed to make your day-to-day work quicker, easier and more professional.

Webcode  
#01167



Webcode #01163

### 72-hour sample service

Just order your design-in samples, quickly and easily. Make the most of the free 72-hour sample service for OMNIMATE®. Wherever you're situated, we always keep our word and deliver your samples to the desired location within 72 hours.



Webcode #01201

### Webinars on practical issues

Exciting online seminars on relevant issues relating to device connection systems will help you with the practical aspects of your project. All webinar services are free of charge. You can find out dates, topics and presenters quickly and easily using the corresponding webcode.

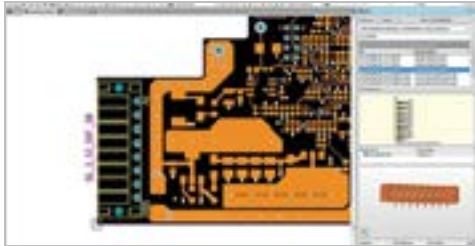


Webcode #11359

### Whitepaper

We share our expertise: Find out detailed information and interesting facts about trend topics in the field of device connectivity in our Whitepaper section.

# OMNIMATE® Services



Webcode #01203

### Component library for electronic PCB design

Switching symbols and the painstaking creation of footprints are now things of the past. We offer extensive component libraries of OMNIMATE® PCB terminals and PCB connectors for a wide range of different EDA systems. Simply download and import the data set and you're ready to go.



b2b.partcommunity.com

### CAD Types in the Part Community

CAD Types for our OMNIMATE® PCB connection systems can be found in one of the industry's most important online forums. The "Part Community" allows engineers and technicians to trade knowledge on technical topics in all fields. The Community's online catalogue contains the exact dimensions and all other relevant data for our products.



Webcode #11347

### Technical information

The OMNIMATE® device connection methodology is highly flexible, ensuring your application requirements are met. The more familiar you are with it, the easier it is to find the optimum component.



### Safe and easy product handling

A QR code on the product and the outer packaging leads directly to the corresponding handling video. The individual installation steps can be followed directly during processing.



### On-site advice by application specialists

We develop connection systems for PCBs and devices based on the application. And if you can involve us in your development at an early stage – even better. As part of our personal on-site customer consultancy service, our application specialists will meet with your technicians to discuss questions and problems relating to your project.



### Ready-to-connect cables for every requirement

From pre-assembled cabling solutions to custom special cables, ensuring reliable and efficient connections is a challenging task. We support you with our demand-oriented assembly services to handle even the most complex of cabling tasks.

## Services and Support

Weidmüller offers custom design, engineering and assembly services—solutions that ensure you have the right product at the right time for your application. Partnering with our expert knowledge and experience allows your engineers to concentrate their time, energy and resources on maintaining your application goals.

Partner with Weidmüller for custom products when:

- Reduction of panel space requires condensed functionality
- Standard products do not meet your unique application need
- You need an expert designer to offer innovative solutions
- You need a truly inventive product to place you ahead of the competition
- Market pressures dictate a rapid turnaround on a custom product design



### Weidmüller Offers Unmatched Expertise and Products

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Over 60 years of unparalleled innovative product design, manufacturing knowledge and experience</li> <li>• Universal understanding of applications and approvals enabling us to develop solutions for customers worldwide</li> <li>• Experienced design team to pinpoint your exact specifications</li> <li>• Expert and accessible technical support team</li> <li>• The ability to flexibly accommodate specialty components from other manufacturers, if required by your application</li> <li>• Quality assurance of our products, as an ISO 9001 inspection point</li> </ul> | <p>Our design and engineering services include:</p> <ul style="list-style-type: none"> <li>• Controller front panel adapters</li> <li>• DIN-rail terminal blocks</li> <li>• Controller interface products</li> </ul> <p>Our custom assembly services include:</p> <ul style="list-style-type: none"> <li>• Pre-assembled DIN-rail modules</li> <li>• Population of the backplane for enclosures</li> <li>• Custom marking—plotter printing, wire and cable marking and equipment marking</li> <li>• Kitting of parts you use routinely</li> </ul> |
|--|---|



## Industrial and Hazardous Certified Enclosures

At Weidmüller, we have the resources and capabilities to design and build both industrial and ATEX certified enclosures. We handle every aspect of the process:

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

Weidmüller is a Certified ATEX Installation House—ATEX licensed to design and build ATEX certified enclosures, providing you with all the required documentation and certification, and reducing your risk in hazardous locations.



Please contact Weidmüller for certified industrial and hazardous options.

# Electronics



**Electronics lie at the heart of your automation technology.  
We provide products with intelligence.**



# Din-Rail Mount AC Receptacles

## Convenient Power

### Features

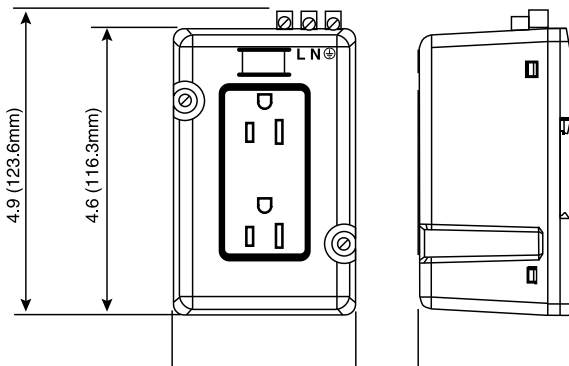
- Flexible Mounting: 35mm DIN-rail or panel mounted
- Design Flexibility: Choice of 15A or 20A 120VAC in a duplex or GFCI version
- Single Unit Module: Right out of the box, snap on the DIN-rail and wire it up
- UL508A and cULus Listed: Easy addition to any and every control panel or system
- Visual Power Indication: Ease of trouble shooting and status notification on selected Types

### DRAC

- This DIN-rail mountable duplex receptacle makes adding a 120V maintenance AC outlet to control cabinets quick and easy
- It mounts on standard 35mm DIN-rail
- Short Circuit Current Rate (SCCR) 10kA

Description	Order Number
DRAC DP 20 - 20A, 120VAC Dual Outlet - SCCR 10kA	6720005420
DRAC DP 15 - 15A, 120VAC Dual Outlet - SCCR 10kA	6720005421
DRAC GF 15 - 15A, 120VAC GFI Outlet - SCCR 10kA	6720005422
DRAC GF 20 - 20A, 120VAC GFI Outlet - SCCR 10kA	6720005423

cULus, file E223801



Dual Outlet

GFCI

### RS-Simplex

- TS 32 and TS 35 rail mountable
- Versions with or without circuit breaker
- Super small design
- Short Circuit Current Rate (SCCR) 10kA

Description	Order Number
RS-Simplex 15A, 120V Single Outlet - SCCR 10kA	9915480000
RS-Simplex 5A, 120VAC Outlet with Circuit Breaker - SCCR 10kA	9915480001

cURus, file E223801



Single Outlet

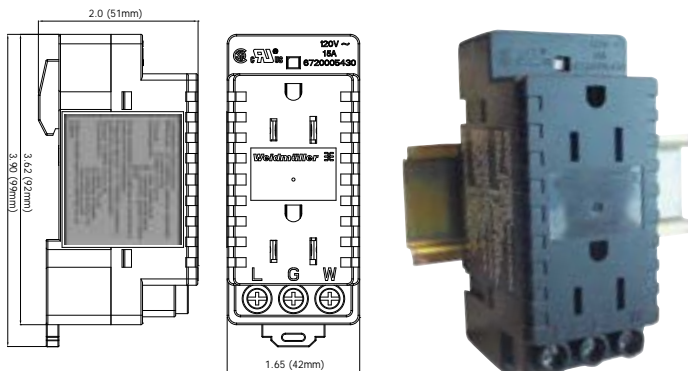
Single Outlet w/ Circuit Breaker

### Slimline Duplex

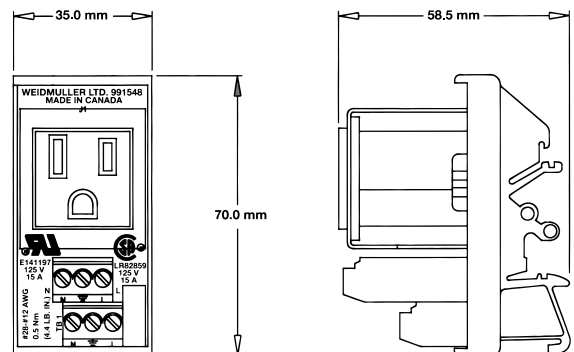
- Requires just 42mm of DIN-rail and includes power status LED
- Latching mounting foot makes installation and removal from DIN-rail easy
- CSA certified and cURus recognized
- Short Circuit Current Rate (SCCR) 10kA

Description	Order Number
Duplex 15A, 120VAC Outlet with LED - SCCR 10kA	6720005430

cURus, file E340886



Duplex w/ LED



# Surge Protection

Electronics



## Exceptional Protection with High-quality Products

Due to the increasing connections and interactions of components and systems, the protection of individual areas is becoming of decisive importance. And surge protection plays a more important role than ever before. As a long-term, innovative partner, Weidmüller stands for reliable high-quality products for circuit and surge protection. In-depth specialist knowledge and hundreds of tailor-made protection solutions make us your ideal partner.

# Surge Protection

The world is becoming more and more digital and surge protection is playing a more important role than ever before. Technical infrastructures and plants have become increasingly complex and sensitive. Due to the increasing connections and interactions of components and systems, the protection of individual areas has become of decisive importance.

As a long-term, innovative partner, Weidmüller stands for reliability and high-quality products for surge protection. With specialization and expertise, we have developed hundreds of tailor-made surge protection solutions which make us your ideal partner. With our broad and comprehensive VARITECTOR product portfolio we offer surge protection for energy systems, for instrumentation and control, and for data interfaces.



## TYPE I AC Surge Protection

### VARITECTOR PU AC Series – VPU AC I

Type 1/Class 1 Surge protection for AC surge protection before the service panel. Tested by IEC/EN 61643-11 up to 25 kA (10/350µs) lightning pulses, this device supports all common energy grids like TNC, TNCS, TNS and TT for 230/400 V or 400/690 V systems. VPU AC I series devices combines both varistor/spark gap technology in each arrester.

#### Features

- Fuseless operation up to 315 A
- Replaceable and lockable arrester for reliability and security
- Full Status Control (Local display and remote signaling)
- DIN-Rail TS-35 mountable with space saving design at only 18mm/pole
- N/PE surge arresters in the product variants VPU AC 1+1 & VPU AC 1+1 R, also in 3+1 variants

#### Applications

- Panelboards
- Motor pumps
- Healthcare
- Computer equipment
- Transfer switch
- UPS system
- Building management systems
- Switchboard



Network Configuration						
Type	Voltage UL Un	IEC Grid Type	UL Grid Type	Type/Class	Approvals	Order Number
VPU AC I 1 300/12.5	110V, 120V, 220V, 240V	TN-C				2591380000
VPU AC I 1 R 300/12.5	110V, 120V, 220V, 240V	TN-C				2591390000
VPU AC I 1+1 300/12.5	110V, 120V, 220V, 240V	TN-C, TN-C-S, TN-S, TT		Single Phase		2591480000
VPU AC I 1+1 R 300/12.5	110V, 120V, 220V, 240V	TN-C, TN-C, TN-S, TT			2591490000	
VPU AC I 2 300/12.5	110V, 120V, 220V, 240V	TN-C				2591400000
VPU AC I 2 R 300/12.5	110V, 120V, 220V, 240V	TN-C				2591410000
VPU AC I 3 300/12.5	240V, 120/240V	TN-C		Single Split Phase, Delta Ungrounded, Delta Grounded Corner	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591440000
VPU AC I 3 R 300/12.5	240V, 120/240V	TN-C				2591440000
VPU AC I 3+1 300/12.5	120/208V, 120/240V	TN-C-S, TN-S, TT		Three Phase WYE, Delta High Leg		2591460000
VPU AC I 3+1 R 300/12.5	120/208V, 120/240V	TN-C-S, TN-S, TT			2591470000	
VPU AC I 4 300/12.5	120/208V, 120/240V	TN-C-S, TN-S		Three Phase WYE, Delta High Leg		2591420000
VPU AC I 4 R 300/12.5	120/208V, 120/240V	TN-C-S, TN-S			2591430000	

## TYPE II AC Surge Protection

### VARITECTOR PU AC Series – VPU AC II US / VPU AC II

cULus Listed Type 2/Type 1 CA Surge protection for AC installations after the service entrance and or TYPE 1 CA after the transformer. The VARITECTOR portfolio offers lightning and surge protection solutions for voltages from 60 V to 600 VAC for diverse applications in energy supply, renewable energies, water management, machinery, transportation, and process industry. The products are tested according to the latest standards EN 61643-11/12 (AC) and UL 1449 Ed. 4 to meet NFPA 79.



#### Features

- No back-up fuse needed up to 315 A
- Replaceable and lockable MOV Protection
- GDT and MOV Protection Options
- Full Status Control (Local display and remote signaling)
- DIN-Rail TS-35 mountable with space saving design at only 18mm/pole
- N/PE surge arresters in the product variants VPU AC 3+1 & VPU AC 1+1

#### Applications

- Water/Wastewater Treatment
- Oil & Gas
- Billboards
- Machinery (inside dwelling)
- Factory Automation
- MCC centers
- Railway stations/Railways
- Data Centers

Network Configuration						
Type	Voltage UL Un	IEC Grid Type	UL Grid Type	Type/Class	Approvals	Order Number
VPU AC II 1 75/50	60V	TN-C	Single Phase	Type 2/Class 1CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2636990000
VPU AC II US 1 60/50	60V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736210000
VPU AC II 1 R 75/50	60V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591620000
VPU AC II US 1 R 60/50	60V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736270000
VPU AC II 2 75/50	60/120V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637000000
VPU AC II US 2 60/50	60/120V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736280000
VPU AC II 2 R 75/50	60/120V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591630000
VPU AC II US 2 R 60/50	60/120V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730790000
VPU AC II 1 150/50	120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591650000
VPU AC II US 1 120/50	120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730450000
VPU AC II 1 R 150/50	120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591660000
VPU AC II US 1 R 120/50	120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730460000
VPU AC II 2 150/50	110V, 120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591670000
VPU AC II US 2 120/50	110V, 120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730470000
VPU AC II 2 R 150/50	110V, 120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591680000
VPU AC II US 2 R 120/50	110V, 120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730480000
VPU AC II 3 150/50	120/240V	TN-C	Single Split Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591690000
VPU AC II US 3 120/50	120/240V	TN-C	Single Split Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730510000
VPU AC II 3 R 150/50	120/240V	TN-C	Single Split Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591700000
VPU AC II US 3 R 120/50	120/240V	TN-C	Single Split Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730520000

## VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

Network Configuration						
Type	Voltage UL Un	IEC Grid Type	UL Grid Type	Type/Class	Approvals	Order Number
VPU AC II 4 150/50	120/208V	TN-C	Three Phase WYE w/Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591710000
VPU AC II US 4 120/50	120/208V	TN-C	Three Phase WYE w/Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730490000
VPU AC II 4 R 150/50	120/208V	TN-C	Three Phase WYE	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591000000
VPU AC II US 4 R 120/50	120/208V	TN-C	Three Phase WYE	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730500000
VPU AC II 1 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591020000
VPU AC II US 1 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736300000
VPU AC II 1 R 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591030000
VPU AC II US 1 R 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736310000
VPU AC II 1+1 300/50	110V, 20V, 220V, 240V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591060000
VPU AC II US 1+1 240/50	110V, 120V, 220V, 240V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736340000
VPU AC II 1+1 R 300/50	110V, 20V, 220V, 240V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591070000
VPU AC II US 1+1 R 240/50	110V, 120V, 220V, 240V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736350000
VPU AC II 2 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591040000
VPU AC II US 2 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736320000
VPU AC II 2 R 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591050000
VPU AC II US 2 R 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736330000
VPU AC II 3 300/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591160000
VPU AC II US 3 240/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730540000
VPU AC II 3 R 300/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2591170000
VPU AC II US 3 R 240/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730550000
VPU AC II 3+1 300/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591080000
VPU AC II US 3+1 240/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736360000
VPU AC II 3+1 R 300/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591090000
VPU AC II US 3+1 R 240/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736390000
VPU AC II 4 300/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591140000
VPU AC II US 4 240/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736400000
VPU AC II 4 R 300/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591150000
VPU AC II US 4 R 240/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736410000
VPU AC II 1 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591350000
VPU AC II US 1 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730570000
VPU AC II 1 R 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591360000
VPU AC II US 1 R 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730580000
VPU AC II 1+1 350/50	240V, 277V	TN, TN-S, TT	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637030000
VPU AC II US 1+1 277/50	240V, 277V	TN, TN-S, TT	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730650000



## VARIRECTOR PU AC Series – VPU AC II US / VPU AC II continued

Network Configuration						
Type	Voltage UL Un	IEC Grid Type	UL Grid Type	Type/Class	Approvals	Order Number
VPU AC II 1+1 R 350/50	240V, 277V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637040000
VPU AC II US 1+1 R 277/50	240V, 277V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730660000
VPU AC II 2 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637010000
VPU AC II US 2 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730630000
VPU AC II 2 R 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637020000
VPU AC II US 2 R 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730640000
VPU AC II 3 350/50	277/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591100000
VPU AC II US 3 277/50	277/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730590000
VPU AC II 3 R 350/50	277V/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591110000
VPU AC II US 3 R 277/50	277V/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730600000
VPU AC II 3+1 350/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637050000
VPU AC II US 3+1 277/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730670000
VPU AC II 3+1 R 350/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2637060000
VPU AC II US 3+1 R 277/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730680000
VPU AC II 4 350/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591120000
VPU AC II US 4 277/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase Wye w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730610000
VPU AC II 4 R 350/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591130000
VPU AC II US 4 R 277/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730620000
VPU AC II 1 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591210000
VPU AC II US 1 400/50	400V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730700000
VPU AC II 1 R 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591220000
VPU AC II US 1 R 400/50	400V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730710000

## VARIRECTOR PU AC Series – VPU AC II US / VPU AC II continued

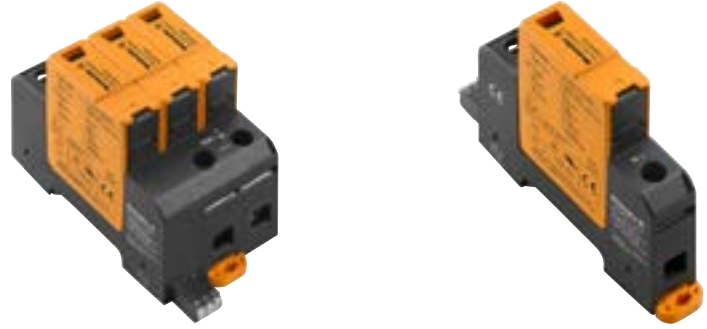
Network Configuration						
Type	Voltage UL Un	IEC Grid Type	UL Grid Type	Type/Class	Approvals	Order Number
VPU AC II 2 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591230000
VPU AC II 2 R 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591240000
VPU AC II 3 480/50	277/480V	TN-C	Three Phase WYE w/o Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591250000
VPU AC II US 3 400/50	277/480V	TN-C	Three Phase WYE w/o Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730720000
VPU AC II 3 R 480/50	277/480V	TN-C	Three Phase WYE w/o Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591260000
VPU AC II US 3 R 400/50	277/480V	TN-C	Three Phase WYE w/o Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730730000
VPU AC II 4 480/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591270000
VPU AC II US 4 400/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730740000
VPU AC II 4 R 480/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591280000
VPU AC II US 4 R 400/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730750000
VPU AC II 1 R 750/35	600V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591300000
VPU AC II US 1 R 600/35	600V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736420000
VPU AC II 2 R 750/35	600V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591310000
VPU AC II US 2 R 600/35	600V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736430000
VPU AC II 3 R 750/35	480V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591320000
VPU AC II US 3 R 600/35	480V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2730780000
VPU AC II 1 N-PE 305/65	240V	TT	Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2591180000

Learn more about our VARIRECTOR lightning and surge protection products, including the *VARIRECTOR Selector Guide for North America* on our website at [www.weidmuller.com/varitector](http://www.weidmuller.com/varitector)

## TYPE II AC Surge Protection

### VARITECTOR PU AC Series – VPU AC II “Y”

cULus Listed Type 2/Type 1CA Surge protection for AC surge protection after the service panel. The VPU AC II range of surge protectors all offer end of life optical status indication. In addition, the “Y” variant provides a Yellow pre-warning status before complete failure of the arrester. This 2-stage indication provided (visually and via dry contact) gives users ease of maintenance before fully replacing the cartridge.



Network Configuration						
Type	Typical Supply Voltage UL	IEC Grid Type	UL Grid Type	Type/Class	Approvals	Order Number
VPU AC II 1 R 300/50 Y	110V, 120V, 220V, 240V	TN-C	Single Phase	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2639350000
VPU AC II US 1 R 240/50 Y	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736470000
VPU AC II 1+1 R 300/50 Y	110V, 120V, 220V, 240V	TN, TN-S, TT	Single Phase	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2639340000
VPU AC II US 1+1 R 240/50 Y	110V, 120V, 220V, 240V	TN, TN-S, TT	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736460000
VPU AC II 2 R 300/50 Y	110V, 120V, 220V, 240V	TN	Single Phase	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2639360000
VPU AC II US 2 R 240/50 Y	110V, 120V, 220V, 240V	TN	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736480000
VPU AC II 3 R 300/50 Y	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2639330000
VPU AC II US 3 R 240/50 Y	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736450000
VPU AC II 3+1 R 300/50 Y	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2639320000
VPU AC II US 3+1 R 240/50 Y	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736440000
VPU AC II 4 R 300/50 Y	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	2639370000
VPU AC II US 4 R 240/50 Y	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	2736490000

### Accessories

Type	Description	Order Number
SDIK PH1	VDE-insulated crosshead screwdriver, Phillips size 1, Blade length 80 mm	9008570000
SDIS 1.0X5.5X125	VDE-insulated screwdriver with slotted blade 1.0x5.5x125 mm	9008410000
ESG 6/15 K MC NE WS	ESG, Device marker x 15mm, PA 66, Color: white, Self-Adhesive	1880100000
VPU AC II 0 150/50	Spare Arrester for All VPU AC II 150/50 Surge protectors	2591640000
VPU AC II US 0 120/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.25 kV	2730440000
VPU AC II 0 300/50	Spare Arrester for All VPU AC II 300/50 Surge protectors	2591010000
VPU AC II US 0 240/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.5 kV	2730530000
VPU AC II 0 350/50	Spare Arrester for All VPU AC II 350/50 Surge protectors	2591340000
VPU AC II US 0 277/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.75 kV	2730560000
VPU AC II 0 480/50	Spare Arrester for All VPU AC II 480/50 Surge protectors	2591200000
VPU AC II US 0 400/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 2.3 kV	2730690000
VPU AC II 0 750/35	Spare Arrester for All VPU AC II 750/35 Surge protectors	2591290000
VPU AC II US 0 600/35	Spare arrester, Surge protection, UP(L/N-PE) ≤ 3.4 kV	2730760000
VPU AC II 0 300/50 Y	Spare Arrester for All VPU AC II 300/50 Y Surge protectors	2659840000
VPU AC II US 0 240/50 Y	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.5 kV	2736500000
VPU AC II 0 N-PE 305/65 Y	Spare Arrester for All VPU AC II N-PE 305/65 Y Surge protectors	2659950000
VPU AC II US 0 N-PE 240/65	Spare arrester, Surge protection, TT only for N-PE, UP(L/N-PE) ≤ 1.5 kV	2726820000
PLUG VPU	Remote Status Indicator Connector for ALL VPU AC Types	1402570000



VPU AC II 0 150/50

## Instrumentation and Control (I&C) Surge Protection

### VARIRECTOR SPC – VSPC and VSPC EX

Surge protection for installation at the immediate vicinity of I&C devices, before the service panel. The VARIRECTOR SPC features a pluggable arrester which can be easily replaced or tested without any re-wiring. The simple snap-on VSPC BASE allows for convenient mounting while simultaneously establishing a PE contact via the mounting rail.

Featuring both, simple operation and high packaging density, the VSPC provides high-quality surge protection for all I&C signals. A colored voltage marker tag allows maintenance staff to quickly identify the unit in the cabinet. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes (GDT) or varistors (MOV).

#### Features

- UL 497B approved, standard for Data Comm./Fire-Alarm Circuits
- V-Ground for earthing all sensor signals
- Pluggable arrester with locking clip gives ability to withstand extreme loads
- Remote signaling for monitoring and capability to control via the VSPC CONTROL UNIT.
- Single or multi-channel options
- Hazardous variants with cCSAus approval for use in C1 div2, Zone 2 locations
- AC/DC (UC) rated voltage variants 5 VUC, 12 VUC, 24 VUC and 48 VUC with color code for voltage levels.

#### Applications

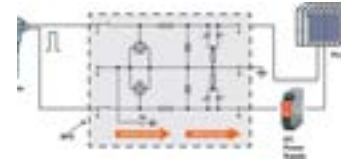
- Water/Waste Water Treatment
- Oil & Gas
- Machinery
- Power Supply circuits
- Measurement and control
- Data processing
- Telecom



VSPC Surge Protector - Pluggable



VSPC Control Unit



Connection Diagram



V-Test

Type	Description	Order Number
VSPC 1CL 12VDC		8924450000
VSPC 1CL 12VDC R		8951540000
VSPC 1CL 24VDC		8924480000
VSPC 1CL 24VDC R	1 or 2 channel current loop protection – some with remote alarm option	8951550000
VSPC 1CL PW 24		8951510000
VSPC 2CL 12VDC		8924440000
VSPC 2CL 24VDC		8924470000
VSPC 2CL HF 24VDC		8924510000
VSPC 2SL 12VDC		8924230000
VSPC 2SL 24VDC		8924330000
VSPC 4SL 5VDC		8924200000
VSPC 4SL 5VDC R		8951570000
VSPC 2SL 5VDC		8924210000
VSPC 2SL 5VDC R	2 or 4 wire status loop protection – some with remote alarm option	8951610000
VSPC 4SL 24VDC		8924320000
VSPC 4SL 24VDC R		8951590000
VSPC 4SL 24VAC		8924340000
VSPC 4SL 24VAC R		8951600000
VSPC 2SL 24VAC		8924350000
VSPC 2SL 24VAC R		8951640000

Type	Description	Order Number
VSPC 3/4WIRE 24VDC	sensor protection	8924550000
VSPC GDT 2CH 150VAC/230VDC	general purpose protection	8924590000
VSPC MOV 2CH 230V		8924610000
VSPC RS485 2CH	serial data protection	8924670000
VSPC BASE 1CL		8924730000
VSPC BASE 1CL R		8951730000
VSPC BASE 1CL FG		8924290000
VSPC BASE 1CL PW	bases for current loop or status loop protectors	1070230000
VSPC BASE 2CL		8924710000
VSPC BASE 2CL FG		8924270000
VSPC BASE 2SL		8924720000
VSPC BASE 2/4CH		8924740000
VSPC BASE 2/4CH FG	bases for 2 and 4 channel protectors	8924300000
VSPC BASE 2/4CH R		8951790000
VSPC BASE 2/4CH FG R		8951800000
VSPC CONTROL UNIT 24VDC	for remote status display	8972270000
V-TEST	Portable tester for VSPC	8951860000
V-TEST II	Portable tester for VPU	2661040000
* Additional Types available		

## Protection in Intrinsically Safe Circuits

### VARITECTOR SPC EX

#### Features

- Approved for use in Zones 2 and 1
- Pluggable arresters
- Can be tested with the V-TEST device
- Available with floating earth PE connections
- Can be used with IEC 62305 and ATEX applications
- Tested in accordance with IEC 61643-21:08 D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations



SPC EX

Type	Description	Operating Temperature	Order Number
VSPC 1CL 5 V DC EX	Analog Signal Surge single signal arrester 5 V DC	-40°C to +70°C	8953660000
VSPC 1CL 12 V DC EX	Analog Signal Surge single signal arrester 12 V DC	-40°C to +70°C	8953590000
VSPC 1CL 24 V DC EX	Analog Signal Surge single signal arrester 24 V DC	-40°C to +70°C	8953600000
VSPC BASE 1CL FG EX	EX base, indirect earthing/floating earth	-40°C to +70°C	8951810000
VSPC 2CL 24 V DC EX	Analog Signal Surge two signals arrester 24 V DC	-40°C to +70°C	8953720000
VSPC BASE 2CL FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	8951820000
VSPC 1CL PW 24V EX	Current loop signal and device surge arrester 24 V DC	-40°C to +70°C	8953610000
VSPC BASE 1CL PW FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	1070470000
VSPC 2SL 12 V DC EX	Surge protection for two binary signals 12 V DC	-40°C to +70°C	8953620000
VSPC 2SL 12 V AC EX	Surge protection for two binary signals 12 V AC	-40°C to +70°C	8953630000
VSPC 2SL 24 V DC EX	Surge protection for two binary signals 24 V DC	-40°C to +70°C	8953670000
VSPC 2SL 48 V AC EX	Surge protection for two binary signals 48 V AC	-40°C to +70°C	8953640000
VSPC BASE 2CL PW FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	8951830000
VSPC 4SL 12 V DC EX	Surge protection for four binary signals 12 V DC	-40°C to +70°C	1161170000
VSPC 4SL 12 V AC EX	Surge protection for four binary signals 12 V AC	-40°C to +70°C	1161150000
VSPC 4SL 24 V DC EX	Surge protection for four binary signals 24 V DC	-40°C to +70°C	1161190000
VSPC 4SL 48 V AC EX	Surge protection for four binary signals 48 V AC	-40°C to +70°C	1161180000
VSPC BASE 4CL PW FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	8951840000
VSPC 3/4 WIRE 5 V DC EX	Surge protection for 3/4 wire signals 5 V DC	-40°C to +70°C	8953650000
VSPC BASE 4SL FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	8951840000



#### Accessories

Type	Description	Order Number
V-Test	Portable test for VSPC pluggable arresters	8951860000
VSPC Control Unit	Monitoring remote alarms of individual VSPC...R modules. (max . of 10 units)	8972270000
VSPC LOCKING CLIP	Fastening element	9008570000
DEK 5/5 PLUS MC NE WS	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, white	1854490000
QB 17.8 / 2	Cross connectors between the VSPC signal contacts & Control Unit	1309470000



## VARITECTOR SSC4 – VSSC4 and VSSC4 EX

### VSSC 4 CL and CL FG – Surge Protection for Analog Signals

#### Features

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC4 CL 12VDC 0.5A	Surge protector for analog signals 12 VDC	<b>1063720000</b>
VSSC4 CL FG 12 VDC 0.5A	Surge protector for analog signals 12 VDC with Floating Ground	<b>1063760000</b>
VSSC4 CL 24 VAC/DC 0.5A	Surge protector for analog signals 24 VUC	<b>1063730000</b>
VSSC4 CL FG 24 VAC/DC 0.5A	Surge protector for analog signals 24 VUC with Floating Ground	<b>1063770000</b>
VSSC4 CL 48 VAC/DC 0.5A	Surge protector for analog signals 48 VUC	<b>1063740000</b>
VSSC4 CL FG 48 VAC/DC 0.5A	Surge protector for analog signals 48 VUC with Floating Ground	<b>1063780000</b>
VSSC4 CL 60 VAC/DC 0.5A	Surge protector for analog signals 60 VUC	<b>1063750000</b>
VSSC4 CL FG 60 VAC/DC 0.5A	Surge protector for analog signals 60 VUC with Floating Ground	<b>1063790000</b>



VSSC 4 CL and CL FG

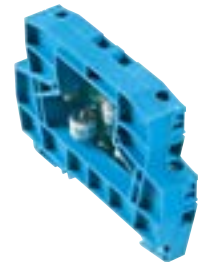
## VARITECTOR SSC EX

### VSSC 4 CL FG EX – Surge Protection for Floating Earth, Intrinsically Safe Current Loops

#### Features

- 2-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 12.4mm
- Version with floating earth PE connection
- Complies with IEC 62305 and ATEX applications
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

Type	Description	Order Number
VSSC4 CL FG 24VAC/DC Ex	Surge protector floating earth 24 VAC/DC	<b>1063810000</b>
VSSC4 CL FG 48VAC/DC Ex	Surge protector floating earth 48 VAC/DC	<b>1063820000</b>
AP VSSC4 LB	End Plate	<b>1067240000</b>



VSSC 4 CL FG EX

### VSSC 4 SL and SL CL FG – Surge Protection for Binary Signals with Signal Display

#### Features

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-2-1: D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC4 SL LD 12VDC 0.5A	Surge protector for binary signals 12 VDC	<b>1063830000</b>
VSSC4 SL FG LD 12 VDC 0.5A	Surge protector for binary signals 12 VDC with Floating Ground	<b>1063880000</b>
VSSC4 SL LD 24 VAC/DC 0.5A	Surge protector for binary signals 24 VUC	<b>1063840000</b>
VSSC4 SL FG LD 24 VAC/DC 0.5A	Surge protector for binary signals 24 VUC with Floating Ground	<b>1063890000</b>
VSSC4 SL LD 48 VAC/DC 0.5A	Surge protector for binary signals 48 VUC	<b>1063860000</b>
VSSC4 SL FG LD 48 VAC/DC 0.5A	Surge protector for binary signals 48 VUC with Floating Ground	<b>1063910000</b>
VSSC4 SL LD 60 VAC/DC 0.5A	Surge protector for binary signals 60 VUC	<b>1063870000</b>
VSSC4 SL FG LD 60 VAC/DC 0.5A	Surge protector for binary signals 60 VUC with Floating Ground	<b>1063920000</b>

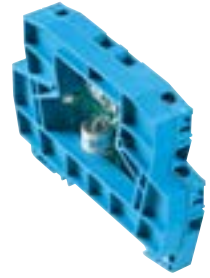


VSSC 4 SL and SL CL FG

### VSSC 4 SL FG EX – Surge Protection for Floating Earth, Binary, Intrinsically Safe Current Loops

- 2-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 12.4mm
- Version with 1 binary floating ground signal
- Complies with IEC 62305 and ATEX applications
- Complies with IEC 61643-21:08 D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

Type	Description	Order Number
VSSC4 SL FG 24VAC/DC Ex	Surge protector floating earth 24 VAC/DC	<b>1063930000</b>
VSSC4 SL FG 48VAC/DC Ex	Surge protector floating earth 48 VAC/DC	<b>1063940000</b>
AP VSSC4 LB	End Plate	<b>1067240000</b>



VSSC 4 SL FG EX

### VSSC 4 MOV – Surge Protection with Varistor

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC4 MOV 12VDC	Surge protector with varistor 12 VDC	<b>1063950000</b>
VSSC4 MOV 24VDC/AC	Surge protector with varistor 24 VAC/DC	<b>1063960000</b>
VSSC4 MOV 48 VAC/DC	Surge protector with varistor 48 VAC/DC	<b>1063970000</b>
VSSC4 MOV 60 VAC/DC	Surge protector with varistor 60 VAC/DC	<b>1063980000</b>
VSSC4 MOV 120 VAC/DC	Surge protector with varistor 120 VAC/DC	<b>1063990000</b>
VSSC4 MOV 150 VAC/DC	Surge protector with varistor 150 VAC/DC	<b>1064010000</b>
VSSC4 MOV 240 VAC/DC	Surge protector with varistor 240 VAC/DC	<b>1064000000</b>



VSSC 4 MOV

### VSSC 4 GDT – Surge Protection with Spark Over Gap (GDT)

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 12.4mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC4 GDT 110 VAC/DC 20k	Surge protector with spark over gap 110 VAC/DC	<b>1064050000</b>
VSSC4 GDT 240 VAC/DC 20k	Surge protector with spark over gap 240 VAC/DC	<b>1064060000</b>

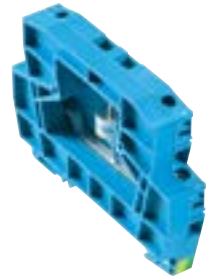


VSSC 4 GDT

### VSSC 4 GDT EX – Surge Protection with Spark Over Gap (GDT)

- 1-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 12.4mm
- Complies with IEC 62305 and ATEX applications
- Complies with IEC 61643-21:08 C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

Type	Description	Order Number
VSSC4 GDT55VUC 20kA Ex	Surge protector with spark over gap (GDT)	1064040000
AP VSSC4 LB	End Plate	1067240000



VSSC 4 GDT EX

### VSSC 4 TAZ – Surge Protection with Suppression Diode (TAZ)

- 1-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC4 TAZ 12 VDC	Surge protector with suppression diode 12 VDC	1064070000
VSSC4 TAZ 24 VAC/DC	Surge protector with suppression diode 24 VUC	1064080000
VSSC4 TAZ 48 VAC/DC	Surge protector with suppression diode 48 VUC	1064090000
VSSC4 TAZ 60 VAC/DC	Surge protector with suppression diode 60 VUC	1064110000



VSSC 4 TAZ

### VSSC 4 RC – Surge Protection with Resistors and Capacitors

- 2-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 12.4mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21:08
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC4 RC 24 VAC/DC	Surge protector with resistor and capacitor 24 VUC	1064120000
VSSC4 RC 240 VAC/DC	Surge protector with resistor and capacitor 240 VUC	1064130000



VSSC 4 RC

### Accessories

Type	Description	Order Number
AP VSSC4	End plate for VSSC 4 (1064120000/1064130000) surge protectors	1063120000

## VARITECTOR SSC6 – VSSC6 and VSSC6 EX

### VSSC 6 CL and CL FG – Surge Protection for Analog Signals

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-2-1: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 CL 12VDC 0.5A	Surge protector for analog signals 12 VDC	<b>1064150000</b>
VSSC6 CL FG 12 VDC 0.5A	Surge protector for analog signals 12 VDC with Floating Ground	<b>1064260000</b>
VSSC6 CL 24 VAC/DC 0.5A	Surge protector for analog signals 24 VUC	<b>1064170000</b>
VSSC6 CL FG 24 VAC/DC 0.5A	Surge protector for analog signals 24 VUC with Floating Ground	<b>1064270000</b>
VSSC6 CL 48 VAC/DC 0.5A	Surge protector for analog signals 48 VUC	<b>1064190000</b>
VSSC6 CL FG 48 VAC/DC 0.5A	Surge protector for analog signals 48 VUC with Floating Ground	<b>1064280000</b>
VSSC6 CL 60 VAC/DC 0.5A	Surge protector for analog signals 60 VUC	<b>1064210000</b>
VSSC6 CL FG 60 VAC/DC 0.5A	Surge protector for analog signals 60 VUC with Floating Ground	<b>1064290000</b>

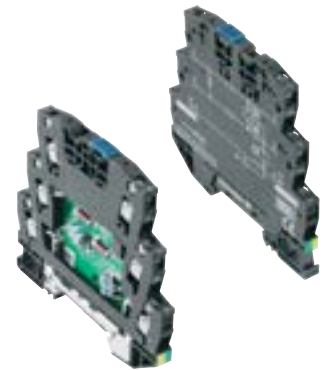


VSSC 6 CL and CL FG

### VSSC 6 SL FG and LD – Surge Protection for Binary Signals with Signal Display

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-2-1: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 SL LD 12VDC 0.5A	Surge protector for binary signals 12 VDC	<b>1064340000</b>
VSSC6 SL FG LD 12 VDC 0.5A	Surge protector for binary signals 12 VDC with Floating Ground	<b>1064420000</b>
VSSC6 SL LD 24 VAC/DC 0.5A	Surge protector for binary signals 24 VUC	<b>1064350000</b>
VSSC6 SL FG LD 24 VAC/DC 0.5A	Surge protector for binary signals 24 VUC with Floating Ground	<b>1064430000</b>
VSSC6 SL LD 48 VAC/DC 0.5A	Surge protector for binary signals 48 VUC	<b>1064360000</b>
VSSC6 SL FG LD 48 VAC/DC 0.5A	Surge protector for binary signals 48 VUC with Floating Ground	<b>1064440000</b>
VSSC6 SL LD 60 VAC/DC 0.5A	Surge protector for binary signals 60 VUC	<b>1064370000</b>
VSSC6 SL FG LD 60 VAC/DC 0.5A	Surge protector for binary signals 60 VUC with Floating Ground	<b>1064470000</b>



VSSC 6 SL FG and LD

### VSSC 6 TR CL and TR CL FG – Surge Protection for Floating Signals with Signal Display

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 TR SL LD 12VDC 0.5A	Surge protector for binary signals 12 VDC	<b>1064380000</b>
VSSC6 TR SL FG LD 12 VDC 0.5A	Surge protector for binary signals 12 VDC with Floating Ground	<b>1064490000</b>
VSSC6 TR SL LD 24 VAC/DC 0.5A	Surge protector for binary signals 24 VUC	<b>1064390000</b>
VSSC6 TR SL FG LD 24 VAC/DC 0.5A	Surge protector for binary signals 24 VUC with Floating Ground	<b>1064500000</b>
VSSC6 TR SL LD 48 VAC/DC 0.5A	Surge protector for binary signals 48 VUC	<b>1064400000</b>
VSSC6 TR SL FG LD 48 VAC/DC 0.5A	Surge protector for binary signals 48 VUC with Floating Ground	<b>1064510000</b>
VSSC6 TR SL LD 60 VAC/DC 0.5A	Surge protector for binary signals 60 VUC	<b>1064410000</b>
VSSC6 TR SL FG LD 60 VAC/DC 0.5A	Surge protector for binary signals 60 VUC with Floating Ground	<b>1064520000</b>



VSSC 6 TR CL and TR CL FG

### VSSC 6 TR CL FG EX – Surge Protection for Floating Earth, Intrinsically Safe Current Loops with Isolation Function

- 2-stage surge protection for intrinsically safe measurement and control signals
- Terminal block design
- Modular width 6.2mm
- Signals can be separated for measurement
- Complies with IEC 62305 and ATEX applications
- Can be used in Zones 2, 1, and 0
- Complies with IEC 61643-21:08 D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

Type	Description	Order Number
VSSC6 TRCLFG 24 VAC/DC Ex	Surge protector floating earth w/ isolation 24 VAC/DC	<b>1066490000</b>
AP VSSC LB	End Plate	<b>1067230000</b>



VSSC 6 TR CL FG EX



### VSSC 6 MOV – Surge Protection with Varistor

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-2-1: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 MOV 12VDC	Surge protector with varistor 12 VDC	1064530000
VSSC6 MOV 24VDC/AC	Surge protector with varistor 24 VAC/DC	1064540000
VSSC6 MOV 48 VAC/DC	Surge protector with varistor 48 VAC/DC	1064570000
VSSC6 MOV 60 VAC/DC	Surge protector with varistor 60 VAC/DC	1064600000
VSSC6 MOV 120 VAC/DC	Surge protector with varistor 120 VAC/DC	1064610000
VSSC6 MOV 150 VAC/DC	Surge protector with varistor 150 VAC/DC	1064620000
VSSC6 MOV 240 VAC/DC	Surge protector with varistor 240 VAC/DC	1064630000



VSSC 6 MOV

### VSSC 6 MOV – Surge Protection with Varistor and Signal Indication

- 1-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-2-1: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 TR LD MOV 12VDC	Surge protector w/varistor & indication 12 VDC	1064800000
VSSC6 TR LD MOV 24VDC/AC	Surge protector w/varistor & indication 24 VAC/DC	1064810000
VSSC6 TR LD MOV 48 VAC/DC	Surge protector w/varistor & indication 48 VAC/DC	1064820000
VSSC6 TR LD MOV 60 VAC/DC	Surge protector w/varistor & indication 60 VAC/DC	1064830000
VSSC6 TR LD MOV 120 VAC/DC	Surge protector w/varistor & indication 120 VAC/DC	1064840000
VSSC6 TR LD MOV 150 VAC/DC	Surge protector w/varistor & indication 150 VAC/DC	1064850000
VSSC6 TR LD MOV 240 VAC/DC	Surge protector w/varistor & indication 240 VAC/DC	1064860000



VSSC 6 TR LD MOV

### VSSC 6 RS485 – Surge Protection for RS232/RS485 Data Signals

- 2-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-2-1: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 RS485	Surge protector for RS485	1064980000
VSSC6 RS485 DP	Surge protector for RS485 DP	1065010000
VSSC6 RS232	Surge protector for RS232	1064990000

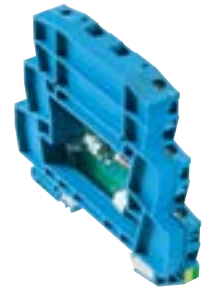


VSSC 6 RS485

### VSSC 6 RS485 PROFIBUS PA – Surge Protection for RS422/485 Intrinsically Safe Signals

- 2-stage surge protection for intrinsically safe PROFIBUS PA RS422/485 data interfaces
- Modular terminal block design width 6.2mm
- Complies with IEC 62305
- Can be used in Zones 2, 1, and 0
- Complies with IEC 61643-21:08 D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

Type	Description	Order Number
VSSC6 RS485 PA Ex	Surge protector RS422/485 PROFIBUS PA	1065020000
AP VSSC LB	End plate	1067230000



VSSC 6 RS485 PROFIBUS PA

### VSSC 6 RTD – Surge Protection for PT100 Signal Interfaces

- 1-stage surge protection for RS232/RS485 data interfaces
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: C1, C2
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 RTD	Surge protector for PT100 signals	1139710000



VSSC 6 RTD

### Accessories

Type	Description	Order Number
AP VSSC6	End plate for VSSC 6 (1063110000) surge protectors	1063110000

### VSSC 6 RTD EX – Surge Protection for PT100 Intrinsically Safe Signals

- 2-stage surge protection for intrinsically safe PT100/PT1000 signals
- Modular terminal block design width 12.4mm
- Complies with IEC 62305
- Complies with IEC 61643-21:08 D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

Type	Description	Order Number
VSSC6 RTD Ex	Surge protector for PT100/PT1000	1130670000
AP VSSC LB	End plate	1067230000



VSSC 6 RTD EX

### VSSC 6 TR CL and TR CL FG – Surge Protection for Floating Current Loops

- 2-stage surge protection for measurement and control signals
- Surge protection in a terminal block size device
- Modular width of only 6.2mm
- Can be used in compliance with installation standard IEC 62305
- Tested in accordance with IEC 61643-21: D1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20  $\mu$ s) and 2.5 kA (10/350  $\mu$ s) to PE
- cCSAus Class 1, Division 2 and Zone 2 approved
- -40°C ... +70°C operating temperature

Type	Description	Order Number
VSSC6 TR CL 12VDC 0.5A	Surge protector for floating loops 12 VDC	<b>1064220000</b>
VSSC6 TR CL FG 12 VDC 0.5A	Surge protector for floating loops 12 VDC with Floating Ground	<b>1064300000</b>
VSSC6 TR CL 24 VAC/DC 0.5A	Surge protector for floating loops 24 VUC	<b>1064230000</b>
VSSC6 TR CL FG 24 VAC/DC 0.5A	Surge protector for floating loops 24 VUC with Floating Ground	<b>1064310000</b>
VSSC6 TR CL 48 VAC/DC 0.5A	Surge protector for floating loops 48 VUC	<b>1064240000</b>
VSSC6 TR CL FG 48 VAC/DC 0.5A	Surge protector for floating loops 48 VUC with Floating Ground	<b>1064320000</b>
VSSC6 TR CL 60 VAC/DC 0.5A	Surge protector for floating loops 60 VUC	<b>1064250000</b>
VSSC6 TR CL FG 60 VAC/DC 0.5A	Surge protector for floating loops 60 VUC with Floating Ground	<b>1064330000</b>



VSSC 6 TR CL and TR CL FG

### VDATA CAT6

#### For Ethernet Data Lines and SCADA Infrastructure

- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

Type	Description	Order Number
VDATA CAT6	Terminal rail fixing, Surge protection, 1 A,	<b>1348590000</b>



VDATA CAT6

# Circuit Protection

Electronics



## UL 489 and UL 1077 DIN-Rail Miniature Circuit Breakers

Weidmüller offers a complete line of DIN-rail mountable circuit breakers in thermal magnetic, hydraulic magnetic, and electronic technologies. Used to distinguish between circuit overloads and short circuits, the complete line of miniature circuit breakers are engineered for either AC or DC, or both, in branch and supplementary circuit protection. For space savings, we offer various width sizes from 17.5mm to 8.2mm widths as listed or recognized per UL 489, UL 1077, and CSA 22.2 No. 5-02/235. These circuit breakers are proven solutions to protect your wires and cables from application or device malfunctions. All circuit breakers are available with an assortment of busbar, marking tags, and additional accessories to complement your needs.

## Circuit Protection

### Branch Rated, Supplementary & Electronic Circuit Protection

Weidmüller's DIN-rail mounted circuit breakers are available for use in applications where circuit protection must be able to distinguish between circuit overloads and short circuits. Each circuit breaker has the ability to be reset without the need to change components. All circuit breakers are available with an assortment of jumpers and marking tags.

#### Features and Benefits

- Miniature circuit breaker
- Numerous trip curves
- Overcurrent protection
- Thermal and hydraulic solutions
- Electronic protectors
- AC and DC protection



### Highly-Rated Branch and Supplementary Circuit Breakers Thermal Magnetic Protection

1-, 2- and 3-pole thermal-magnetic miniature circuit breakers (MCBs) in accordance with EN 60947-2, UL 1077 and UL 489 for DIN-rail mounting, with toggle actuation, visual status indication and high rupture capacity. A positively trip-free snap action mechanism ensures reliable switching behavior. A range of trip characteristics and add-on modules allow a great variety of applications.

#### Typical Applications

- Protection of cables, motors, generators and transformers, thyristors and silicon rectifiers.
- Protection of computers and their peripheral equipment, industrial process control systems, telecommunications equipment, power supplies.



**BR Series UL 489 version**



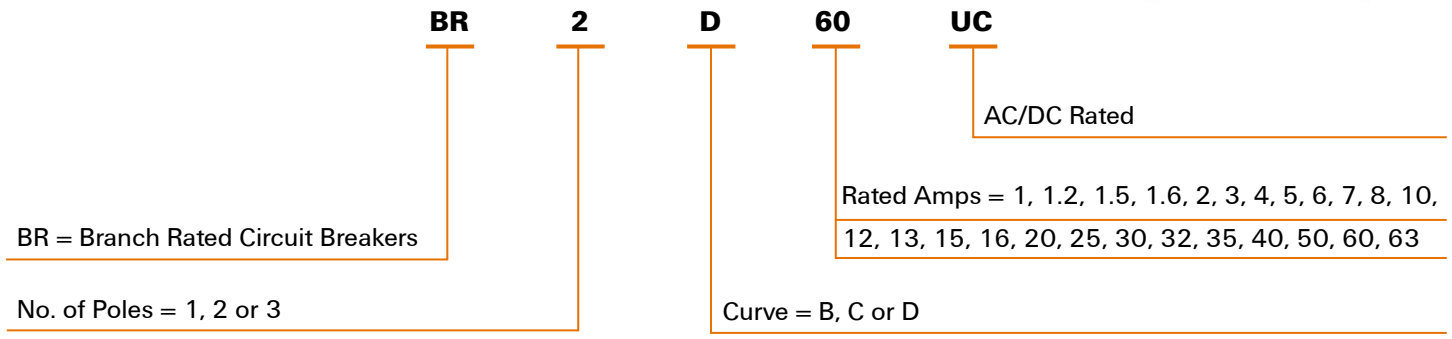
**SU Series IEC/EN60947-2 & UL 1077 version**



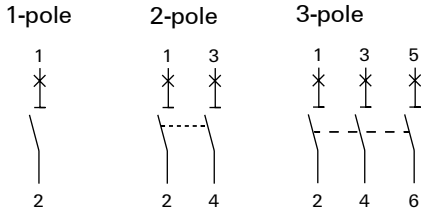
# UL 489 DIN-Rail Branch Circuit Breakers BRxxxUC

## BR Series Product Selection Part Number Nomenclature

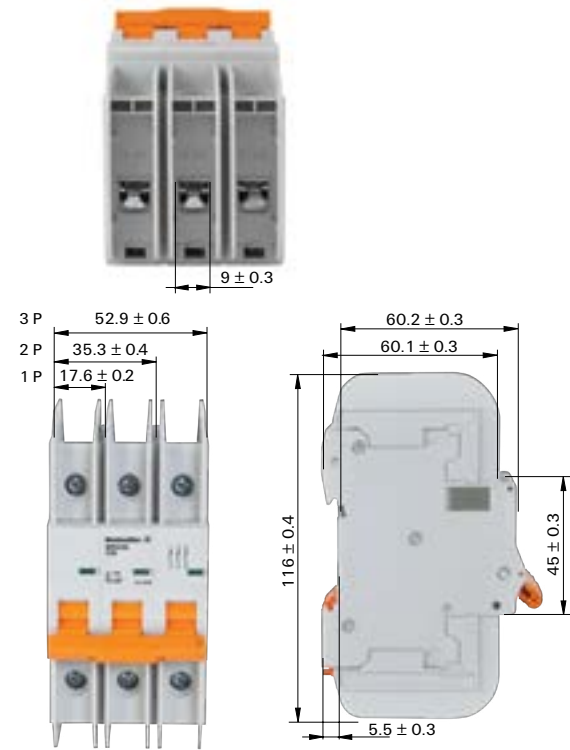
(Part Number found on the front of the breaker)



### Schematic Diagrams



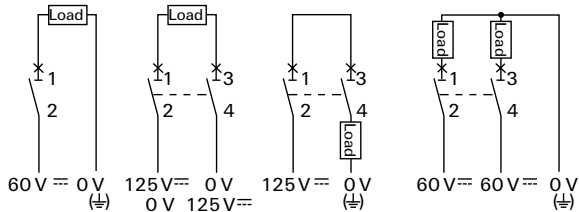
### Dimensions - UL 489 version



### DC Application

When using the BR/SUxxxUC in DC applications, polarity does not have to be observed. Maximum acceptable voltage between the conductors depends on the number of poles, circuitry and relevant standard / approval.

#### To UL 489:



All dimensions without tolerances are for reference only. Weidmüller reserves the right to change specifications at any time without notice in the interest of improved design, performance and cost effectiveness.

## BR Series Product Selection

### x = B, C, or D Curve

(See Curve Drawings on page 9 and 10)

Amps	1 Pole Order Number		2 Pole Order Number		3 Pole Order Number	
1	<b>BR1x1UC</b>	MCB 489 1P x 1A ACDC	<b>BR2x1UC</b>	MCB 489 2P x 1A ACDC	<b>BR3x1UC</b>	MCB 489 3P x 1A ACDC
1.2	<b>BR1x1.2UC</b>	MCB 489 1P x 1.2A ACDC	<b>BR2x1.2UC</b>	MCB 489 2P x 1.2A ACDC	<b>BR3x1.2UC</b>	MCB 489 3P x 1.2A ACDC
1.5	<b>BR1x1.5UC</b>	MCB 489 1P x 1.5A ACDC	<b>BR2x1.5UC</b>	MCB 489 2P x 1.5A ACDC	<b>BR3x1.5UC</b>	MCB 489 3P x 1.5A ACDC
1.6	<b>BR1x1.6UC</b>	MCB 489 1P x 1.6A ACDC	<b>BR2x1.6UC</b>	MCB 489 2P x 1.6A ACDC	<b>BR3x1.6UC</b>	MCB 489 3P x 1.6A ACDC
2	<b>BR1x2UC</b>	MCB 489 1P x 2A ACDC	<b>BR2x2UC</b>	MCB 489 2P x 2A ACDC	<b>BR3x2UC</b>	MCB 489 3P x 2A ACDC
3	<b>BR1x3UC</b>	MCB 489 1P x 3A ACDC	<b>BR2x3UC</b>	MCB 489 2P x 3A ACDC	<b>BR3x3UC</b>	MCB 489 3P x 3A ACDC
4	<b>BR1x4UC</b>	MCB 489 1P x 4A ACDC	<b>BR2x4UC</b>	MCB 489 2P x 4A ACDC	<b>BR3x4UC</b>	MCB 489 3P x 4A ACDC
5	<b>BR1x5UC</b>	MCB 489 1P x 5A ACDC	<b>BR2x5UC</b>	MCB 489 2P x 5A ACDC	<b>BR3x5UC</b>	MCB 489 3P x 5A ACDC
6	<b>BR1x6UC</b>	MCB 489 1P x 6A ACDC	<b>BR2x6UC</b>	MCB 489 2P x 6A ACDC	<b>BR3x6UC</b>	MCB 489 3P x 6A ACDC
7	<b>BR1x7UC</b>	MCB 489 1P x 7A ACDC	<b>BR2x7UC</b>	MCB 489 2P x 7A ACDC	<b>BR3x7UC</b>	MCB 489 3P x 7A ACDC
8	<b>BR1x8UC</b>	MCB 489 1P x 8A ACDC	<b>BR2x8UC</b>	MCB 489 2P x 8A ACDC	<b>BR3x8UC</b>	MCB 489 3P x 8A ACDC
10	<b>BR1x10UC</b>	MCB 489 1P x 10A ACDC	<b>BR2x10UC</b>	MCB 489 2P x 10A ACDC	<b>BR3x10UC</b>	MCB 489 3P x 10A ACDC
12	<b>BR1x12UC</b>	MCB 489 1P x 12A ACDC	<b>BR2x12UC</b>	MCB 489 2P x 12A ACDC	<b>BR3x12UC</b>	MCB 489 3P x 12A ACDC
13	<b>BR1x13UC</b>	MCB 489 1P x 13A ACDC	<b>BR2x13UC</b>	MCB 489 2P x 13A ACDC	<b>BR3x13UC</b>	MCB 489 3P x 13A ACDC
15	<b>BR1x15UC</b>	MCB 489 1P x 15A ACDC	<b>BR2x15UC</b>	MCB 489 2P x 15A ACDC	<b>BR3x15UC</b>	MCB 489 3P x 15A ACDC
16	<b>BR1x16UC</b>	MCB 489 1P x 16A ACDC	<b>BR2x16UC</b>	MCB 489 2P x 16A ACDC	<b>BR3x16UC</b>	MCB 489 3P x 16A ACDC
20	<b>BR1x20UC</b>	MCB 489 1P x 20A ACDC	<b>BR2x20UC</b>	MCB 489 2P x 20A ACDC	<b>BR3x20UC</b>	MCB 489 3P x 20A ACDC
25	<b>BR1x25UC</b>	MCB 489 1P x 25A ACDC	<b>BR2x25UC</b>	MCB 489 2P x 25A ACDC	<b>BR3x25UC</b>	MCB 489 3P x 25A ACDC
30	<b>BR1x30UC</b>	MCB 489 1P x 30A ACDC	<b>BR2x30UC</b>	MCB 489 2P x 30A ACDC	<b>BR3x30UC</b>	MCB 489 3P x 30A ACDC
32	<b>BR1x32UC</b>	MCB 489 1P x 32A ACDC	<b>BR2x32UC</b>	MCB 489 2P x 32A ACDC	<b>BR3x32UC</b>	MCB 489 3P x 32A ACDC
35	<b>BR1x35UC</b>	MCB 489 1P x 35A ACDC	<b>BR2x35UC</b>	MCB 489 2P x 35A ACDC	<b>BR3x35UC</b>	MCB 489 3P x 35A ACDC
40	<b>BR1x40UC</b>	MCB 489 1P x 40A ACDC	<b>BR2x40UC</b>	MCB 489 2P x 40A ACDC	<b>BR3x40UC</b>	MCB 489 3P x 40A ACDC
50	<b>BR1x50UC</b>	MCB 489 1P x 50A ACDC	<b>BR2x50UC</b>	MCB 489 2P x 50A ACDC	<b>BR3x50UC</b>	MCB 489 3P x 50A ACDC
60	<b>BR1x60UC</b>	MCB 489 1P x 60A ACDC	<b>BR2x60UC</b>	MCB 489 2P x 60A ACDC	<b>BR3x60UC</b>	MCB 489 3P x 60A ACDC
63	<b>BR1x63UC</b>	MCB 489 1P x 63A ACDC	<b>BR2x63UC</b>	MCB 489 2P x 63A ACDC	<b>BR3x63UC</b>	MCB 489 3P x 63A ACDC

Additional current rating versions are available. Please contact your Weidmüller Sales Representative.



## Accessories

### Busbar and Busbar Accessories

#### Busbars UL 489 – cuttable

Busbars for the connection of circuit breakers type BRxxxUC to UL 489. The busbars of 1 meter length can individually be cut to a suitable length for the application and isolated with end caps. Depending on the control cabinet design, the supply is by means of supply terminals without increasing the installation width or by means of a terminal block directly on the rail without increasing the installation height. Three busbar models are available for use with auxiliary contact modules with a width of 9 mm.

#### Ordering Data

No. of Poles	No. of Devices	No. of Pins	Description	Order Number
1-Pole	12	12	MCB BUS BAR UL489 1 POLE 12 PIN	<b>BRBB112</b>
	18	18	MCB BUS BAR UL489 1 POLE 18 PIN	<b>BRBB118</b>
	57	57	MCB BUS BAR UL489 1 POLE 57 PIN	<b>BRBB157</b>
2-Pole	6	12	MCB BUS BAR UL489 2 POLE 12 PIN	<b>BRBB212</b>
	9	18	MCB BUS BAR UL489 2 POLE 18 PIN	<b>BRBB218</b>
	28	56	MCB BUS BAR UL489 2 POLE 56 PIN	<b>BRBB256</b>
3-Pole	4	12	MCB BUS BAR UL489 3 POLE 12 PIN	<b>BRBB312</b>
	6	18	MCB BUS BAR UL489 3 POLE 18 PIN	<b>BRBB318</b>
	19	57	MCB BUS BAR UL489 3 POLE 57 PIN	<b>BRBB357</b>
*1-Pole with Auxiliary Module Spacing	37	37	MCB BUS BAR UL489 1 POLE 37 PIN AUX	<b>BRBB137A</b>
**2-Pole with Auxiliary Module Spacing	23	46	MCB BUS BAR UL489 2 POLE 46 PIN AUX	<b>BRBB246A</b>
***3-Pole with Auxiliary Module Spacing	16	48	MCB BUS BAR UL489 3 POLE 48 PIN AUX	<b>BRBB348A</b>

#### Accessories for Busbars UL 489

Description	Order Number
Feeder Terminal, UL 489, 115 A	<b>BRBBPWR35</b>
Bottom/Direct Feeder Terminal, UL 489, 115 A	<b>BRBBPWR50</b>
Endcap for UL 489 Cuttable Busbar	<b>BRBBECAP</b>
Protective Cap for UL 489 cuttable busbar, 3 caps per bar	<b>BRBBPCAP</b>
Lock-on, Lock-off Device	<b>LD10</b>



**Feeder Terminal**



**Bottom/Direct Feeder Terminal**



**Endcap**



**Protective Cap**



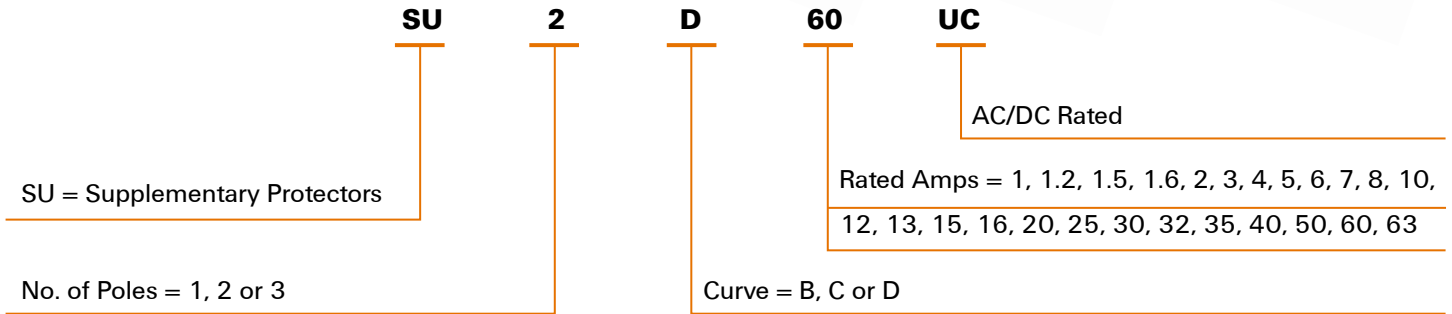
**Lock-on, Lock-off Device**

# UL 1077 DIN-Rail Supplementary Circuit Breakers

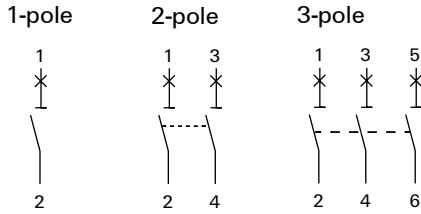
## SUxxxUC

### SU Series Product Selection Part Number Nomenclature

(Part Number found on the front of the breaker)



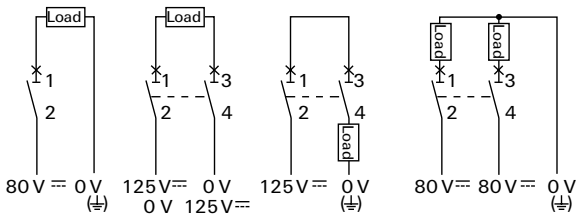
### Schematic Diagrams



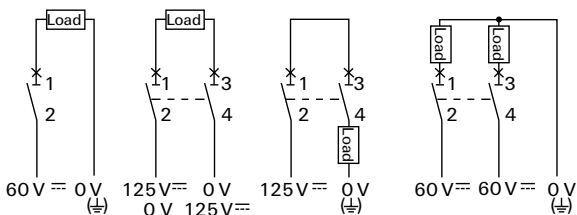
### DC Application

When using the BR/SUxxxUC in DC applications, polarity does not have to be observed. Maximum acceptable voltage between the conductors depends on the number of poles, circuitry and relevant standard / approval.

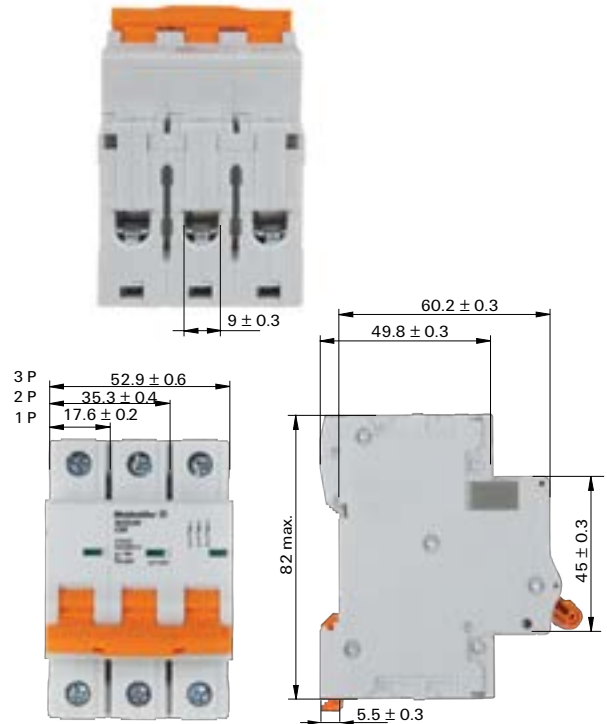
#### To IEC/EN 60947-2:



#### To UL 1077:



### Dimensions – IEC/EN 60947-2 / UL1077 version



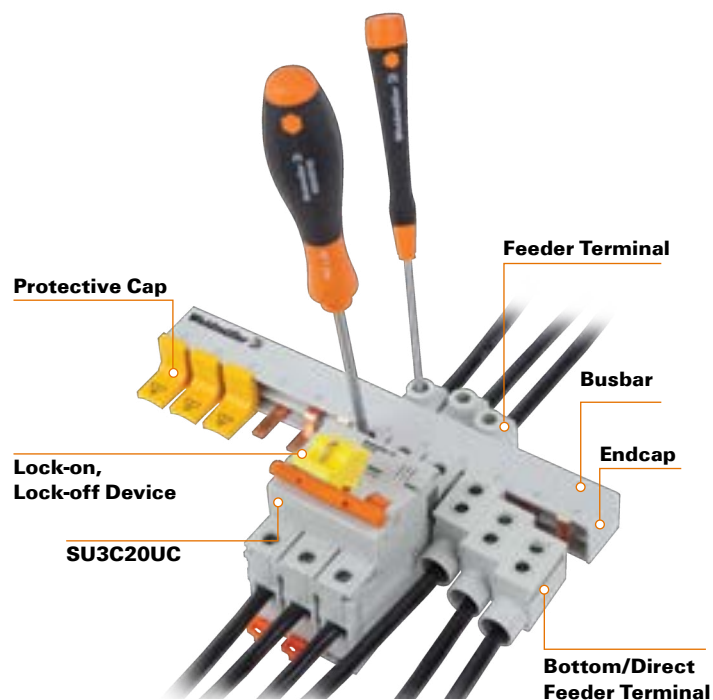
All dimensions without tolerances are for reference only. Weidmüller reserves the right to change specifications at any time without notice in the interest of improved design, performance and cost effectiveness.

## SU Series Product Selection

### x = B, C, or D Curve

(See Curve Drawings on page 9 and 10)

Amps	1 Pole Order Number	Description	2 Pole Order Number	Description	3 Pole Order Number	Description
1	<b>SU1x1UC</b>	MCB 1077 1P x 1A ACDC	<b>SU2x1UC</b>	MCB 1077 2P x 1A ACDC	<b>SU3x1UC</b>	MCB 1077 3P x 1A ACDC
1.2	<b>SU1x1.2UC</b>	MCB 1077 1P x 1.2A ACDC	<b>SU2x1.2UC</b>	MCB 1077 2P x 1.2A ACDC	<b>SU3x1.2UC</b>	MCB 1077 3P x 1.2A ACDC
1.5	<b>SU1x1.5UC</b>	MCB 1077 1P x 1.5A ACDC	<b>SU2x1.5UC</b>	MCB 1077 2P x 1.5A ACDC	<b>SU3x1.5UC</b>	MCB 1077 3P x 1.5A ACDC
1.6	<b>SU1x1.6UC</b>	MCB 1077 1P x 1.6A ACDC	<b>SU2x1.6UC</b>	MCB 1077 2P x 1.6A ACDC	<b>SU3x1.6UC</b>	MCB 1077 3P x 1.6A ACDC
2	<b>SU1x2UC</b>	MCB 1077 1P x 2A ACDC	<b>SU2x2UC</b>	MCB 1077 2P x 2A ACDC	<b>SU3x2UC</b>	MCB 1077 3P x 2A ACDC
3	<b>SU1x3UC</b>	MCB 1077 1P x 3A ACDC	<b>SU2x3UC</b>	MCB 1077 2P x 3A ACDC	<b>SU3x3UC</b>	MCB 1077 3P x 3A ACDC
4	<b>SU1x4UC</b>	MCB 1077 1P x 4A ACDC	<b>SU2x4UC</b>	MCB 1077 2P x 4A ACDC	<b>SU3x4UC</b>	MCB 1077 3P x 4A ACDC
5	<b>SU1x5UC</b>	MCB 1077 1P x 5A ACDC	<b>SU2x5UC</b>	MCB 1077 2P x 5A ACDC	<b>SU3x5UC</b>	MCB 1077 3P x 5A ACDC
6	<b>SU1x6UC</b>	MCB 1077 1P x 6A ACDC	<b>SU2x6UC</b>	MCB 1077 2P x 6A ACDC	<b>SU3x6UC</b>	MCB 1077 3P x 6A ACDC
7	<b>SU1x7UC</b>	MCB 1077 1P x 7A ACDC	<b>SU2x7UC</b>	MCB 1077 2P x 7A ACDC	<b>SU3x7UC</b>	MCB 1077 3P x 7A ACDC
8	<b>SU1x8UC</b>	MCB 1077 1P x 8A ACDC	<b>SU2x8UC</b>	MCB 1077 2P x 8A ACDC	<b>SU3x8UC</b>	MCB 1077 3P x 8A ACDC
10	<b>SU1x10UC</b>	MCB 1077 1P x 10A ACDC	<b>SU2x10UC</b>	MCB 1077 2P x 10A ACDC	<b>SU3x10UC</b>	MCB 1077 3P x 10A ACDC
12	<b>SU1x12UC</b>	MCB 1077 1P x 12A ACDC	<b>SU2x12UC</b>	MCB 1077 2P x 12A ACDC	<b>SU3x12UC</b>	MCB 1077 3P x 12A ACDC
13	<b>SU1x13UC</b>	MCB 1077 1P x 13A ACDC	<b>SU2x13UC</b>	MCB 1077 2P x 13A ACDC	<b>SU3x13UC</b>	MCB 1077 3P x 13A ACDC
15	<b>SU1x15UC</b>	MCB 1077 1P x 15A ACDC	<b>SU2x15UC</b>	MCB 1077 2P x 15A ACDC	<b>SU3x15UC</b>	MCB 1077 3P x 15A ACDC
16	<b>SU1x16UC</b>	MCB 1077 1P x 16A ACDC	<b>SU2x16UC</b>	MCB 1077 2P x 16A ACDC	<b>SU3x16UC</b>	MCB 1077 3P x 16A ACDC
20	<b>SU1x20UC</b>	MCB 1077 1P x 20A ACDC	<b>SU2x20UC</b>	MCB 1077 2P x 20A ACDC	<b>SU3x20UC</b>	MCB 1077 3P x 20A ACDC
25	<b>SU1x25UC</b>	MCB 1077 1P x 25A ACDC	<b>SU2x25UC</b>	MCB 1077 2P x 25A ACDC	<b>SU3x25UC</b>	MCB 1077 3P x 25A ACDC
30	<b>SU1x30UC</b>	MCB 1077 1P x 30A ACDC	<b>SU2x30UC</b>	MCB 1077 2P x 30A ACDC	<b>SU3x30UC</b>	MCB 1077 3P x 30A ACDC
32	<b>SU1x32UC</b>	MCB 1077 1P x 32A ACDC	<b>SU2x32UC</b>	MCB 1077 2P x 32A ACDC	<b>SU3x32UC</b>	MCB 1077 3P x 32A ACDC
35	<b>SU1x35UC</b>	MCB 1077 1P x 35A ACDC	<b>SU2x35UC</b>	MCB 1077 2P x 35A ACDC	<b>SU3x35UC</b>	MCB 1077 3P x 35A ACDC
40	<b>SU1x40UC</b>	MCB 1077 1P x 40A ACDC	<b>SU2x40UC</b>	MCB 1077 2P x 40A ACDC	<b>SU3x40UC</b>	MCB 1077 3P x 40A ACDC
50	<b>SU1x50UC</b>	MCB 1077 1P x 50A ACDC	<b>SU2x50UC</b>	MCB 1077 2P x 50A ACDC	<b>SU3x50UC</b>	MCB 1077 3P x 50A ACDC
60	<b>SU1x60UC</b>	MCB 1077 1P x 60A ACDC	<b>SU2x60UC</b>	MCB 1077 2P x 60A ACDC	<b>SU3x60UC</b>	MCB 1077 3P x 60A ACDC
63	<b>SU1x63UC</b>	MCB 1077 1P x 63A ACDC	<b>SU2x63UC</b>	MCB 1077 2P x 63A ACDC	<b>SU3x63UC</b>	MCB 1077 3P x 63A ACDC





## Supplementary Breaker Accessories

### Busbars UL 1077 – cuttable

Busbars for the connection of circuit breakers type SUxxxUC to UL 1077. The busbars of 1 meter length can individually be cut to a suitable length for the application and isolated with end caps. Depending on the control cabinet design, the supply is by means of supply terminals without increasing the installation width or by means of a terminal block directly on the rail without increasing the installation height. Three busbar models are available for use with auxiliary contact modules with a width of 9 mm.



#### Ordering Data

No. of Poles	No. of Devices	No. of Pins	Description	Order Number
1-Pole	12	12	MCB BUS BAR UL1077 1 POLE 12 PIN	<b>SB112</b>
	18	18	MCB BUS BAR UL1077 1 POLE 18 PIN	<b>SB118</b>
	57	57	MCB BUS BAR UL1077 1 POLE 57 PIN	<b>SB157</b>
2-Pole	6	12	MCB BUS BAR UL1077 2 POLE 12 PIN	<b>SB212</b>
	9	18	MCB BUS BAR UL1077 2 POLE 18 PIN	<b>SB218</b>
	28	56	MCB BUS BAR UL1077 2 POLE 56 PIN	<b>SB256</b>
3-Pole	4	12	MCB BUS BAR UL1077 3 POLE 12 PIN	<b>SB312</b>
	6	18	MCB BUS BAR UL1077 3 POLE 18 PIN	<b>SB318</b>
	19	57	MCB BUS BAR UL1077 3 POLE 57 PIN	<b>SB357</b>
1-Pole with Auxiliary Module Spacing	37	37	MCB BUS BAR UL1077 1 POLE 37 PIN AUX	<b>SB1A37</b>
2-Pole with Auxiliary Module Spacing	23	46	MCB BUS BAR UL1077 2 POLE 46 PIN AUX	<b>SB2A46</b>
3-Pole with Auxiliary Module Spacing	16	48	MCB BUS BAR UL1077 3 POLE 48 PIN AUX	<b>SB3A48</b>



**1P Top Feed Terminal**



**2/3P Top Feed Terminal**



**Bottom/Direct Feeder Terminal**

#### Top Feed Terminal

Description	Order Number
MCB BUS BAR UL1077 1P TERM TOP FEED	<b>SPF351P</b>
MCB BUS BAR UL1077 2/3P TERM TOP FEED	<b>SPF35</b>

#### Bottom/Direct Feeder Terminal

Description	Order Number
MCB BUS BAR UL1077 1/2/3P TERM BOT FEED	<b>SPF50</b>

#### Endcap

Description	Order Number
MCB BUS BAR UL1077 1P END CAP	<b>SEC1P</b>
MCB BUS BAR UL1077 2/3P END CAP	<b>SECMP</b>



**Endcap**



**Protective Cap**

#### Protective Cap

Description	Order Number
MCB BUS BAR UL1077 BUS CAP YEL (5 caps)	<b>STPC</b>

#### Lock-on, Lock-off Device

Description	Order Number
Lock-on, Lock-off Device	<b>LD10</b>



**Lock-on, Lock-off Device**

## 9926 Series Branch Circuit Breakers and Supplementary Protectors



Weidmüller's range of industrial, DIN-rail mounted circuit breakers are part of our broad electronics portfolio, which provides isolation and protection solutions for automation control systems. Compared with traditional fused protection, these compact circuit breakers can be closely tailored to the application, in order to simplify control and minimize equipment downtime in the event of a fault.

Product ratings and mechanical construction are designed to provide the high levels of reliability expected from automation and control equipment installed on capital plant, and specifications conform to recognized international standards.

### Hydraulic Magnetic Branch Protection QL-9926 Series Circuit Breakers AC Version

#### Features and Benefits

- AC Circuit Breaker
- Hydraulic-Magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two and three pole (UL). One, two, three pole and 1+N, 3+N (VDE).
- VDE and CCC approved, CE certified
- UL listed (CSA / UL 489)
- Ratings 0.1 to 25 A
- Optional Auxiliary Switch / Trip Alarm - factory fitted (6.5 mm wide)
- Optional Shunt Trip (no approvals)
- Wide range of time delays and operating currents
- Precision tripping characteristics
- Ultra compact – 13 mm wide module
- Trip indication with mid-trip handle
- Reset immediately after overload
- DIN mount product in grey shells
- Dual mount product in black shells
- Current limiting capability
- Ring terminal ready (terminal screw is removable)
- Suitable to use for electrical isolation

#### Overview of 9926 Series

##### Model QL

- AC Branch-rated circuit breakers
- UL489 Listed, CSA, VDE, CE conformity
- 1, 2 and 3 pole units (NEW)
- Ratings up to 240V/25A

##### Model QY

- DC Branch-rated circuit breakers
- UL489A Listed, VDE, CE conformity
- 1 and 2 pole units (NEW)
- Ratings up to 125V/60A

##### Model QZ

- AC Supplementary circuit breakers
- UL1077 Recognized, VDE, CE conformity, CSA
- 1, 2 and 3 pole units
- Ratings up to 277/480V/60A

##### Model GFCI

- AC Supplementary circuit breakers
- UL1077 and UL1053 Recognized, CE conformity
- 1 pole (+N) units
- Ratings up to 240V/63A

#### 9926 Series Features

- For industrial AC and DC installations
- Models either for branch applications cULus (UL489/ CSA C22.2 No 5.02) approvals or supplemental cURus/ UL1077 approved /CSA C22.2 No. 235.
- Single and multi-pole models, with auxiliary/trip options
- Trip point unaffected by ambient temperature changes
- Variety of trip characteristics available, to suit equipment protected
- Narrow width on mounting rail – 13mm per pole
- GFCI models with standard ratings up to 240V/50A
- Full set of approved accessories, such as busbars, power lugs, lock-out handles



Dual mount (black body)

## Long Code

## Example Code: QL-AT-3(13)-D-KM-15A—Z

Group	1	2	3	4	5	6	7	8	9	10	11	12
Requirement	QL Frame	Switch / Neutral	Auxiliary + Trip Alarm	Triple pole	13 mm module width	DIN Rail	Medium delay curve KM	Current Rating 15 A	Future use	No Shunt Trip	Future use	Parallel bridged (by customer)
<b>Long Code</b>	<b>QL</b>	<b>-</b>	<b>AT</b>	<b>3</b>	<b>(13)</b>	<b>D</b>	<b>KM</b>	<b>15A</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Z</b>

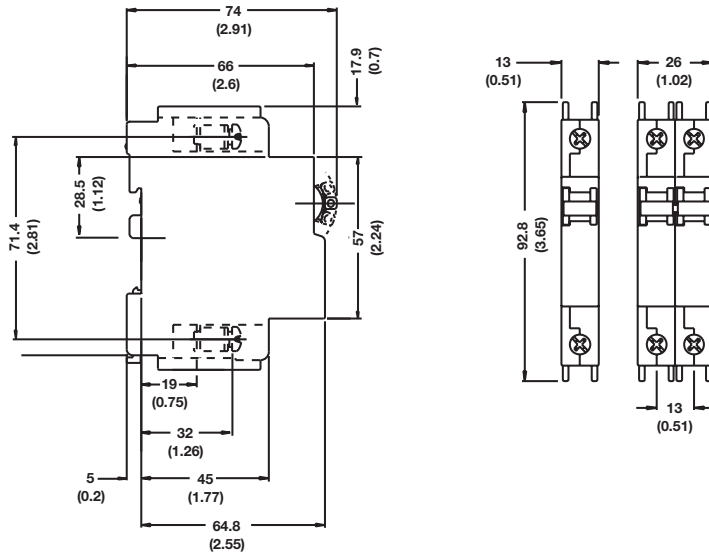
Group 1: Frame Type	Code	Description	Comments	
	QL	13 mm wide Miniature Circuit Breaker	UL 489, IEC / EN 60947-2, VDE, CE, CCC	
Group 2: Switch/Neutral	Code	Description	Comments	
	-	Not applicable	Overload poles do not have any further coding	
	N	Neutral		
Group 3: Auxiliary	Code	Description	Comments	
	-	Not applicable	Use this code if no Auxiliary used	
	A	Auxiliary Switch (1 x Aux in 1 module)	6.5 mm module fitted on right-hand side (DIN & Dual Mount)	
	T	Trip Alarm (1 x Trip Alarm in 1 module)	6.5 mm module fitted on right-hand side (Dual Mount only)	
	AT	Auxiliary Switch + Trip Alarm combo (combined in 1 module)	6.5 mm module fitted on right-hand side (Dual Mount only)	
Group 4: No of Poles	Code	Description	Comments	
	1	Single pole		
	2	Double pole	2 pole or 1+N	
	3	Triple pole		
	4	Four pole	3+N only	
Group 5: Module Width	Code	Description	Comments	
	(13)	13 mm module width	13 mm per pole	
Group 6: Mounting	Code	Description	Comments	
	D	DIN rail mount - 45 mm Escutcheon, grey body	DIN mount supplied in grey only	
	DM	Dual mount - 57 mm Escutcheon, black body	Dual mount supplied in black only	
Group 7: Time Delays	Code	Description	Instantaneous Trip Point (x In)	Comments
	1	Long time delay, high instantaneous trip	10 - 20	Orange handle
	3	Short time delay	3 - 5	White handle
	9	Long time delay	7 - 12	White handle
	KM	Medium time delay	6 - 12	White handle
	OP	Instantaneous	None	White handle
Group 8: Current Ratings	Code / Description		Comments	
	0.1, 0.2, 0.3, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25 A		Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.	
Group 9:	Code	For future use (-)		
Group 10: Shunt Trip (not certified, only offered as special order)	Code	Description	Comments	
	-	Not applicable	Use this code if no Shunt Trip is used	
	VO	100 - 480 V AC	Fly leads (approximately 60 mm long)	
	VS	100 - 480 V AC	Internally connected	
Other voltages are available as special orders. Check availability.				
Group 11:	Code	For future use (-)		
Group 12: Special Termination	Code	Description	Comments	
	-	Not applicable	Use this code if no special terminations are used	
	P	Plug-in		
	Z	Bridged unit (bridge to be fitted by customer)		
	ZL	Bridged unit (factory fitted)		

# 9926 Series Branch Circuit Breakers (AC)

## Circuit Breakers Hydraulic Magnetic Type

- 1, 2 and 3 pole versions
- 120/240 VAC, 50/60 Hz
- Up to 25A
- Just 13 mm wide, per pole
- Mounts on 35mm DIN-rail
- cULus listed according to UL489, CSA C22.2 No. 5.02, CE, VDE

### Dimension Diagrams in mm (in.)



Technical Data	
Voltage	120/240 VAC, 50/0Hz
Current minimum	0.5A
Current maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
*0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb



\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

9926 Series  
Single Pole



9926 Series  
Double Pole



9926 Series  
Triple Pole



Type: Single Pole (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
0.5	QL-1-13-DM-KM-0.5	9926251000
1	QL-1-13-DM-KM-01	9926251001
2	QL-1-13-DM-KM-02	9926251002
3	QL-1-13-DM-KM-03	9926251003
4	QL-1-13-DM-KM-04	9926251004
5	QL-1-13-DM-KM-05	9926251005
6	QL-1-13-DM-KM-06	9926251006
7	QL-1-13-DM-KM-07	9926251007
8	QL-1-13-DM-KM-08	9926251008
10	QL-1-13-DM-KM-10	9926251010
13	QL-1-13-DM-KM-13	9926251013
15	QL-1-13-DM-KM-15	9926251015
16	QL-1-13-DM-KM-16	9926251016
20	QL-1-13-DM-KM-20	9926251020
25	QL-1-13-DM-KM-25	9926251025

Type: Double Pole (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
0.5	QL-2-13-DM-KM-0.5	9926252000
1	QL-2-13-DM-KM-01	9926252001
2	QL-2-13-DM-KM-02	9926252002
3	QL-2-13-DM-KM-03	9926252003
4	QL-2-13-DM-KM-04	9926252004
5	QL-2-13-DM-KM-05	9926252005
6	QL-2-13-DM-KM-06	9926252006
7	QL-2-13-DM-KM-07	9926252007
8	QL-2-13-DM-KM-08	9926252008
10	QL-2-13-DM-KM-10	9926252010
13	QL-2-13-DM-KM-13	9926252013
15	QL-2-13-DM-KM-15	9926252015
16	QL-2-13-DM-KM-16	9926252016
20	QL-2-13-DM-KM-20	9926252020
25	QL-2-13-DM-KM-25	9926252025

Type: Triple Pole (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-3(13)-DM-KM-1A	9926253001
2	QL-3(13)-DM-KM-2A	9926253002
5	QL-3(13)-DM-KM-5A	9926253005
10	QL-3(13)-DM-KM-10A	9926253010
15	QL-3(13)-DM-KM-15A	9926253015
20	QL-3(13)-DM-KM-20A	9926253020
25	QL-3(13)-DM-KM-25A	9926253025

# 9926 Series Branch Circuit Breakers (AC)

**Circuit Breakers with Auxiliary switch, Trip alarm, Combination of both**

- AC voltages (120/240V)
- 1, 2 and 3 pole versions
- cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE
- Factory fitted auxiliary or trip alarm
- Compact 6.5mm width, per pole
- Attached to right-hand side of circuit breaker

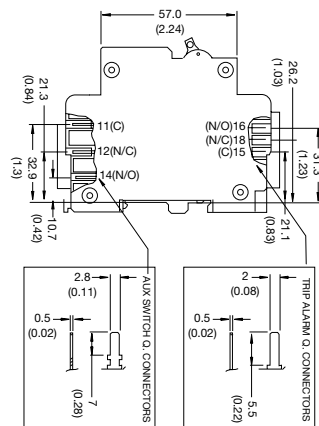
Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

**Approval**  
 cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE

†UL 489 listed  
 (5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)  
 IEC 60947-5-1 Approved  
 (5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.  
 The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The order number for adhesive SchS2 is 172060000.

**Dimension Diagrams in mm (in.)**



**9926 Series Single Pole w/ Auxiliary Contact'**



Type: Single Pole Trip (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-A-1-13-DM-KM-1	9926261001
2	QL-A-1-13-DM-KM-2	9926261002
5	QL-A-1-13-DM-KM-5	9926261005
10	QL-A-1-13-DM-KM-10	9926261010
15	QL-A-1-13-DM-KM-15	9926261015
20	QL-A-1-13-DM-KM-20	9926261020
25	QL-A-1-13-DM-KM-25	9926261025

**9926 Series Double Pole w/ Auxiliary Contact'**



Type: Double Pole Aux (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-A-2-13-DM-KM-1	9926262001
2	QL-A-2-13-DM-KM-2	9926262002
5	QL-A-2-13-DM-KM-5	9926262005
10	QL-A-2-13-DM-KM-10	9926262010
15	QL-A-2-13-DM-KM-15	9926262015
20	QL-A-2-13-DM-KM-20	9926262020
25	QL-A-2-13-DM-KM-25	9926262025

**9926 Series Triple Pole w/ Auxiliary Contact'**



Type: Triple Pole Aux (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-A-3(13)-DM-KM-1A	9926263001
2	QL-A-3-13-DM-KM-2A	9926263002
5	QL-A-3-13-DM-KM-5A	9926263005
10	QL-A-3-13-DM-KM-10A	9926263010
15	QL-A-3-13-DM-KM-15A	9926263015
20	QL-A-3-13-DM-KM-20A	9926263020
25	QL-A-3-13-DM-KM-25A	9926263025

**9926 Series Single Pole Trip (Alarm Contact)**



Type: Single Pole Trip (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-T-1-13-DM-KM-1	9926271001
2	QL-T-1-13-DM-KM-2	9926271002
5	QL-T-1-13-DM-KM-5	9926271005
10	QL-T-1-13-DM-KM-10	9926271010
15	QL-T-1-13-DM-KM-15	9926271015
20	QL-T-1-13-DM-KM-20	9926271020
25	QL-T-1-13-DM-KM-25	9926271025

**9926 Series Double Pole Trip (Alarm Contact)**



Type: Double Pole Trip (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-T-2-13-DM-KM-1	9926272001
2	QL-T-2-13-DM-KM-2	9926272002
5	QL-T-2-13-DM-KM-5	9926272005
10	QL-T-2-13-DM-KM-10	9926272010
15	QL-T-2-13-DM-KM-15	9926272015
20	QL-T-2-13-DM-KM-20	9926272020
25	QL-T-2-13-DM-KM-25	9926272025

**9926 Series Triple Pole Trip (Alarm Contact)**



Type: Triple Pole Trip (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-T-3(13)-DM-KM-1A	9926273001
2	QL-T-3(13)-DM-KM-2A	9926273002
5	QL-T-3(13)-DM-KM-5A	9926273005
10	QL-T-3(13)-DM-KM-10A	9926273010
15	QL-T-3(13)-DM-KM-15A	9926273015
20	QL-T-3(13)-DM-KM-20A	9926273020
25	QL-T-3(13)-DM-KM-25A	9926273025

**9926 Series Single Pole Combination (Auxiliary & Alarm Contact)'**



Type: Triple Pole (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-AT-1-13-DM-KM-1	9926281001
2	QL-AT-1-13-DM-KM-2	9926281002
5	QL-AT-1-13-DM-KM-5	9926281005
10	QL-AT-1-13-DM-KM-10	9926281010
15	QL-AT-1-13-DM-KM-15	9926281015
20	QL-AT-1-13-DM-KM-20	9926281020
25	QL-AT-1-13-DM-KM-25	9926281025

**9926 Series Double Pole Combination (Auxiliary & Alarm Contact)'**



Type: Double Pole Combo (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-AT-2-13-DM-KM-1	9926282001
2	QL-AT-2-13-DM-KM-2	9926282002
5	QL-AT-2-13-DM-KM-5	9926282005
10	QL-AT-2-13-DM-KM-10	9926282010
15	QL-AT-2-13-DM-KM-15	9926282015
20	QL-AT-2-13-DM-KM-20	9926282020
25	QL-AT-2-13-DM-KM-25	9926282025

**9926 Series Triple Pole Combination (Auxiliary & Alarm Contact)'**

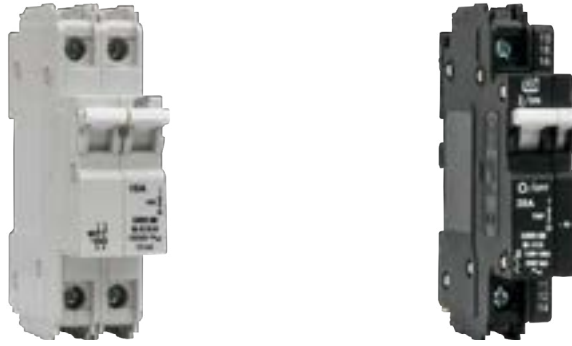


Type: Triple Pole Combo (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-AT-3(13)-DM-KM-1A	9926283001
2	QL-AT-3(13)-DM-KM-2A	9926283002
5	QL-AT-3(13)-DM-KM-5A	9926283005
10	QL-AT-3(13)-DM-KM-10A	9926283010
15	QL-AT-3(13)-DM-KM-15A	9926283015
20	QL-AT-3(13)-DM-KM-20A	9926283020
25	QL-AT-3(13)-DM-KM-25A	9926283025



**Common Applications:**

- AC branch circuit protection (UL 489, IEC / EN 60847-2)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Power conditioning equipment

**9926 (QL) Series Miniature Circuit Breaker Technical Data**

Approvals	IEC / EN 60947-2, VDE				
Number of Poles	1	2 (1+N)	2	3	4(3+N)
Operating Voltages	240 V AC		415 V AC		
Minimum Current Rating			0.1 A		
Maximum Current Rating			25 A		
Interrupting Capacity			6 kA		
Operating Temperature Range			-40°C to +85°C		
Mounting Options	DIN Rail, Dual mounting (DIN & Mini), surface mounting clip				
Time Delay Curves	1, 3, 9, KM, OP				

Approvals	UL 489			
Number of Poles	1	1	2	3
Operating Voltages	120 V AC	240 V AC	120 / 240 V AC	240 V AC
Minimum Current Rating	0.1 A			
Maximum Current Rating	25 A	20 A	25 A	25 A
Interrupting Capacity	10 kA	5 kA	10 kA	5 kA
Operating Temperature Range	-40°C to +85°C			
Mounting Options	DIN Rail, Dual mounting (DIN & Mini), surface mounting clip			
Time Delay Curves	1, 3, 9, KM, OP			

Approvals	CCC		
Number of Poles	1	2 (1+N)	2
Operating Voltages	240 V AC	240 V AC	240 V AC
Minimum Current Rating	0.1 A		
Maximum Current Rating	25 A	25 A	25 A
Interrupting Capacity	6 kA		
Operating Temperature Range	-40°C to +85°C		
Mounting Options	DIN Rail, Dual mounting (DIN & Mini), surface mounting clip		
Time Delay Curves	1, 3, 9, KM, OP		

Breaker QL	Wire Size mm <sup>2</sup> (IEC)	Wire Gauge (UL)	Torque (IEC)	Torque (UL)	Comments
1 Pole & 2 Pole	0.75 - 35 mm <sup>2</sup>	18 - 2 - AWG	2.5 Nm	20 in-lb	Pozidriv #2 Combi head

## QY-9926 Series Circuit Breakers DC Version

### Features and Benefits

- DC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Two Poles (Four Poles Parallel)
- VDE, CE and CCC approved, UL Listed (UL 489A)
- Ratings up to 200A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Optional Shunt Trip
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload



QY Series

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	UL 489A, IEC / EN 60947-2, VDE, CE	UL 489A	CCC
Number of Poles	1,2 2,3,4p 2p series	4p series	1p parallel 2p parallel 3p parallel
Operating Voltages	80VDC, 125VDC, 250VDC	600VDC	80 VDC
Minimum Current Rating	0.1A	0.5A	0.1A
Maximum Current Rating	200A	20A	200A
Interrupting Capacity	10kA	2.5kA	10kA
Operating Temperature Range	-40°C - +65°C		
Mounting Options	DIN Rail, Dual Mounting (DIN & Mini), Surface mounting clip, Plug-in terminal		
Tripping Curves	1, 9, U2, U3, OP		

Breaker QY	Wire Size UL	Wire Size mm <sup>2</sup>	Torque	Comments
1 Pole & 2 Pole	2 - AWG	35mm <sup>2</sup>	28 in-lb	Pozi driv #2 Screw head
	14-6 – AWG	2.5 -16mm <sup>2</sup>	20 in-lb	
	16 – AWG	1.5mm <sup>2</sup>		
	18 – AWG	0.75mm <sup>2</sup>		
2 Pole Parallel		50mm <sup>2</sup>	28 in-lb	Bridge Terminal
3 Pole Parallel	14 - 1/0 – AWG	70mm <sup>2</sup>	50 in-lb	Bridge Terminal
4 Pole Parallel		95mm <sup>2</sup>	50 in-lb	Bridge Terminal

### Accessories for QL and QY series

Type	Order Number
Bus-bar (1 pole, insulated, 1 m)	<b>67101904</b>
Bus-bar (2 pole, insulated, 1 m)	<b>67101972</b>
Bus-bar end cap, 1 pole	<b>67101973</b>
Bus-bar end cap, 2 pole	<b>67101974</b>
Power lug, straight (14 mm)	<b>67101960</b>
Power lug, 90° (14 mm)	<b>67101961</b>
Power lug, straight (32 mm)	<b>67102480</b>
Power lug, 90° (32 mm)	<b>67102479</b>
Lock-out handle	<b>67101913</b>

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit).

The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

# 9926 Series Branch Circuit Breakers - DC Version

## Circuit Breakers

### Hydraulic Magnetic Type

- Single and double pole versions
- U2 trip curve for general purpose applications
- 80 and 125 VDC
- Up to 60A
- Just 13 mm wide, per pole
- Mounts on 35 mm DIN-rail
- UL 489A listed and VDE approval

Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	60A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
1-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval	
UL listed to UL489	

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **172060000**.

## Accessories

Type	Order Number
Bus-bar (1 pole, insulated, 1 m)	<b>67101904</b>
Bus-bar end cap, 1 pole	<b>67101973</b>
Power lug, straight (14 mm)	<b>67101960</b>
Power lug, 90° (14 mm)	<b>67101961</b>
Power lug, straight (32 mm)	<b>67102480</b>
Power lug, 90° (32 mm)	<b>67102479</b>
Lock-out handle	<b>67101913</b>

9926 Series  
Single Pole  
(80 VDC)



Type: Single Pole (80 VDC)		
Current Ratings (amps)	Description	Order Number
0.5	QY-1-13-DM-U2-0.5	<b>9926251900</b>
1	QY-1-13-DM-U2-01	<b>9926251901</b>
2	QY-1-13-DM-U2-02	<b>9926251902</b>
3	QY-1-13-DM-U2-03	<b>9926251903</b>
4	QY-1-13-DM-U2-04	<b>9926251904</b>
5	QY-1-13-DM-U2-05	<b>9926251905</b>
10	QY-1-13-DM-U2-10	<b>9926251910</b>
15	QY-1-13-DM-U2-15	<b>9926251915</b>
20	QY-1-13-DM-U2-20	<b>9926251920</b>
25	QY-1-13-DM-U2-25	<b>9926251925</b>
30	QY-1-13-DM-U2-30	<b>9926251930</b>
35	QY-1-13-DM-U2-35	<b>9926251935</b>
40	QY-1-13-DM-U2-40	<b>9926251940</b>
45	QY-1-13-DM-U2-45	<b>9926251945</b>
50	QY-1-13-DM-U2-50	<b>9926251950</b>
60	QY-1-13-DM-U2-60	<b>9926251960</b>
80	QT-1(26)-DM-2-80-BO-80V-10kA (80A)	<b>9926302080</b>
100	QT-1(26)-DM-2-100-BO-80V-10kA	<b>9926302100</b>
125	QT-1(26)-DM-2-125-BO-80V-10kA (125A)	<b>9926302125</b>

9926 Series  
Double Pole  
(80 VDC)



Type: Double Pole (80 VDC)		
Current Ratings (amps)	Description	Order Number
5	QY-2-13-DM-U2-5A	<b>9926252905</b>
10	QY-2-13-DM-U2-10A	<b>9926252910</b>
15	QY-2-13-DM-U2-15A	<b>9926252915</b>
16	QY-2-13-DM-U2-16A	<b>9926252916</b>
20	QY-2-13-DM-U2-20A	<b>9926252920</b>
40	QY-2-13-DM-U2-40A	<b>9926252940</b>

9926 Series  
Single Pole  
(125 VDC)



Type: Single Pole (125 VDC)		
Current Ratings (amps)	Description	Order Number
1	QY-1-13-DM-U2-01-B1	<b>9926251801</b>
2	QY-1-13-DM-U2-02-B1	<b>9926251802</b>
3	QY-1-13-DM-U2-03-B1	<b>9926251803</b>
4	QY-1-13-DM-U2-04-B1	<b>9926251804</b>
5	QY-1-13-DM-U2-05-B1	<b>9926251805</b>
10	QY-1-13-DM-U2-10-B1	<b>9926251810</b>
15	QY-1-13-DM-U2-15-B1	<b>9926251815</b>
20	QY-1-13-DM-U2-20-B1	<b>9926251820</b>
25	QY-1-13-DM-U2-25-B1	<b>9926251825</b>
30	QY-1-13-DM-U2-30-B1	<b>9926251830</b>
35	QY-1-13-DM-U2-35-B1	<b>9926251835</b>
40	QY-1-13-DM-U2-40-B1	<b>9926251840</b>
45	QY-1-13-DM-U2-45-B1	<b>9926251845</b>
50	QY-1-13-DM-U2-50-B1	<b>9926251850</b>
60	QY-1-13-DM-U2-60-B1	<b>9926251860</b>

9926 Series  
Double Pole  
(125 VDC)



Type: Double Pole (125 VDC)		
Current Ratings (amps)	Description	Order Number
5	QY-2-13-DM-U2-5A-B1	<b>9926252805</b>
10	QY-2-13-DM-U2-10A-B1	<b>9926252810</b>
15	QY-2-13-DM-U2-15A-B1	<b>9926252815</b>
20	QY-2-13-DM-U2-20A-B1	<b>9926252820</b>
30	QY-2-13-DM-U2-30A-B1	<b>9926252830</b>
32	QY-2-13-DM-U2-32A-B1	<b>9926252832</b>
40	QY-2-13-DM-U2-40A-B1	<b>9926252840</b>
50	QY-2-13-DM-U2-50A-B1	<b>9926252850</b>
60	QY-2-13-DM-U2-60A-B1	<b>9926252860</b>

**Higher Amp Rating Available**

# Hydraulic Magnetic Supplementary Protection QZ-9926 Series Circuit Breakers AC Version

- AC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Four Poles
- CSA, VDE and CE Approved
- UL Recognized (UL 1077)
- Ratings up to 60A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Current Limiting Capabilities
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload



QZ Series

Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	60A
Interrupting capacity	5 kA @ 277/480 V, 5 kA @ 120 V, 5 kA @ 240 V
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C

Wire size*	
1-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

**Approval**  
 \*UL 1077 Recognized, VDE (EN 60947-2) Approved, cURus (CSA C22.2 No. 235), CE Marked

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

\*cURus recognized to UL1077 and C22.2 No. 235

9926 Series  
Single Pole



9926 Series  
Double Pole



9926 Series  
Triple Pole

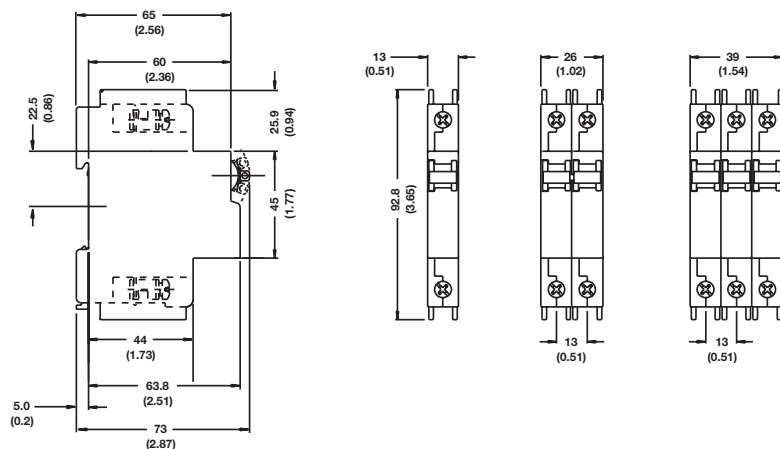


Type: Single Pole (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-1-13-D-2-01	9926251501
2	QZ-1-13-D-2-02	9926251502
3	QZ-1-13-D-2-03	9926251503
4	QZ-1-13-D-2-04	9926251504
5	QZ-1-13-D-2-05	9926251505
6	QZ-1-13-D-2-06	9926251506
8	QZ-1-13-D-2-08	9926251508
10	QZ-1-13-D-2-10	9926251510
15	QZ-1-13-D-2-15	9926251515
20	QZ-1-13-D-2-20	9926251520
25	QZ-1-13-D-2-25	9926251525
35	QZ-1-13-D-2-35	9926251535
40	QZ-1-13-D-2-40	9926251540
50	QZ-1-13-D-2-50	9926251550
60	QZ-1-13-D-2-60	9926251560

Type: Double Pole (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-2-13-D-2-01	9926252501
2	QZ-2-13-D-2-02	9926252502
4	QZ-2-13-D-2-04	9926252504
5	QZ-2-13-D-2-05	9926252505
6	QZ-2-13-D-2-06	9926252506
10	QZ-2-13-D-2-10	9926252510
15	QZ-2-13-D-2-15	9926252515
20	QZ-2-13-D-2-20	9926252520
25	QZ-2-13-D-2-25	9926252525
30	QZ-2-13-D-2-30	9926252530
35	QZ-2-13-D-2-35	9926252535
40	QZ-2-13-D-2-40	9926252540
50	QZ-2-13-D-2-50	9926252550
60	QZ-2-13-D-2-60	9926252560

Type: Triple Pole (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
10	QZ-3-13-D-2-10	9926253510
15	QZ-3-13-D-2-15	9926253515
20	QZ-3-13-D-2-20	9926253520
25	QZ-3-13-D-2-25	9926253525
30	QZ-3-13-D-2-30	9926253530
40	QZ-3-13-D-2-40	9926253540
50	QZ-3-13-D-2-50	9926253550
60	QZ-3-13-D-2-60	9926253560

### Dimension Diagrams in mm (in.)



### Accessories

Type	Order Number
Bus-bar (1 pole, insulated, 1 m)	67101904
Bus-bar (2 pole, insulated, 1 m)	67101972
Bus-bar (3 pole, insulated, 1 m)	67101971
Bus-bar end cap, 1 pole	67101973
Bus-bar end cap, 2 pole or 3 pole	67101974
Power lug, straight (14 mm)	67101960
Power lug, 90° (14 mm)	67101961
Power lug, straight (32 mm)	67102480
Power lug, 90° (32 mm)	67102479
Lock-out handle	67101913

# 9926 Series Supplementary Breakers with Contacts

## Circuit Breakers Auxiliary switch, Trip alarm, Combination of both

- AC Voltages 277/480V
- Trip curve 2 for general purpose applications
- UL 1077 recognized
- VDE approved and CE marked
- Just 13 mm wide
- Mounts to 35 mm DIN-rail
- Factory fitted auxiliary or trip alarm
- Single, double and triple pole versions

Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	60A
Interrupting capacity	5 kA @ 277/480 V, 5 kA @ 120 V, 5 kA @ 240 V
Dielectric strength	1500 V, 50/60 Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval
<sup>1</sup> UL 1077 Recognized, VDE (EN 60947-2) Approved, cURus (CSA C22.2 No. 235), CE Marked

<sup>4</sup>UL 489 listed  
(5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)  
IEC 60947-5-1 Approved  
(5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

\*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

## 9926 Series Single Pole w/ Auxiliary Contact<sup>1</sup>



Type: Single Pole Aux (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-A-1-13-D-2-01	9926261501
2	QZ-A-1-13-D-2-02	9926261502
5	QZ-A-1-13-D-2-05	9926261505
10	QZ-A-1-13-D-2-10	9926261510
15	QZ-A-1-13-D-2-15	9926261515
20	QZ-A-1-13-D-2-20	9926261520
25	QZ-A-1-13-D-2-25	9926261525

## 9926 Series Double Pole w/ Auxiliary Contact<sup>1</sup>



Type: Double Pole Aux (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-A-2-13-D-2-01	9926262501
2	QZ-A-2-13-D-2-02	9926262502
5	QZ-A-2-13-D-2-05	9926262505
10	QZ-A-2-13-D-2-10	9926262510
15	QZ-A-2-13-D-2-15	9926262515
20	QZ-A-2-13-D-2-20	9926262520
25	QZ-A-2-13-D-2-25	9926262525

## 9926 Series Triple Pole w/ Auxiliary Contact<sup>1</sup>



Type: Triple Pole Aux (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-A-3-13-D-2-01	9926263501
2	QZ-A-3-13-D-2-02	9926263502
5	QZ-A-3-13-D-2-05	9926263505
10	QZ-A-3-13-D-2-10	9926263510
15	QZ-A-3-13-D-2-15	9926263515
20	QZ-A-3-13-D-2-20	9926263520
25	QZ-A-3-13-D-2-25	9926263525

## 9926 Series Single Pole Trip (Alarm Contact)



Type: Single Pole Trip (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-T-1-13-D-2-01	9926271501
2	QZ-T-1-13-D-2-02	9926271502
5	QZ-T-1-13-D-2-05	9926271505
10	QZ-T-1-13-D-2-10	9926271510
15	QZ-T-1-13-D-2-15	9926271515
20	QZ-T-1-13-D-2-20	9926271520
25	QZ-T-1-13-D-2-25	9926271525

## 9926 Series Double Pole Trip (Alarm Contact)



Type: Double Pole Trip (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-T-2-13-D-2-01	9926272501
2	QZ-T-2-13-D-2-02	9926272502
5	QZ-T-2-13-D-2-05	9926272505
10	QZ-T-2-13-D-2-10	9926272510
15	QZ-T-2-13-D-2-15	9926272515
20	QZ-T-2-13-D-2-20	9926272520
25	QZ-T-2-13-D-2-25	9926272525

## 9926 Series Triple Pole Trip (Alarm Contact)



Type: Triple Pole Trip (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-T-3-13-D-2-01	9926273501
2	QZ-T-3-13-D-2-02	9926273502
5	QZ-T-3-13-D-2-05	9926273505
10	QZ-T-3-13-D-2-10	9926273510
15	QZ-T-3-13-D-2-15	9926273515
20	QZ-T-3-13-D-2-20	9926273520
25	QZ-T-3-13-D-2-25	9926273525

## 9926 Series Single Pole Combination (Auxiliary & Alarm Contact)<sup>1</sup>



Type: Single Pole Combo (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-AT-1-13-D-2-01	9926281501
2	QZ-AT-1-13-D-2-02	9926281502
5	QZ-AT-1-13-D-2-05	9926281505
10	QZ-AT-1-13-D-2-10	9926281510
15	QZ-AT-1-13-D-2-15	9926281515
20	QZ-AT-1-13-D-2-20	9926281520
25	QZ-AT-1-13-D-2-25	9926281525

## 9926 Series Double Pole Combination (Auxiliary & Alarm Contact)<sup>1</sup>



Type: Double Pole Combo (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-AT-2-13-D-2-01	9926282501
2	QZ-AT-2-13-D-2-02	9926282502
5	QZ-AT-2-13-D-2-05	9926282505
10	QZ-AT-2-13-D-2-10	9926282510
15	QZ-AT-2-13-D-2-15	9926282515
20	QZ-AT-2-13-D-2-20	9926282520
25	QZ-AT-2-13-D-2-25	9926282525

## 9926 Series Triple Pole Combination (Auxiliary & Alarm Contact)<sup>1</sup>



Type: Triple Pole Combo (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-AT-3-13-D-2-01	9926283501
2	QZ-AT-3-13-D-2-02	9926283502
5	QZ-AT-3-13-D-2-05	9926283505
10	QZ-AT-3-13-D-2-10	9926283510
15	QZ-AT-3-13-D-2-15	9926283515
20	QZ-AT-3-13-D-2-20	9926283520
25	QZ-AT-3-13-D-2-25	9926283525



## QF-9926 Series Circuit Breakers Ground Fault Current Interrupt Version



### Features

- CE approved
- UL1077 and UL1053 recognized
- Small frame size (26mm wide)
- Single pole plus switched neutral ground leakage protection
- Trip point is unaffected by ambient temperature
- Current ratings up to 50A
- Trip indication (mid-trip handle position)
- Trip curve 2 for general purpose applications

### 9926 Series GFCI

Type: Triple Pole (up to 480 VAC)		
Current Ratings (amps)	Description	Part No.
5	QF17A2505 - CB W/GFI	9926291105
10	QF17A2510 - CB W/GFI	9926291110
15	QF17A2515 - CB W/GFI	9926291115
20	QF17A2520 - CB W/GFI	9926291120
25	QF17A2525 - CB W/GFI	9926291125
30	QF17A2530 - CB W/GFI	9926291130
50	QF17A2550 - CB W/GFI	9926291150

### Technical Data

Product Type	QF17A
Standard Ampere Ratings (A)	5 to 63A
Sensitivity (mA)	30 (CE) / 22 (UL)
Number of Poles	1 + N
Equipment Type	Earth Leakage/GFCIS
Rated Voltage (V)	230 (CE) / 240 (UL)
Rated Interrupting/	5 kA
Withstand Capacity (kA)	-
Weight (kg)	0,26
Tripping Curves(1) (standard)	2
Operating Temperature	-40 to +60°C

## Supplemental Circuit Protection

### CB 4200 Series

- Push button style trip/reset function
- UL 1077 recognized
- CSA C22.2 No. 235
- Available in single- and double-pole versions; 12.5mm per pole
- Applicable current range: 0.10A - 16.0A, up to 65 VDC and 250 VAC

Internal Resistance Per Pole (Ohms)	Current	Single Pole	Double Pole
131.0	0.1 A	9104173500	9120353500
40.0	0.2 A	9104183500	9124243500
19.3	0.3 A	9129813500	9124263500
10.40	0.4 A	9124093500	9124273500
7.1	0.5 A	9101003500	9129583500
4.3	0.6 A	9124113500	9124283500
3.58	0.7 A	9129563500	9124293500
2.5	0.8 A	9101103500	9129593500
1.67	1 A	9101203500	9129613500
1.22	1.2 A	9101303500	9129623500
0.61	1.5 A	9101403500	9129633500
0.55	1.8 A	9124143500	9124333500
0.38	2 A	9101503500	9129643500
0.24	2.5 A	9101603500	9129653500
0.19	3 A	9101703500	9129663500
0.16	3.5 A	9124163500	9124343500
0.09	4 A	9104353500	9129713500
0.09	4.5 A	9124173500	9124353500
0.061	5 A	9101803500	9129673500
0.07	5.5 A	9107833500	9124363500
0.041	6 A	9103813500	9124373500
0.04	6.5 A	9120043500	9124383500
0.034	7 A	9104153500	9124393500
0.02	8 A	9103003500	9104673500
0.02	9 A	9104613500	9124423500
<0.02	10 A	9101903500	9129683500
<0.02	11 A	9124183500	9124433500
<0.02	12 A	9107843500	9124443500
<0.02	13 A	9124193500	9124453500
<0.02	14 A	9107853500	9124463500
<0.02	15 A	9102003500	9129693500
<0.02	16 A	9124213500	9124473500



CB 4200 Series



CB 4200 Series 2 Pole

## Supplemental Circuit Protection

### CB 2200 Series

- Lever style trip/reset breaker
- UL 1077 recognized
- CSA C22.2 No. 235
- Available in single-, double-, and triple-pole versions; 12.5mm per pole
- Applicable current ranges: 0.05A...32.0A, up to 65 VDC, 277/480 VAC
- Available in normally open (N/O) and normally closed (N/C) auxiliary contacts



CB 2200 Series

Current	Single Pole** Order Number	Double Pole** Order Number	Triple Pole** Order Number	Single Pole* N/O Aux. Order Number	Double Pole N/O-N/C Order Number	Triple Pole N/O-N/C Order Number
0.1 A	9911010000	9912010000	9913010000	9911010005	9912010003	9913010003
0.2 A	9911020000	9912020000	9913020000	9911020005	9912020003	9913020003
0.3 A	9911030000	9912030000	9913030000	9911030005	9912030003	9913030003
0.4 A	9911040000	9912040000	9913040000	9911040005	9912040003	9913040003
0.5 A	9911050000	9912050000	9913050000	9911050005	9912050003	9913050003
0.6 A	9911060000	9912060000	9913060000	9911060005	9912060003	9913060003
0.8 A	9911080000	9912080000	9913080000	9911080005	9912080003	9913080003
1 A	9911100000	9912100000	9913100000	9911100005	9912100003	9913100003
1.5 A	9911150000	9912150000	9913150000	9911150005	9912150003	9913150003
2 A	9911200000	9912200000	9913200000	9911200005	9912200003	9913200003
2.5 A	9911250000	9912250000	9913250000	9911250005	9912250003	9913250003
3 A	9911300000	9912300000	9913300000	9911300005	9912300003	9913300003
4 A	9911400000	9912400000	9913400000	9911400005	9912400003	9913400003
5 A	9911500000	9912500000	9913500000	9911500005	9912500003	9913500003
6 A	9911600000	9912600000	9913600000	9911600005	9912600003	9913600003
8 A	9911800000	9912800000	9913800000	9911800005	9912800003	9913800003
10 A	9921100000	9922100000	9923100000	9921100005	9922100003	9923100003
12 A	9921120000	9922120000	9923120000	9921120005	9922120003	9923120003
15 A	9921150000	9922150000	9923150000	9921150005	9922150003	9923150003
16 A	9921160000	9922160000	9923160000	9921160005	9922160003	9923160003
18 A	9921180000	9922180000	9923180000	9921180005	9922180003	9923180003
20 A	9921200000	9922200000	9923200000	9921200005	9922200003	9923200003
25 A	9921250000	9922250000	9923250000	9921250005		
32 A	9921320000	9922320000	9923320000	9921320005		

\*\*All Order Numbers with N/C Auxiliary Contacts on each pole when the main breaker contact is open (in the OFF position)

## Electronic Circuit Protection

### ESX10-T

- Selective load protection, electronic trip characteristics
- Active current limitation for safe connection of capacitive loads up to 20,000 µF and on overload/short circuit
- Current ratings 0.5 A... 12 A
- Reliable overload disconnection with  $1.1 \times I_n$  plus, even with long load lines or small cable cross sections
- Manual ON/OFF button (S1)
- Control input IN+ for remote ON/OFF signal (option)
- Electronic reset input RE (option)
- Clear status and failure indication through LED, status output SF or Si contact F
- Integral fail-safe element adjusted to current rating
- Width per unit only 12.5 mm
- Rail mounting
- Ease of wiring through busbar LINE+ and 0 V as well as signal bars and bridges
- UL/CSA Hazardous area approved – Class 1, Div 2



ESX10-T

### Approvals

Authority	Voltage Rating	Current Ratings
UL2367 (E306740)	24 VDC	0.5...12 A
UL1604 (E322549) (class 1, div. 2, group A, B, C, D)	24 VDC	0.5...12 A
UL508/ cUL 508	24 VDC	0.5...12 A
CSA file 165971: CSA C22.2 No: 213 (class I, div. 2) Groups A, B, C, D, T5	24 VDC	0.5...12 A
CSA C22.2 No: 142	24 VDC	0.5...12 A

Class 2  
Meets requirements for Class 2 current limitation ESX10-T... 0.5 A / 1 A / 2 A / 3 A

### Ordering Information

Version	Signal Input			Signal Output			Status Output	
	Without Signal Input	Control Input ON/OFF Reset	Remote Reset	Without Signal Output	Single Signal N/O (normally open NO)	Single Signal N/C (normally closed NC)	Without Signal Output	Status OUT Positive 24V = OK Status OUT ØV = OK
ESX10-TA-100	x			x			x	
ESX10-TB-114		x						x
ESX10-TB-124			x	x				x

Current Rating (amps)	Circuit Protection Order Number	Current Rating (amps)	Control Input Order Number	Current Rating (amps)	Reset Input Order Number
<b>ESX10-TA-100</b>		<b>ESX10-TB-114<sup>1</sup></b>		<b>ESX10-TB-124<sup>2</sup></b>	
0.5	6720005305	0.5	6720005360	0.5	6720005380
1	6720005301	1	6720005361	1	6720005381
2	6720005302	2	6720005362	2	6720005382
3	6720005303	3	6720005363	3	6720005383
4	6720005304	4	6720005364	4	6720005384
6	6720005306	6	6720005366	6	6720005386
8	6720005308	8	6720005368	8	6720005388
10	6720005310	10	6720005370	10	6720005390
12	6720005312	12	6720005372	12	6720005392

<sup>1</sup> Control force input on/off

<sup>2</sup> Reset input only to reset under fault conditions

# Electronic Load Monitoring

topGUARD / maxGUARD: DC Circuit Protection



## Intelligent and innovative solutions for reliable load monitoring

Modern machines and plants require load monitoring systems that are intelligent, efficient and reliable. Our portfolio of modular solutions offer high degrees of flexibility for a wide range of applications, while at the same time saving time and space during installation.

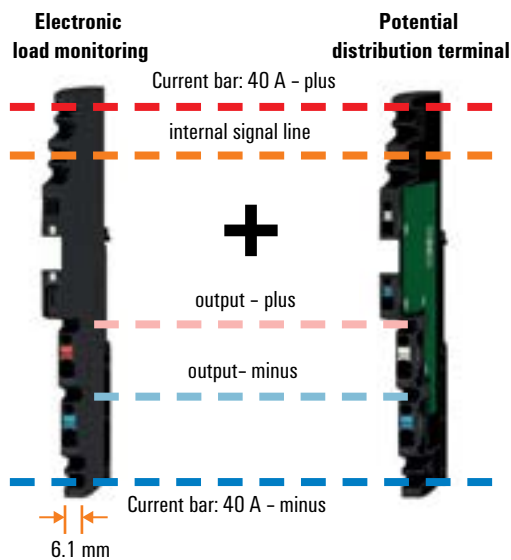
# topGUARD and maxGUARD

## The innovative Control Voltage Distribution with protection system to 24VDC lines

New ways in the control current distribution increase the efficiency in the operation of machines and plants. The combination of load monitoring and potential distribution terminals saves up to 50% space and up to 20% wiring costs, while the free combinability of numerous single-channel and four-channel variants optimizes material costs. Benefit from the advantages of a modular system that offers you high flexibility and adapts optimally to any application.



### Combination of load monitoring and potential distribution



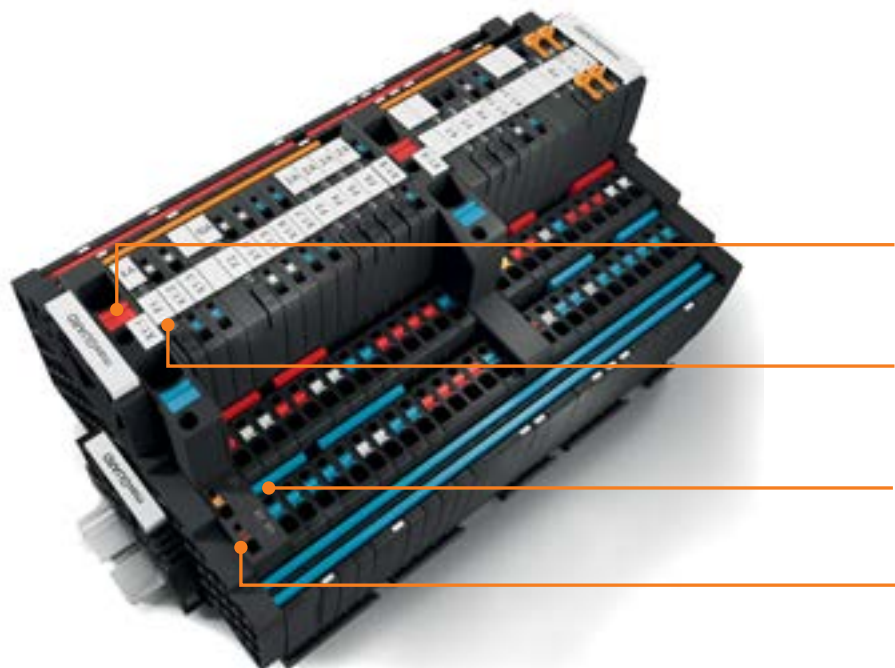
- Three main connection channels: positive, negative and internal signals
- Simple to increase the number of contacts thanks to cross-connection option in the potential distribution terminals





# maxGUARD at a Glance

## Protection with remote alarm and remote reset



maxGUARD is a customizable 24Vdc Control Distribution Solution. Freely combination of load monitoring devices and terminal blocks provides application flexibility.

- Each ELM of maxGUARD is a Solid-State Overcurrent Protector.
- Main Voltage is applied in Feed-In Module (FIM), which spreads the current through Up and Down cross-connectors to Electronic Load Monitors (ELM).
- Reset of a trip condition can be made locally (push-button on the ELM).
- The ELM can be connected directly to a load or can increase the number of connections with terminal blocks and intermediated cross-connectors.
- The ELM can also inform their status (tripped or not) to Feed-In Module (FIM).
- A Controlled Feed-In Module (FIM-C) can generate a remote alarm and can reset the ELM remotely.

**Test points for easy troubleshooting**



**Cross-connectors save time (up to 20%), space and offer the best contact.**



**Practical disconnecting lever: For testing and checking**



**Electronic Load Monitors: Best in class protection with footprint of 6mm**  
Space saving of up to 50%



**Can be used in a customized way**

The sheer range of variants and the very different potential distribution terminals and additional components enable customized solutions at all times.

**Extreme ease of servicing**

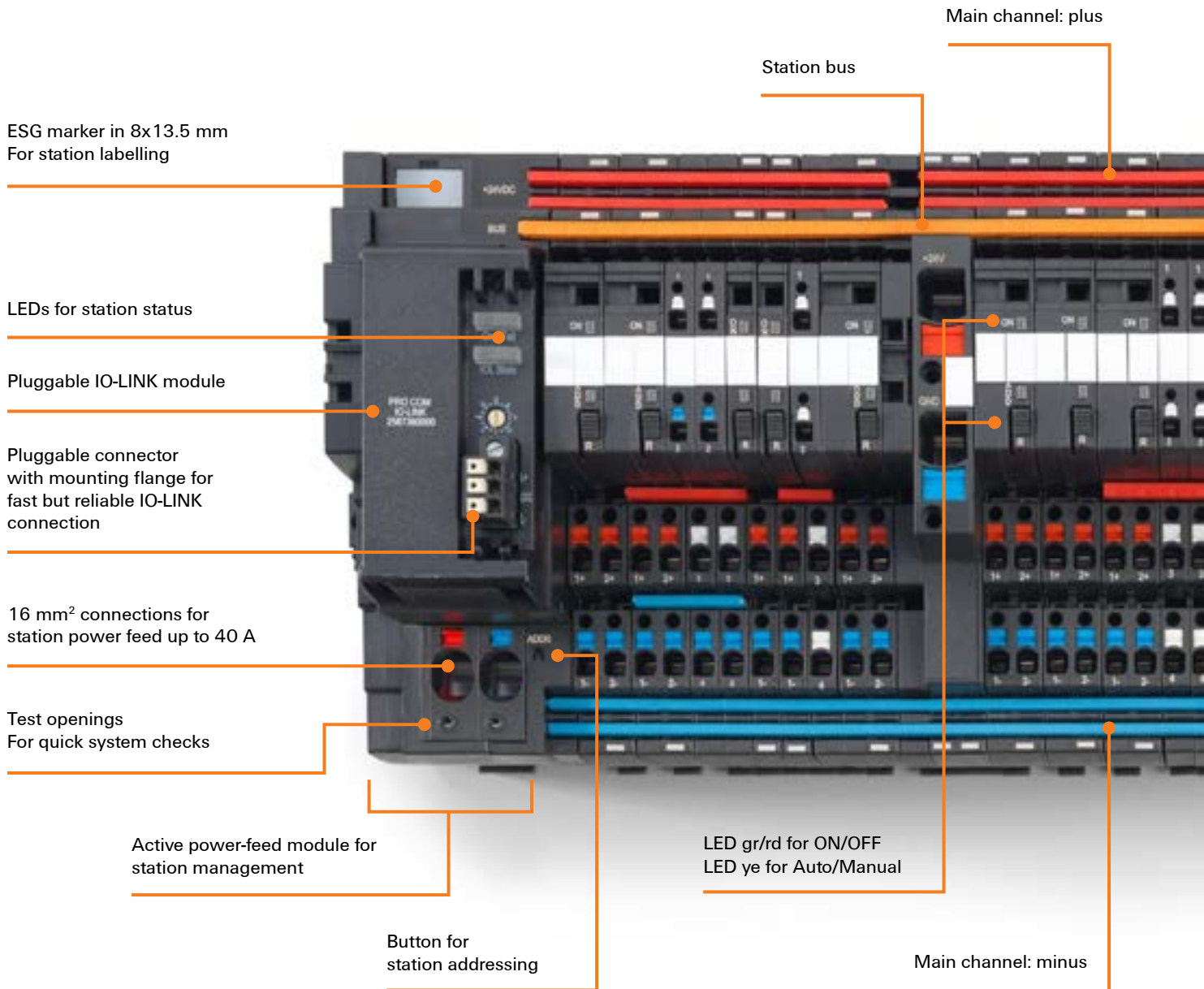
Sophisticated operating, testing and connection elements permit safe access to all voltage potentials and load circuits during commissioning and maintenance.

# Intelligent load monitoring and potential distribution

## topGUARD – control voltage distribution on a new level

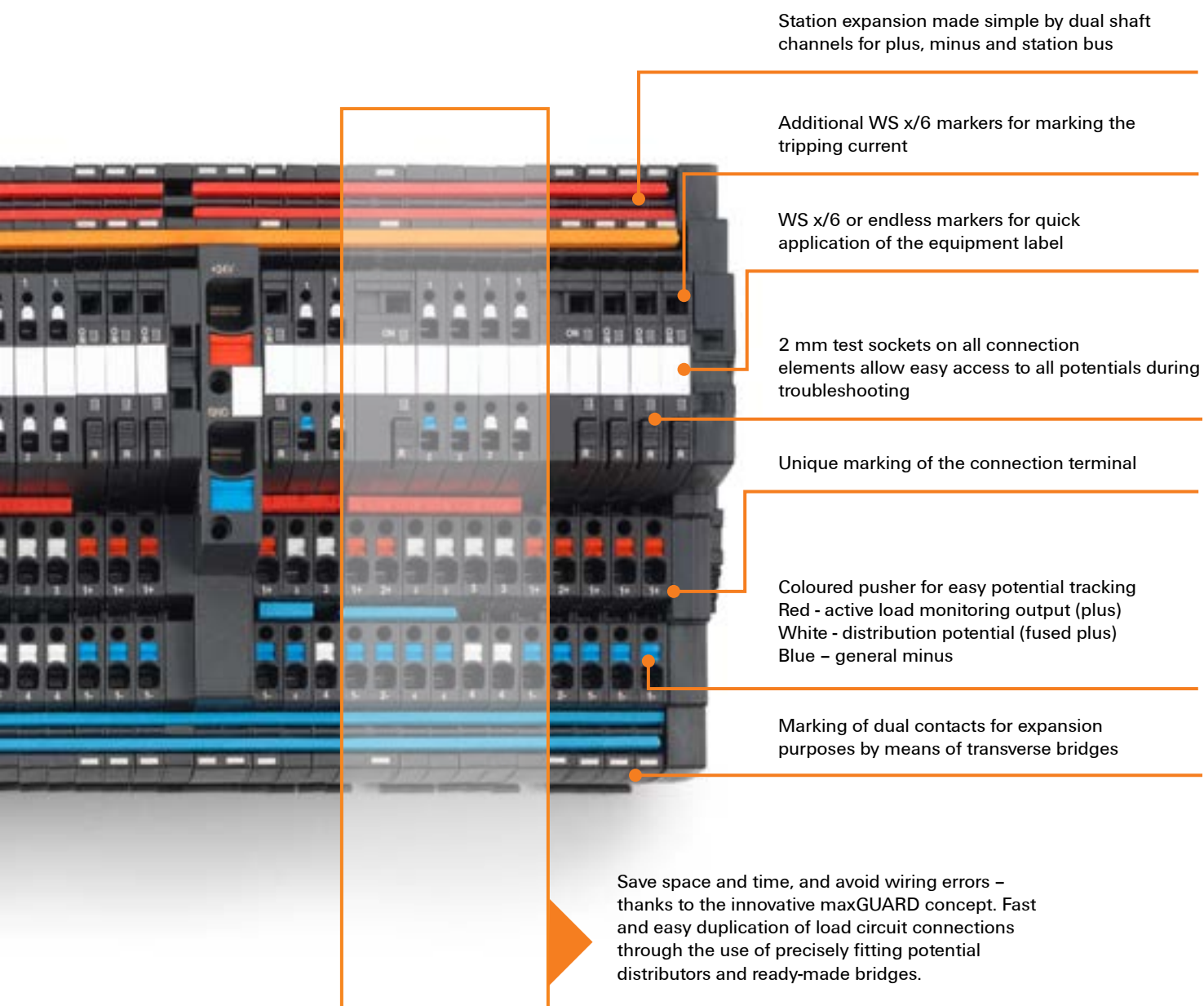
### Features


- Pluggable IO-LINK communication module
- Full channel monitoring: ON/OFF, Triggered, Fault
- Access to all channel currents and output voltages
- Programmable tripping current and free selection of characteristic curves
- Remote access to all load monitoring: ON/OFF; Reset
- Pre-selectable switch-on delay, alarm and early warning values
- Modular and flexible with 3 load monitoring types: 1-6 A (6.1 mm), 4-12 A (12.2 mm), 1-4 A class 2 (6.1 mm)
- Extended temperature range: -25...+70°C




## topGUARD – with the advantages of the maxGUARD concept

- Innovative integrated potential distribution
- Extremely space-saving 6.1 mm pitch
- Modular concept saves unused fuse channels
- Service-friendly and expandable at any time




topGUARD Active Modules	Description	Type	Order Number
 <ul style="list-style-type: none"> <li>• IO-Link-capable load monitoring</li> <li>• Integrated potential distributor</li> <li>• Modular overall system</li> </ul>	Feed-In Module	TGD FIM-C	2625000000
	Electronic Load Monitor 1 up to 6A	TGD ELM-6	2624980000
	Electronic Load Monitor 4 up to 12A	TGD ELM-12	2624990000
	Electronic Load Monitor 1 up to 4A Class 2 Power	TGD ELM-4 CL2	2656670000
	Communication Module IO-Link	PRO COM IO-LINK	2587360000

Passive Power Feed-In Module	Potential distributor
AMG FIM-O: Passive Power Feed-In Module module (add power at middle of the line)	AMG OD: 2 x Plus, 2 x Minus AMG PD: 4 x Plus AMG MD: 4 x Minus AMG XMD: 4 x Minus (direct) AMG DIS: Manual disconnection

topGUARD and maxGUARD Passive Modules						Type	Order Number	Type	Order Number
AMG FIM-O	AMG OD	AMG PD	AMG MD	AMG XMD	AMG DIS	AMG FIM-O	2081870000	AMG OD	2122910000
								AMG OD EX	2495090000
								AMG PD	2122920000
								AMG PD EX	2495070000
								AMG MD	2122930000
								AMG MD EX	2495040000
								AMG XMD	2122940000
								AMG XMD EX	2495080000
								AMG DIS	2123050000
							AMG DIS EX	2495100000	

Power Feed-In, control and alarm module	Load monitoring (fixed value)	Load monitoring (adjustable) Load monitoring (fixed value) Class 2
FIM: Passive or active Power Feed In Module module with reset and alarm function. CM: Control module + extra control function. AM: Alarm module with potential-free contacts for the "Alarm" and "I>90%" signals.	ELM...F: Electronic Load Monitoring with fixed current. ELM...F EX: Electronic load monitoring with fixed current for ATEX Zone 2.	ELM: Electronic Load Monitoring with adjustable triggering current. ELM... EX: Electronic Load Monitoring with adjustable triggering current for ATEX Zone 2. ELM...D CO: Electronic Load Monitoring with adjustable triggering current and output relays. ELM...F CL2: Electronic load monitoring with fixed rated current Class 2 Power.

maxGUARD Modules	Type	Order Number	Type	Order Number	Type	Order Number
	AMG FIM-O	2081870000	AMG ELM-1F	2080420000	AMG ELM-6	2080360000
	AMG FIM-C	2081880000	AMG ELM-1F EX	2082040000	AMG ELM-6 EX	2082000000
	AMG FIM-O EX	2082530000	AMG ELM-2F	2080480000	AMG ELM-12	2080410000
	AMG FIM-C EX	2082540000	AMG ELM-2F EX	2082050000	AMG ELM-12 EX	2082010000
	AMG CM	2081900000	AMG ELM-4F	2080490000	AMG ELM-6D CO	2082440000
	AMG CM EX	2083360000	AMG ELM-4F EX	2082060000	AMG ELM-10D CO	2082470000
	AMG AM	2081890000	AMG ELM-6F	2080500000	AMG ELM-1F CL2	2491270000
	AMG AM CO	2082770000	AMG ELM-6F EX	2082310000	AMG ELM-2F CL2	2491280000
					AMG ELM-4F CL2	2491290000
					AMG ELM-8F	2080600000
					AMG ELM-8F EX	2082320000
					AMG ELM-10F	2080650000
				AMG ELM-10F EX	2082430000	



## Accessories

### maxGUARD – accessories

#### Cross-connector orange



Type	Qty.	Order Number
2-pole	ZQV 4N/2	60 <b>1527930000</b>
3-pole	ZQV 4N/3	60 <b>1527940000</b>
4-pole	ZQV 4N/4	60 <b>1527970000</b>
5-pole	ZQV 4N/5	60 <b>1527980000</b>
6-pole	ZQV 4N/6	20 <b>1527990000</b>
7-pole	ZQV 4N/7	20 <b>1528020000</b>
8-pole	ZQV 4N/8	20 <b>1528030000</b>
9-pole	ZQV 4N/9	20 <b>1528070000</b>
10-pole	ZQV 4N/10	20 <b>1528090000</b>
50-pole	ZQV 4N/50	5 <b>1528130000</b>

#### Cross-connector blue



Type	Qty.	Order Number
2-pole	ZQV 4N/2 BL	60 <b>1528040000</b>
3-pole	ZQV 4N/3 BL	60 <b>1528080000</b>
4-pole	ZQV 4N/4 BL	60 <b>1528120000</b>
5-pole	ZQV 4N/5 BL	60 <b>1528140000</b>
6-pole	ZQV 4N/6 BL	20 <b>1528170000</b>
7-pole	ZQV 4N/7 BL	20 <b>1528180000</b>
8-pole	ZQV 4N/8 BL	20 <b>1528190000</b>
9-pole	ZQV 4N/9 BL	20 <b>1528220000</b>
10-pole	ZQV 4N/10 BL	20 <b>1528230000</b>
50-pole	ZQV 4N/50 BL	5 <b>1528240000</b>

#### Cross-connector red



Type	Qty.	Order Number
2-pole	ZQV 4N/2 RD	60 <b>2460450000</b>
3-pole	ZQV 4N/3 RD	60 <b>2460810000</b>
4-pole	ZQV 4N/4 RD	60 <b>2460800000</b>
5-pole	ZQV 4N/5 RD	60 <b>2460790000</b>
6-pole	ZQV 4N/6 RD	20 <b>2460780000</b>
7-pole	ZQV 4N/7 RD	20 <b>2460770000</b>
8-pole	ZQV 4N/8 RD	20 <b>2460760000</b>
9-pole	ZQV 4N/9 RD	20 <b>2460750000</b>
10-pole	ZQV 4N/10 RD	20 <b>2460740000</b>
50-pole	ZQV 4N/50 RD	5 <b>2460730000</b>

### maxGUARD – accessories

#### Endplate and separation plate



Type	Qty.	Order Number
AMG PP	40	<b>2123000000</b>
AMG EP 2010	30	<b>2495380000</b>
AMG EP KIT	1	<b>2500760000</b>

#### End brackets



Type	Qty.	Order Number
WEW 35/2 SW	100	<b>1061210000</b>
WEW 35/2 V0 GF SW	100	<b>1479000000</b>

#### Cutting tool for ZQV



Type	Qty.	Order Number
KT 14	1	<b>1157820000</b>



# Power Supplies

Electronics



Power supplies from Weidmüller have long since proved their worth in supplying electrical modules. They can therefore be used safely in harsh industrial environments, in small businesses and in living areas, and have been granted international approvals. Weidmüller provides power supplies and additional components for industrial applications:

- Switched-mode power supply units
- DC/DC converters
- UPS control modules
- Electronic fuses

# Power Supplies

Weidmüller offers a full range of power supplies for process control and manufacturing automation applications.

## INSTA-POWER

### A permanent power supply for buildings and machines

The single-phase INSTA-POWER switched mode power supplies are characterized by a large power spectrum, a compact design and a good price-performance ratio. They are suitable for temperature ranges from -25° C (77° F) to +70° C (158° F), have international approvals and a wide range voltage input.

#### Features

- Extremely compact and particularly energy-efficient
- Available in nine variants with 5, 12, 24 and 48 V DC output voltage
- Universally applicable thanks to international approvals (cCSAus (UL508), Class1 Div. 2, and NEC Class power output 2 until 90W)
- Flexible on mounting rails or wall mountable at the Switch cabinet
- Fast installation with PUSH IN connection technology
- Main application: low depth electrical panels or Class 2 power circuits



PRO INSTA 16W 24V 0.7A



PRO INSTA 60W 12V 5A



PRO INSTA 90W 24V 3.8A

Type	Input		Output		Dimensions Width x Height x Depth (mm)	Order Number
	Input AC	Input DC	Rated Voltage DC	Adjustable Output		
PRO INSTA 30W 5V 6A	85...264 V AC	95...370 V DC	5 V DC / 6 A	4 - 7 V DC	72 x 90 x 60	2580210000
PRO INSTA 30W 12V 2.6A	85...264 V AC	95...370 V DC	12 V DC / 2.6 A	9 - 16 VDC	54 x 90 x 60	2580220000
PRO INSTA 60W 12V 5A	85...264 V AC	95...370 V DC	12 V DC / 5 A	9 - 16 V DC	72 x 90 x 60	2580240000
PRO INSTA 16W 24V 0.7A	85...264 V AC	95...370 V DC	24 V DC / 0.7 A	22-28 V DC	22,5 x 90 x 60	2580180000
PRO INSTA 30W 24V 1.3A	85...264 V AC	95...370 V DC	24 V DC / 1.3 A	22-28 V DC	72 x 90 x 60	2580190000
PRO INSTA 60W 24V 2.5A	85...264 V AC	95...370 V DC	24 V DC / 2.5 A	22-28 V DC	72 x 90 x 60	2580230000
PRO INSTA 90W 24V 3.8A	85...264 V AC	95...370 V DC	24 V DC / 4 A	22-28 V DC	90 x 90 x 60	2580250000
PRO INSTA 96W 24V 4A	85...264 V AC	95...370 V DC	24 V DC / 3.8 A	22-28 V DC	90 x 90 x 60	2580260000
PRO INSTA 96W 48V 2A	85...264 V AC	95...370 V DC	48 V DC / 2 A	35 - 56 V DC	90 x 90 x 60	2580270000

#### Approvals

	according UL508 and CSA 22
	Class 1 Div. 2 Class 2 Power (except PRO INSTA 96W 24V 4A and PRO INSTA 96W 48V 2A)

## PROeco “the economical solution”

### Best performance on a small budget

PROeco switched-mode power supply units are defined by their compact design, high degree of efficiency and ease of service. This is due to over temperature protection, short-circuit and overload protection. They can be used universally in almost all applications. Used with our diode modules, capacity modules and UPS offerings, the PROeco provides utmost flexibility, extensive safety and redundancy options.

- Fast status diagnostics: tricolor LED indication
- High efficiency: up to 93%
- Wide operating range: -25°C (-13° F) to +70°C (158° F)
- Reliable: MTBF > 500,000 hours
- Alarm ability: includes integrated status output relay
- Main application: Serial machinery and standard panels



Type	Input		Output				Dimensions		Order Number
	1-Phase	2/3--Phase	Input Voltage AC	Input Voltage DC	Output Nominal Voltage / Current (DC)	Adjustable Output	Parallel Running	Width X Height X Depth (mm)	
PRO ECO 72W 24V 3A	•		85 - 264 V	80 - 370 V	24 V/ 3 A	22...28 V DC	•	34 x 125 x 100	1469470000
PRO ECO 120W 24V 5A	•		85 - 264 V	80 - 370 V	24 V/ 5 A	22...28 V DC	•	40 x 125 x 100	1469480000
PRO ECO 240W 24V 10A	•		85 - 264 V	80 - 370 V	24 V/ 10 A	22...28 V DC	•	60 x 125 x 100	1469490000
PRO ECO 480W 24V 20A	•		85 - 264 V	80 - 370 V	24 V/ 20 A	22...28 V DC	•	100 x 125 x 120	1469510000
PRO ECO 960W 24V 40A	•		85 - 264 V	80 - 370 V	24 V/ 40 A	22...28 V DC	•	160 x 125 x 120	1469520000
PRO ECO3 120W 24V 5A		•	3x 340 - 575 V	450...500V	24 V/ 5 A	22...28 V DC	•	40 x 125 x 100	1469530000
PRO ECO3 240W 24V 10A		•	3x 340 - 575 V	450...500V	24 V/ 10 A	22...28 V DC	•	60 x 125 x 100	1469540000
PRO ECO3 480W 24V 20A		•	3x 340 - 575 V	450...500V	24 V/ 20 A	22...28 V DC	•	100 x 125 x 120	1469550000
PRO ECO3 960W 24V 40A		•	3x 340 - 575 V	450...500V	24 V/ 40 A	22...28 V DC	•	160 x 125 x 120	1469560000
PRO ECO 72W 12V 6A	•		85 - 264 V	80 - 370 V	12 V/ 6 A	10...16 V DC	•	34 x 125 x 100	1469570000
PRO ECO 120W 12V 10A	•		85 - 264 V	80 - 370 V	12 V/ 10 A	10...16 V DC	•	40 x 125 x 100	1469580000
PRO ECO 240W 48V 5A	•		85 - 264 V	80 - 370 V	48 V/ 5 A	42...56 V DC	•	60 x 125 x 100	1469590000
PRO ECO 480W 48V 10A	•		85 - 264 V	80 - 370 V	48 V/ 10 A	42...56 V DC	•	100 x 125 x 120	1469610000

## PROmax Power Supplies

### For Your Toughest Demands!

PROmax power supplies are high performance switched mode supplies designed for the demanding needs of process heavy applications. They feature start up at temperatures as low as -40°C, Hazardous Area approvals (UL, Class 1 Division 2) and a 300% power boost, making them an ideal choice for harsh environment applications that require maximum power.

- Small housing: 32 mm – 140 mm widths
- MTBF: >500,000 hours
- Wide temperature range: -25° C (77° F) to +70° C (158° F), startup at -40° C (-40° F)
- External monitoring with relay contact
- Capable of parallel and series output connections
- Bi-color LED for easy status indication
- Shock and vibration resistant
- Powerful output surge capability up to 300%



Type	Input		Output				Dimensions		Order Number
	1-Phase	2/3 -Phase	Input Voltage AC	Input Voltage DC	Output Nominal Voltage / Current (DC)	Adjustable Output	Parallel Running	Width X Height X Depth (mm)	
PRO MAX 72W 24V 3A	•		85 - 277 V	80 - 370 V	24 V/ 3 A	22,5 - 29,5 V	•	32 x 130 x 125	1478100000
PRO MAX 120W 24V 5A	•		85 - 277 V	80 - 370 V	24 V/ 5 A	22,5 - 29,5 V	•	40 x 130 x 125	1478110000
PRO MAX 180W 24V 7,5A	•		85 - 277 V	80 - 370 V	24 V/ 7,5 A	22,5 - 29,5 V	•	50 x 130 x 125	1478120000
PRO MAX 240W 24V 10A	•		85 - 277 V	80 - 370 V	24 V/ 10 A	22,5 - 29,5 V	•	60 x 130 x 125	1478130000
PRO MAX 480W 24V 20A	•		85 - 277 V	80 - 370 V	24 V/ 20 A	22,5 - 29,5 V	•	90 x 130 x 150	1478140000
PRO MAX 960W 24V 40A	•		85 - 277 V	80 - 370 V	24 V/ 40 A	22,5 - 29,5 V	•	140 x 130 x 150	1478150000
PRO MAX3 120W 24V 5A		•	3 x 320 - 575 V	450...500V	24 V/ 5 A	22,5 - 29,5 V	•	40 x 130 x 125	1478170000
PRO MAX3 240W 24V 10A		•	3 x 320 - 575 V	450...500V	24V/ 10A	22,5 - 29,5 V	•	60 x 130 x 125	1478180000
PRO MAX3 480W 24V 20A		•	3 x 320 - 575 V	450...500V	24 V/ 20 A	22,5 - 29,5 V	•	90 x 130 x 150	1478190000
PRO MAX3 960W 24V 40A		•	3 x 320 - 575 V	450...500V	24 V/ 40 A	22,5 - 29,5 V	•	140 x 130 x 150	1478200000
PRO MAX 70W 5V 14A	•		85 - 277 V	80 - 370 V	5 V/ 14 A	4,5 - 7 V	•	32 x 130 x 125	1478210000
PRO MAX 72W 12V 6A	•		85 - 277 V	80 - 370 V	12 V/ 6 A	10 - 15 V	•	32 x 130 x 125	1478220000
PRO MAX 120W 12V 10A	•		85 - 277 V	80 - 370 V	12 V/ 10 A	10 - 15 V	•	40 x 130 x 125	1478230000
PRO MAX 240W 48V 5A	•		85 - 277 V	80 - 370 V	48 V/ 5 A	30 - 56 V	•	60 x 130 x 125	1478240000
PRO MAX 480W 48V 10A	•		85 - 277 V	80 - 370 V	48 V/ 10 A	30 - 56 V	•	90 x 130 x 150	1478250000
PRO MAX 960W 48V 20A	•		85 - 277 V	80 - 370 V	48 V/ 20 A	30 - 56 V	•	140 x 130 x 150	1478270000

# PROtop “the innovative one”

## Reliable power supply for highest demands

If reliable availability and energy efficiency are required even under adverse conditions or in hard-to-reach locations, then our PROtop family is the right choice.

The pre-destined solution. The powerful DCL technology gives the switched mode power supply units an outstanding Dynamic range - ideal for reliable pulse triggering of miniature and standard circuit breakers or as additional energy for powerful motor starts.

- Safe tripping of miniature circuit breakers due to peak current reserve of up to 600% for 15ms
- Efficiencies of up to 95.4% lead to low heat losses and extremely space saving housings
- New data interface makes the PROtop power supplies fit for digitization
- Start-up temperatures as low as -40 °C (for EX/C1D2 version)
- Output ORing MOSFET incorporated: Allows redundancy without diode module



### Approvals



Type	Input		Output				Dimensions		Order Number
	1-Phase	2/3 -Phase	Input Voltage AC	Input Voltage DC	Output Nominal Voltage / Current (DC)	Adjustable Output	Parallel Running	Width X Height X Depth (mm)	
PRO TOP1 72W 24V 3A	•		85 - 277 V	80 - 410 V	24 V/ 3 A	22,5 - 29 V DC	•	35 x 120 x 125	2466850000
PRO TOP1 120W 24V 5A	•		85 - 277 V	80 - 410 V	24 V/ 5 A	22,5 - 29 V DC	•	35 x 130 x 125	2466870000
PRO TOP1 240W 24V 10A	•		85 - 277 V	80 - 410 V	24 V/ 10 A	22,5 - 29 V DC	•	39 x 130 x 125	2466880000
PRO TOP1 480W 24V 20A	•		85 - 277 V	80 - 410 V	24 V/ 20 A	22,5 - 29 V DC	•	68 x 130 x 125	2466890000
PRO TOP1 960W 24V 40A	•		85 - 277 V	80 - 410 V	24 V/ 40 A	22,5 - 29 V DC	•	124 x 130 x 125	2466900000
PRO TOP3 120W 24V 5A		•	3 x 320 - 575 V	450...500V	24 V/ 5 A	22,5 - 29 V DC	•	38 x 130 x 125	2467060000
PRO TOP3 240W 24V 10A		•	3 x 320 - 575 V	450...500V	24 V/ 10 A	22,5 - 29 V DC	•	49 x 130 x 125	2467080000
PRO TOP3 480W 24V 20A		•	3 x 320 - 575 V	450...500V	24 V/ 20 A	22,5 - 29 V DC	•	68 x 130 x 125	2467100000
PRO TOP3 960W 24V 40A		•	3 x 320 - 575 V	450...500V	24 V/ 40 A	22,5 - 29 V DC	•	90 x 130 x 175	2467120000
PRO TOP1 120W 12V 10A	•		85 - 277 V	80 - 410 V	12 V/ 10 A	11...15 V DC	•	35 x 130 x 125	2466910000
PRO TOP1 480W 48V 10A	•		85 - 277 V	80 - 410 V	48 V/ 10 A	45...56 V DC	•	68 x 130 x 125	2467030000
PRO TOP1 960W 48V 20A	•		85 - 277 V	80 - 410 V	48 V/ 20 A	45...56 V DC	•	124 x 130 x 125	2466920000
PRO TOP3 480W 48V 10A		•	3 x 320 - 575 V	450...500V	48 V/ 10 A	45...56 V DC	•	68 x 130 x 125	2467150000
PRO TOP3 960W 48V 20A		•	3 x 320 - 575 V	450...500V	48 V/ 20 A	45...56 V DC	•	90 x 130 x 175	2467170000
PRO TOP1 72W 24V 3A CO	•		85 - 277 V	80 - 410 V	24 V/ 3 A	22,5 - 29 V DC	•	35 x 120 x 125	2466970000
PRO TOP1 120W 24V 5A EX	•		85 - 277 V	80 - 410 V	24 V/ 5 A	22,5 - 29 V DC	•	35 x 130 x 125	2466980000
PRO TOP1 240W 24V 10A EX	•		85 - 277 V	80 - 410 V	24 V/ 10 A	22,5 - 29 V DC	•	39 x 130 x 125	2466990000
PRO TOP1 480W 24V 20A EX	•		85 - 277 V	80 - 410 V	24 V/ 20 A	22,5 - 29 V DC	•	68 x 130 x 125	2467000000
PRO TOP1 960W 24V 40A EX	•		85 - 277 V	80 - 410 V	24 V/ 40 A	22,5 - 29 V DC	•	124 x 130 x 125	2467010000



## Extension: Redundancy, Capacitor, Communication Modules

### Reliably protect sensitive system components

Use our diode and redundancy modules to connect two power supplies and compensate for a device failing. In addition, our capacity module offers power reserves, guaranteeing purposeful and quick triggering of a circuit breaker, for example.

Use our pluggable communication modules for full data transparency and remote control.

Products to increase capabilities of your Power Supply in redundant applications, high output current demand and in communication with controller:

- Capacity module:  
Offers energy reserves, for example to trigger a miniature circuit breaker quickly and efficiently (e.g.: PROeco or PROmax)
- Redundancy modules with Diodes or MOSFET:  
Allows reliable redundant operation for power supplies without MOSFET incorporated (e.g.: PROeco or PROmax)
- Communication modules:  
Connected with PROtop allow access to parameters like Voltage, current, temperature, overvoltages in input, overload in output and operational mode.



**PRO COM CAN OPEN**



**PRO COM IO-LINK**

### Approvals



**PRO DM 20**



**PRO RM 20**



**CP M CAP**

Dimensions			
Type	Reference	Width x Height x Depth (mm)	Part Number
CP M CAP	Capacity module	34 x 130 x 150	1222240000
PRO DM 10	Redundancy module 24 V DC 2 x 10 A	32 x 125 x 125	2486070000
PRO DM 20	Redundancy module 24 V DC 2 x 20 A	32 x 125 x 125	2486080000
PRO RM 10	Redundancy module 24 V DC 2 x 10 A / active load sharing	30 x 130 x 125	2486090000
PRO RM 20	Redundancy module 24 V DC 2 x 20 A / active load sharing	38 x 130 x 125	2486100000
PRO RM 40	Redundancy module 24 V DC 2 x 40 A / active load sharing	52 x 130 x 125	2486110000
PRO COM IO-LINK	Communication module IO-LINK	35 x 74 x 34	2587360000
PRO COM CAN OPEN	Communication module CAN-OPEN	35 x 74 x 34	2467320000

# DC/DC Converters

The compact DC/DC converter provides systems with optimal failure protection for maximum availability.



- 12 VDC and 24 VDC input versions
- Space saving designs starting at 43 mm width
- Approvals include UL508 and CSA Class 1, Div. 2 approvals
- Robust and durable metal housings
- Wide operating temperature range: -25°C (-13°F) to +70°C (158°F)

Options with Power boost up to 600% for 16ms and 24V output:

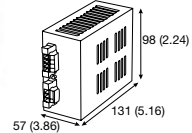
Description	Input Voltage Range	Output Voltage Range	Output Current	Power	Order Number
PRO DCDC 120W 24V 5A	14 - 32 VDC	24 VDC +/- 1%	5A	120W	2001800000
PRO DCDC 240W 24V 10A	14 - 32 VDC	24 VDC +/- 1%	10A	240W	2001810000
PRO DCDC 480W 24V 20A	14 - 32 VDC	24 VDC +/- 1%	20A	480W	2001820000

### Approvals

1 | UL508, CSA Class 1 Div 2 Zone 2



Dimensions mm (in)



DC-DC Converter

Options with other voltages

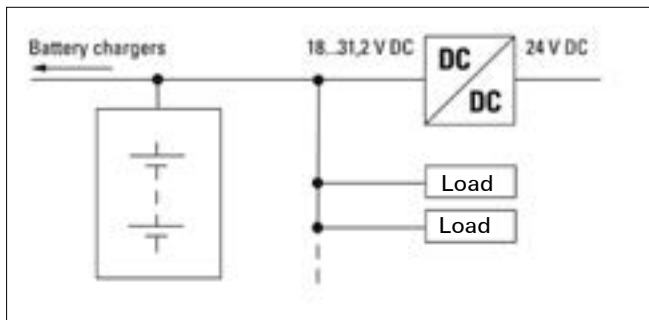
Description	Input Voltage Range	Output Voltage Range	Output Current	Power	Order Number
CP-DCDC 12VDC IN/24VDC, 2A OUT	10.2 - 16 VDC	22 - 24 VDC	2 A	50W	9919371224 <sup>1</sup>
CP-DCDC 12VDC IN/15VDC, 3A OUT	10.2 - 16 VDC	15 VDC	3 A	50W	9919371215 <sup>1</sup>
CP-DCDC 12VDC IN/12VDC, 3A OUT	10.2 - 16 VDC	12 VDC	3 A	50W	9919371212 <sup>1</sup>
CP-DCDC 12VDC IN/ 5VDC, 8A OUT	10.2 - 16 VDC	5 VDC	8 A	50W	9919371205 <sup>1</sup>
CP-DCDC 24VDC IN/24VDC, 2A OUT	18 - 30 VDC	22 - 24 VDC	2 A	50W	9919372424 <sup>1</sup>
CP-DCDC 24VDC IN/15VDC, 3A OUT	18 - 30 VDC	15 VDC	3 A	50W	9919372415 <sup>1</sup>
CP-DCDC 24VDC IN/12VDC, 3A OUT	18 - 30 VDC	12 VDC	3 A	50W	9919372412 <sup>1</sup>
CP-DCDC 24VDC IN/ 5VDC, 8A OUT	18 - 30 VDC	5 VDC	8 A	50W	9919372405 <sup>1</sup>

## Applications

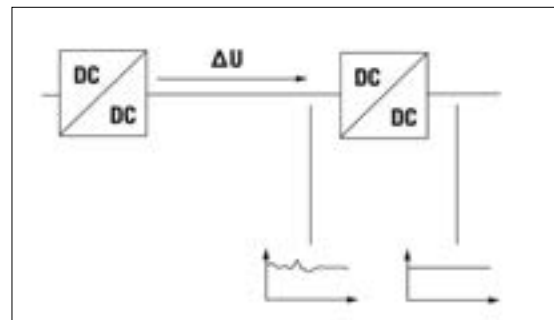
### Stable 24 VDC supply

The DC/DC converter compensates for voltage fluctuations, which may result from unregulated power supplies or voltage drops due to long distances or noise.

### Floating Earth Systems



Class III DC/DC converters are well suited for use in floating-earth systems, such as applications that use emergency-power batteries in parallel operations.



# Uninterruptible Power Supplies (UPS) Buffer and Backup Battery Unit (BBU)

## Secure Energy in Automation

Extend system uptime by providing DC power in the event of an AC power failure. These BBU's and UPS's provide the best security and protection in the event of an AC power interruption including: charging, monitoring, status indication, alarming, all with back-up battery power.

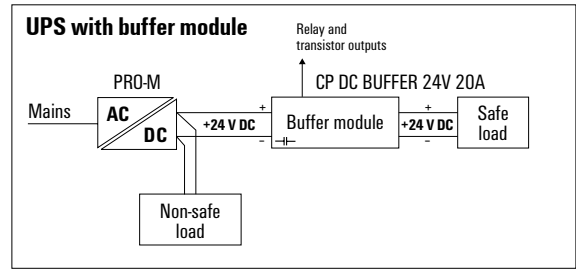
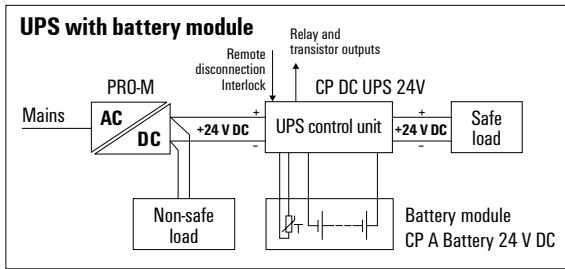


### UPS with battery charging temperature dependent

- Long battery life – temperature compensated charging for maximum battery life
- Protection from short, transient and/or long power failures
- Level indicator for status and error analysis
- Wide power options – modular design allow for load distribution
- Buffer modules: UPS based on incorporated capacitor.
- Manage short time interruptions without battery

Description	Input		Output			Order Number
	DC (V)	DC (V)	Adjustable Range (V)	Rated Current (A)	Power Rating (W)	
CP DC BUFFER 24 V 20 A*	22.5...30	24	24	20	240	1251220000
CP DC UPS 24 V 20A/10 A	20...30	24	+/- 0.3V	20/10	480/240	1370050010
CP DC UPS 24 V 40 A	20...30	24	+/- 0.3V	40.00	960.00	1370040010
CP A BATTERY 24 V DC 1,3 Ah		24		5 A/6 min	1.3 Ah	1406930000
CP A BATTERY 24 V DC 3,4 Ah		24		10 A/11.3 min	3.4 Ah	1251070000
CP A BATTERY 24 V DC 7,2 Ah		24		20 A/11.5 min	7.2 Ah	1251080000
CP A BATTERY 24 V DC 12 Ah		24		20 A/22.7 min	12 Ah	1251090000
CP A BATTERY 24 V DC 17 Ah		24		20 A/34.2 min	17 Ah	1251110000

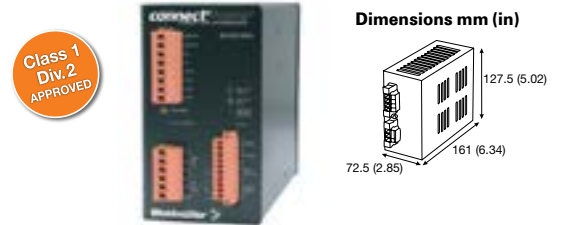
\* CP DC Buffer rated at 250 ms at 20 A, 6 seconds at 1 A



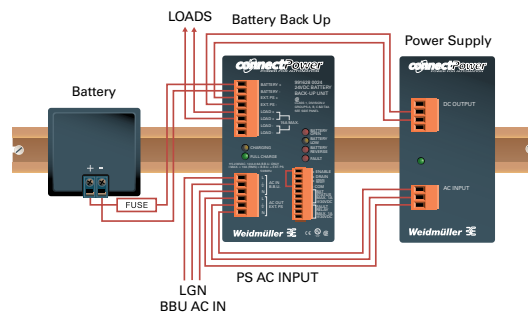
### Battery Back Up Units for 12VDC or Class1 Div2 Applications

- Increase system uptime by providing DC power in the event of an AC power failure
- Extensive monitoring is provided via LEDs and output connections
- DC backup system that actively manages DC battery banks

Description	Input	Order Number
BBU 12 VDC	12 VDC	9916280012
BBU 24 VDC	24 VDC	9916280024



24 VDC Battery Back-Up Unit



# Relays & Solid-State Relays

Electronics



## High-quality and reliable with Klippon® Relay

The optimization of the control cabinet infrastructure is our daily motivation. For this we have built up decades of technical expertise and a broad understanding of the market. With Klippon® Relay we offer high-quality relay modules and solid-state relays meeting all current and future market requirements. Our range impresses with reliable, safe, and durable products. Many other services such as digital data support, switching load consulting, and selection guides to support our customers complement the offer.



# Relays and Solid-State Relays

Weidmüller's TERMSERIES relay family offers complete high-quality relay modules and solid-state relays meeting all current and future market requirements. In a terminal block design these modules are made for high density installations. Additional features include a distinct status display through an LED that completely illuminates the ejector and a unique multi-voltage input from 24V to 230V UC for an exceptional broad range of applications. Many other services such as digital data support, switching load consulting, and selection guides to support our customers complement the offer.



## TERMSeries Relays

- Features pluggable relays
- 1CO and 2CO versions with same profile for easy cross-connection
- Pluggable cross-connections on 5 levels to minimize wiring
- Compact design with 6.4 mm for 1CO versions and 12.8 mm for 2CO versions
- Distinctive status display with LED that completely illuminates the ejector
- Unique Multi-voltage input from 24V up to 230V UC
- Choice of screw clamp, tension clamp and PUSH IN technology
- cULus listed

### 1CO versions

Type	Description	Order Number
TRS 5VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	1122740000
TRS 12VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	1122750000
TRS 24VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	1122770000
TRS 24VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122780000
TRS 48VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122790000
TRS 60VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122800000
TRS 120VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122810000
TRS 230VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122820000
TRS 24-230VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24...230 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122850000
TRZ 5VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 6 A, Tension-clamp connection	1122860000
TRZ 12VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, Tension-clamp connection	1122870000
TRZ 24VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, Tension-clamp connection	1122880000
TRZ 24VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122890000
TRZ 48VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122900000
TRZ 60VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122910000
TRZ 120VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122920000
TRZ 230VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122930000
TRZ 24-230VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24...230 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122970000
TRP 5VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN connection	2614830000
TRP 12VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN connection	2618180000
TRP 24VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN connection	2618000000
TRP 24VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618220000
TRP 48VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618240000
TRP 60VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618140000
TRP 120VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618010000
TRP 230VUC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618050000



Screw Clamp



Tension Clamp



PUSH IN



## TERMSeries Relays- continued

### 1CO RC versions for protection against leakage currents on the control side

Type	Description	Order Number
TRS 120VAC RC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122830000
TRS 230VAC RC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1122840000
TRZ 120VAC RC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122940000
TRZ 230VAC RC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1122950000
TRP 120VAC RC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618150000
TRP 230VAC RC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618200000



Screw Clamp



Tension Clamp



PUSH IN

### 1CO versions with hard gold-plated contacts

Type	Description	Order Number
TRS 5VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	1122980000
TRS 12VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	1122990000
TRS 24VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	1123000000
TRS 24VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1123010000
TRS 48VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1123020000
TRS 60VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1123030000
TRS 120VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1123040000
TRS 230VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 230 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1123050000
TRS 24-230VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24...230 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	1123090000
TRZ 5VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 6 A, Tension-clamp connection	1123100000
TRZ 12VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, Tension-clamp connection	1123110000
TRZ 24VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, Tension-clamp connection	1123120000
TRZ 24VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1123130000
TRZ 48VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1123140000
TRZ 60VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1123150000
TRZ 120VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1123170000
TRZ 230VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 230 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1123180000
TRZ 24-230VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24...230 V UC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection	1123210000
TRP 5VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN connection	2618060000
TRP 12VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN connection	2618120000
TRP 24VDC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN connection	2618110000
TRP 24VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618160000
TRP 48VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618170000
TRP 60VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618070000
TRP 120VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618080000
TRP 230VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5 $\mu$ m Au, Rated control voltage: 230 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN connection	2618210000



Screw Clamp



Tension Clamp



PUSH IN

## TERMSeries Relays- continued

### 1CO RC versions for protection against leakage currents on the control side with hard gold-plated contacts

Type	Description	Order Number
TRS 120VAC RC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection	1123070000
TRS 230VAC RC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Screw connection	1123080000
TRZ 120VAC RC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Tension-clamp connection	1123190000
TRZ 230VAC RC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Tension-clamp connection	1123200000
TRP 120VAC RC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, PUSH IN connection	2618030000
TRP 230VUC 1CO AU	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±10%, Continuous current: 6 A, PUSH IN connection	2618210000



Screw Clamp



Tension Clamp



PUSH IN

### 1CO versions

#### Hazardous Area Approvals (UL Class 1, Division 2) cULUS

#### RC version for protection against leakage currents on the control side



Type	Description	Order Number
TRS 12 VDC 1CO C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Screw connection	1984560000
TRS 24 VDC 1CO C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection	1984570000
TRS 24 VUC 1CO C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, Screw connection	1984580000
TRS 120 VAC RC 1CO C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection	1984590000
TRS 230 VAC RC 1CO C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V AC ±10 %, Continuous current: 6 A, Screw connection	1984600000
TRS 24-230 VUC 1CO C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection	1984610000



Screw Clamp



### 1CO versions

#### Hazardous Area Approvals (UL Class 1, Division 2) cULUS with hard gold-plated contacts

#### RC version for protection against leakage currents on the control side

Type	Description	Order Number
TRS 12 VDC 1 COAU C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 6 A, Screw connection	1984620000
TRS 24 VDC 1 COAU C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, Screw connection	1984630000
TRS 120 VAC RC 1 COAU C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 6 A, Screw connection	1984640000
TRS 24-230 VUC 1 COAU C1D2	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 6 A, Screw connection	1984650000



Screw Clamp

## TERMSeries Relays- continued

### 2CO versions

Type	Description	Order Number
TRS 5VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 8 A, Screw connection	1123470000
TRS 12VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 8 A, Screw connection	1123480000
TRS 24VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 8 A, Screw connection	1123490000
TRS 24VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 8 A, Screw connection	1123500000
TRS 48VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 8 A, Screw connection	1123510000
TRS 60VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 8 A, Screw connection	1123520000
TRS 120VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 8 A, Screw connection	1123530000
TRS 230VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V UC $\pm 5\%$ , Continuous current: 8 A, Screw connection	1123540000
TRS 24-230VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24...230 V UC $\pm 10\%$ , Continuous current: 8 A, Screw connection	1123580000
TRZ 5VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 8 A, Tension-clamp connection	1123590000
TRZ 12VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 8 A, Tension-clamp connection	1123600000
TRZ 24VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 8 A, Tension-clamp connection	1123610000
TRZ 24VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 8 A, Tension-clamp connection	1123620000
TRZ 48VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 8 A, Tension-clamp connection	1123630000
TRZ 60VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 8 A, Tension-clamp connection	1123640000
TRZ 120VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 8 A, Tension-clamp connection	1123650000
TRZ 230VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V UC $\pm 5\%$ , Continuous current: 8 A, Tension-clamp connection	1123670000
TRZ 24-230VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24...230 V UC $\pm 10\%$ , Continuous current: 8 A, Tension-clamp connection	1123700000
TRP 5VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 5 V DC $\pm 20\%$ , Continuous current: 8 A, PUSH IN connection	2614840000
TRP 12VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC $\pm 20\%$ , Continuous current: 8 A, PUSH IN connection	2618550000
TRP 24VDC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 8 A, PUSH IN connection	2618400000
TRP 24VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 8 A, PUSH IN connection	2618320000
TRP 48VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 8 A, PUSH IN connection	2618520000
TRP 60VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 60 V UC $\pm 10\%$ , Continuous current: 8 A, PUSH IN connection	2618290000
TRP 120VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V UC $\pm 10\%$ , Continuous current: 8 A, PUSH IN connection	2618570000
TRP 230VUC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V UC $\pm 5\%$ , Continuous current: 8 A, PUSH IN connection	2618440000



Screw Clamp



Tension Clamp



PUSH IN



Screw Clamp



Tension Clamp



PUSH IN

### 2CO RC versions for protection against leakage currents on the control side

Type	Description	Order Number
TRS 120VAC RC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V AC $\pm 10\%$ , Continuous current: 8 A, Screw connection	1123550000
TRS 230VAC RC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC $\pm 5\%$ , Continuous current: 8 A, Screw connection	1123570000
TRZ 120VAC RC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V AC $\pm 10\%$ , Continuous current: 8 A, Tension-clamp connection	1123680000
TRZ 230VAC RC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC $\pm 5\%$ , Continuous current: 8 A, Tension-clamp connection	1123690000
TRP 120VAC RC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 120 V AC $\pm 10\%$ , Continuous current: 8 A, PUSH IN connection	2618470000
TRP 230VAC RC 2CO	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC $\pm 5\%$ , Continuous current: 8 A, PUSH IN connection	2618330000

## TERMSeries Relays- continued

### 2CO versions with hard gold plated contacts

Type	Description	Order Number
TRS 5VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, Screw connection	1123710000
TRS 12VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, Screw connection	1123720000
TRS 24VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, Screw connection	1123730000
TRS 24VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, Screw connection	1123740000
TRS 48VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Screw connection	1123750000
TRS 60VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, Screw connection	1123770000
TRS 120VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Screw connection	1123780000
TRS 230VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, Screw connection	1123790000
TRS 24-230VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 8 A, Screw connection	1123820000
TRZ 5VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection	1123830000
TRZ 12VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection	1123840000
TRZ 24VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, Tension-clamp connection	1123850000
TRZ 24VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection	1123870000
TRZ 48VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection	1123880000
TRZ 60VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection	1123890000
TRZ 120VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection	1123900000
TRZ 230VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, Tension-clamp connection	1123910000
TRZ 24-230VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24...230 V UC ±10 %, Continuous current: 8 A, Tension-clamp connection	1123920000
TRP 5VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 5 V DC ±20 %, Continuous current: 8 A, PUSH IN	2618580000
TRP 12VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 12 V DC ±20 %, Continuous current: 8 A, PUSH IN	2618310000
TRP 24VDC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V DC ±20 %, Continuous current: 8 A, PUSH IN	2618530000
TRP 24VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 24 V UC ±10 %, Continuous current: 8 A, PUSH IN	2618540000
TRP 48VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 48 V UC ±10 %, Continuous current: 8 A, PUSH IN	2618560000
TRP 60VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 60 V UC ±10 %, Continuous current: 8 A, PUSH IN	2618360000
TRP 120VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V UC ±10 %, Continuous current: 8 A, PUSH IN	2618590000
TRP 230VUC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V UC ±5 %, Continuous current: 8 A, PUSH IN	2618300000



Screw Clamp



Tension Clamp



PUSH IN



Screw Clamp



Tension Clamp



PUSH IN

### 2CO RC versions for protection against leakage currents on the control side with hard gold-plated contacts

Type	Description	Order Number
TRS 120VAC RC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, Screw connection	1123800000
TRS 230VAC RC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, Screw connection	1123810000
TRZ 120VAC RC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, Tension-clamp connection	1123920000
TRZ 230VAC RC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, Tension-clamp connection	1123930000
TRP 120VAC RC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 120 V AC ±10 %, Continuous current: 8 A, PUSH IN	2618490000
TRP 230VAC RC 2CO AU	TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi 5µm Au, Rated control voltage: 230 V AC ±5 %, Continuous current: 8 A, PUSH IN	2618500000



**TERMSeries Force Guided – Relay modules with positively driven contacts**

Type	Description	Order Number
TRS 24VUC 2CO FG	TERMSERIES, Relay module with positively driven contacts, Number of contacts: 2, CO contact positively-driven (EN 61810-3 type B) AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection	2706290000
TRP 24VUC 2CO FG	TERMSERIES, Relay module with positively driven contacts, Number of contacts: 2, CO contact positively-driven (EN 61810-3 type B) AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, PUSH IN	2706430000
RCH424024FG	Spare Relay for 24VUC FG versions: TERMSERIES, Relay with positively driven contacts, Number of contacts: 2, CO contact positively-driven (EN 61810-3 type B) AgNi, Rated control voltage: 24 V DC, Continuous current: 6 A	2723360000



Screw Clamp



PUSH IN

**TERMSeries Timer Relays**

Type	Description	Order Number
TRS T 24VDC 1CO M3	TERMSERIES, Multifunction timing relay, Number of contacts: 1, CO contact, AgSnO, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, Screw connection	2639560000
TRP T 24VDC 1CO M3	TERMSERIES, Multifunction timing relay, Number of contacts: 1, CO contact, AgSnO, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 6 A, PUSH IN	2639730000
TRP T 24VDC 1CO M3 EMPTY	Spare base for Screw connection timer TRS: TERMSERIES, Multifunction timing relay, Empty socket, Number of contacts: 1, CO contact, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 10 A, PUSH IN	2639740000
TRS T 24VDC 1CO M3 EMPTY	Spare base for PUSH IN connection timer TRP: TERMSERIES, Multifunction timing relay, Empty socket, Number of contacts: 1, CO contact, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 10 A, Screw connection	2639720000



Screw Clamp



PUSH IN

**TERMSeries Relays Accessories****Cross-connectors / Isolation Plates / Supply terminals**

Type	Description	Order Number
TCC 6.4/2 BL	For use with 1CO versions: 2 pole cross connection, 6.4 mm, Blue	2556430000
TCC 6.4/2 OR	For use with 1CO versions: 2 pole cross connection, 6.4 mm, Orange	2556350000
TCC 6.4/2 RD	For use with 1CO versions: 2 pole cross connection, 6.4 mm, Red	2556390000
TCC 6.4/2 BK	For use with 1CO versions: 2 pole cross connection, 6.4 mm, Black	2556470000
TCC 6.4/10 BL	For use with 1CO versions: 10 pole cross connection, 6.4 mm, Blue	2556440000
TCC 6.4/10 OR	For use with 1CO versions: 10 pole cross connection, 6.4 mm, Orange	2556360000
TCC 6.4/10 RD	For use with 1CO versions: 10 pole cross connection, 6.4 mm, Red	2556400000
TCC 6.4/10 BK	For use with 1CO versions: 10 pole cross connection, 6.4 mm, Black	2556480000
TCC 6.4/51 BL	For use with 1CO versions: 51 pole cross connection, 6.4 mm, Blue	2556450000
TCC 6.4/51 OR	For use with 1CO versions: 51 pole cross connection, 6.4 mm, Orange	2556370000
TCC 6.4/51 RD	For use with 1CO versions: 51 pole cross connection, 6.4 mm, Red	2556410000
TCC 6.4/51 BK	For use with 1CO versions: 51 pole cross connection, 6.4 mm, Black	2556490000
TCC 12.8/26 BL	For use with 2CO versions: 26 pole cross connection, 6.4 mm, Blue	2556460000
TCC 12.8/26 OR	For use with 2CO versions: 26 pole cross connection, 6.4 mm, Orange	2556380000
TCC 12.8/26 RD	For use with 2CO versions: 26 pole cross connection, 6.4 mm, Red	2556420000
TCC 12.8/26 BK	For use with 2CO versions: 26 pole cross connection, 6.4 mm, Black	2556500000
TXS SUPPLY	For use with 1 or 2 CO versions: TERMSERIES, Supply module, Number of contacts: 5, Continuous current: 10 A, Screw connection	1240780000
TXZ SUPPLY	For use with 1 or 2 CO versions: TERMSERIES, Supply module, Number of contacts: 5, Continuous current: 10 A, Tension-clamp connection	1240790000
TXP SUPPLY	For use with 1 or 2 CO versions: TERMSERIES, Supply module, Number of contacts: 5, Continuous current: 10 A, PUSH IN	2618940000
TW TXS/TXZ R3.2	For use with 1 or 2 CO versions: TERMSERIES, Isolation plate, 3.2 mm pitch	1240800000



Cross-connectors (Jumpers)



Isolation Plate



Supply Terminal



## PLC/ I/O Interface Adapters (TIA'S)

- Can be used in positive switching logic and negative switching logic with easy switch
- Connect 8 signal paths with one cable
- Easy PUSH IN design for simple supply voltage bridging
- With reverse polarity protection
- Versions with 8 or 16 signals supported

Type	Supply Connection Type	No. of Signal Paths	Data Signal Connector Type	Order Number
TIA F10	PUSH IN	8	For use with 1 CO versions: 10 pole plug (DIN EN 60603-13), long locking lever, Number of signal paths: 8, Rated voltage : 24 V DC, Rated current (per signal path): 125 mA	<b>1463520000</b>
TIA SUBD15S	PUSH IN	8	For use with 1 CO versions: Sub D, 15 pole (DIN 41652 / IEC 60807), Number of signal paths: 8, Rated voltage : 24 V DC, Rated current (per signal path): 125 mA	<b>1463530000</b>
TIAL F10	PUSH IN	16	For use with 2 CO versions: 10 pole plug (DIN EN 60603-13), long locking lever, Number of signal paths: 8, Rated voltage : 24 V DC, Rated current (per signal path): 125 mA	<b>1463540000</b>
TIAL F20	PUSH IN	16	For use with 2 CO versions: 20 pole plug (DIN EN 60603-13), long locking lever, Number of signal paths: 16, Rated voltage : 24 V DC, Rated current (per signal path): 60 mA	<b>1463550000</b>



TIA F10

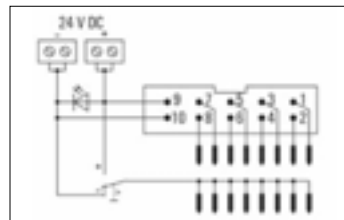


TIAL F20

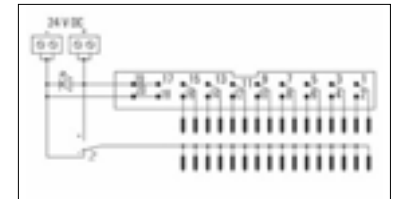
## Cables and Quick Connectors for TERMSeries Interface Adapters (TIA's)

Designed for quick and simple connections between TERMSeries relay assemblies and any DCS, PLC or terminal blocks.

- All cables are pre-assembled
- cULus cables and connectors
- 22 AWG cable with shielding



Wiring diagram for TIAL F20 and TIA SUBD15S



Wiring diagram for TIAL F20

### Use with TIAL F10

Type	Connection Type	Length Meters	Order Number
SP-CBL-TIAU-10-10 0.5M	10 pin to 10 pin	0.5	<b>6720000960</b>
SP-CBL-TIAU-10-10 1.0M	10 pin to 10 pin	1.0	<b>6720000961</b>
SP-CBL-TIAU-10-10 2.0M	10 pin to 10 pin	2.0	<b>6720000962</b>
SP-CBL-TIAU-10-10 3.0M	10 pin to 10 pin	3.0	<b>6720000963</b>
SP-CBL-TIAU-10-10 5.0M	10 pin to 10 pin	5.0	<b>6720000964</b>

Type	Connection Type	Length Meters	Order Number
SP-CBL-TIAU-10-F 0.5M	10 pin to flying leads	0.5	<b>6720000965</b>
SP-CBL-TIAU-10-F 1.0M	10 pin to flying leads	1.0	<b>6720000966</b>
SP-CBL-TIAU-10-F 2.0M	10 pin to flying leads	2.0	<b>6720000967</b>
SP-CBL-TIAU-10-F 3.0M	10 pin to flying leads	3.0	<b>6720000968</b>
SP-CBL-TIAU-10-F 5.0M	10 pin to flying leads	5.0	<b>6720000969</b>

### Use with TIAL F20

Type	Connection Type	Length Meters	Order Number
SP-CBL-TIAU-20-20 0.5M	20 pin to 20 pin	0.5	<b>6720000945</b>
SP-CBL-TIAU-20-20 1.0M	20 pin to 20 pin	1.0	<b>6720000946</b>
SP-CBL-TIAU-20-20 2.0M	20 pin to 20 pin	2.0	<b>6720000947</b>
SP-CBL-TIAU-20-20 3.0M	20 pin to 20 pin	3.0	<b>6720000948</b>
SP-CBL-TIAU-20-20 5.0M	20 pin to 20 pin	5.0	<b>6720000949</b>

Type	Connection Type	Length Meters	Order Number
SP-CBL-TIAU-20-F 0.5M	20 pin to flying leads	0.5	<b>6720000950</b>
SP-CBL-TIAU-20-F 1.0M	20 pin to flying leads	1.0	<b>6720000951</b>
SP-CBL-TIAU-20-F 2.0M	20 pin to flying leads	2.0	<b>6720000952</b>
SP-CBL-TIAU-20-F 3.0M	20 pin to flying leads	3.0	<b>6720000953</b>
SP-CBL-TIAU-20-F 5.0M	20 pin to flying leads	5.0	<b>6720000954</b>

## Termseries Solid State Relays – Optocoupler Modules

### TERMSeries Opto Modules

- Features pluggable Opto Modules
- Compact design with 6.4 mm or 12.8 mm width
- Distinctive status display with LED that completely illuminates the ejector
- Unique Multi-voltage input option from 24V up to 230V UC
- Choice of screw clamp and tension clamp
- Pluggable cross-connections on 5 levels to minimize wiring
- cULus listed



### TERMSeries Opto Modules

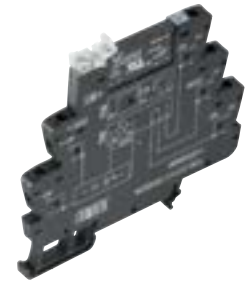
Type	Description	Order Number
TOS 5VDC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126920000
TOS 12VDC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126930000
TOS 24VDC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126940000
TOS 24VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126950000
TOS 48VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126960000
TOS 60VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126970000
TOS 120VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126980000
TOS 230VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1126990000
TOS 24-230VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1127020000
TOS 5VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127390000
TOS 12VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127400000
TOS 24VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127410000
TOS 24VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127420000
TOS 48VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127430000
TOS 60VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127440000
TOS 120VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127450000
TOS 230VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V UC $\pm 5\%$ / $-10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127470000
TOS 24-230VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127500000
TOS 5VDC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127140000
TOS 12VDC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127150000
TOS 24VDC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127170000
TOS 24VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127180000
TOS 48VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127190000



Screw Clamp

## TERMSeries Opto Modules - continued

Type	Description	Order Number
TOS 60VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127200000
TOS 120VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127210000
TOS 230VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127220000
TOS 24-230VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127250000
TOS 24VDC 230VAC 1A	TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Screw connection	1127680000
TOS 24-230VUC 230VAC 1A	TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Screw connection	1127690000
TOS 24VDC 24VDC 3.5A	TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Screw connection	1127630000
TOS 24-230VUC 24VDC 3.5A	TERMSERIES. 12.8mm. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Screw connection	1127640000
TOZ 5VDC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127030000
TOZ 12VDC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127040000
TOZ 24VDC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127050000
TOZ 24VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127060000
TOZ 48VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127070000
TOZ 60VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127080000
TOZ 120VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127090000
TOZ 230VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127100000
TOZ 24-230VUC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127130000
TOZ 5VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127510000
TOZ 12VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127520000
TOZ 24VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127530000
TOZ 24VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127540000
TOZ 48VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127550000
TOZ 60VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127570000
TOZ 120VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127580000
TOZ 230VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V UC $\pm 5\%$ / $-10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127590000
TOZ 24-230VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127620000



Screw Clamp



Tension Clamp

## TERMSeries Opto Modules - continued

Type	Description	Order Number
TOZ 5VDC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127270000
TOZ 12VDC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127280000
TOZ 24VDC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127290000
TOZ 24VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127300000
TOZ 48VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127310000
TOZ 60VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127320000
TOZ 120VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127330000
TOZ 230VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127340000
TOZ 24-230VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127380000
TOZ 24VDC 230VAC 1A	TERMSERIES, solid-state relay, 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Tension-clamp connection	1127700000
TOZ 24-230VUC 230VAC 1A	TERMSERIES, solid-state relay, 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 12...275 V AC. Continuous current: 1 A. Tension-clamp connection	1127710000
TOZ 24VDC 24VDC 3.5A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Tension-clamp connection	1127650000
TOZ 24-230VUC 24VDC 3.5A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24...230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. Tension-clamp connection	1127670000
TOP 5VDC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2614860000
TOP 12VDC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618600000
TOP 24VDC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618790000
TOP 24VUC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618640000
TOP 48VUC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618710000
TOP 60VUC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2614880000
TOP 120VUC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618680000
TOP 230VUC 48VDC 0.1A	TERMSERIES, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 230 V UC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618690000
TOP 5VDC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618810000
TOP 12VDC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618820000
TOP 24VDC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618720000
TOP 24VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618730000
TOP 48VUC 24VDC 2A	TERMSERIES, solid-state relay, 1 NO contact (MOS-FET). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618760000



Tension Clamp



PUSH IN



## TERMSeries Opto Modules - continued

Type	Description	Order Number
TOP 60VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618970000
TOP 120VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618770000
TOP 230VUC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V UC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618800000
TOP 5VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 5 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2614850000
TOP 12VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 12 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618380000
TOP 24VDC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618420000
TOP 24VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 24 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618350000
TOP 48VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 48 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618460000
TOP 60VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 60 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618370000
TOP 120VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V UC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618480000
TOP 230VUC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V UC $\pm 5\%$ / $-10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618450000
TOP 24VDC 24VDC 3.5A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 3.5 A. PUSH IN	2618700000
TOP 24VDC 24VDC 5A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 5 A. PUSH IN	2618840000



PUSH IN



Screw Clamp



Tension Clamp



PUSH IN

### Actuator version Solid State Relay 3 to 33 VDC 2A output in Screw, Tension, and PUSH IN Technology

Type	Description	Order Number
TOS 24VDC ACT	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1391680000
TOZ 24VDC ACT	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1391690000
TOP 24VDC ACT	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618750000



**RC version for protection against leakage current on the control side**

Type	Description	Order Number
TOS 120VAC RC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1127000000
TOS 230VAC RC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V AC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Screw connection	1127010000
TOS 120VAC RC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127480000
TOS 230VAC RC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V AC $+5\% / -10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Screw connection	1127490000
TOS 120VAC RC 24VDC 2 A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127230000
TOS 230VAC RC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V AC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Screw connection	1127240000
TOZ 120VAC RC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127110000
TOZ 230VAC RC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V AC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. Tension-clamp connection	1127120000
TOZ 120VAC RC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127600000
TOZ 230VAC RC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V AC $+5\% / -10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. Tension-clamp connection	1127610000
TOZ 120VAC RC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127350000
TOZ 230VAC RC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V AC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. Tension-clamp connection	1127370000
TOP 120VAC RC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618650000
TOP 230VAC RC 48VDC 0.1A	TERMSERIES. solid-state relay. 1 NO contact (Bipolar transistor). Rated control voltage: 230 V AC $\pm 10\%$ . Rated switching voltage: 0...48 V DC. Continuous current: 100 mA. PUSH IN	2618620000
TOP 120VAC RC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618660000
TOP 230VAC RC 24VDC 2A	TERMSERIES. solid-state relay. 1 NO contact (MOS-FET). Rated control voltage: 230 V AC $\pm 10\%$ . Rated switching voltage: 3...33 V DC. Continuous current: 2 A. PUSH IN	2618670000
TOP 120VAC RC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 120 V AC $\pm 10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618390000
TOP 230VAC RC 230VAC 1A	TERMSERIES. solid-state relay. 1 NO contact (Triac (zero-cross switch)). Rated control voltage: 230 V AC $+5\% / -10\%$ . Rated switching voltage: 24...240 V AC. Continuous current: 1 A. PUSH IN	2618430000



Screw Clamp



Tension Clamp



PUSH IN

## Termseries Solid State Relays – Optocoupler Modules

### TERMOPTO Series

- Electrical isolation in terminal block format
- Space saving design with 6 mm width
- Integrated LEDs for clear status indication
- Wear-free semiconductor switch with extensive protective circuitry
- Choice of screw or PUSH IN terminals
- cULus listed

#### Typical Applications

The TERMOPTO solid-state relay is for use in industrial applications where electrical isolation and signal conditioning without switching amplification is sufficient.



TERMOPTO Series

#### DC Output Versions 100mA, 5 to 48 VDC

Type	Connection Type	Rated Control Voltage	Rated Current	Order Number
TOS 5VDC/48VDC 0.1A	Screw	5 VDC	100mA	8950700000
TOP 5VDC/48VDC 0.1A	PUSH IN	5 VDC	100mA	8950760000
TOS 12VDC/48VDC 0.1A	Screw	12 VDC	100mA	8950710000
TOP 12VDC/48VDC 0.1A	PUSH IN	12 VDC	100mA	8950770000
TOS 24VDC/48VDC 0.1A	Screw	24 VDC	100mA	8950720000
TOP 24VDC/48VDC 0.1A	PUSH IN	24 VDC	100mA	8950780000
TOS 48-60VDC/48VDC 0.1A	Screw	48...60 VDC	100mA	8950730000
TOP 48-60VDC/48VDC 0.1A	PUSH IN	48...60 VDC	100mA	8950790000
TOS 110VDC/48VDC 0.1A	Screw	110 VDC	100mA	8950740000
TOP 110VDC/48VDC 0.1A	PUSH IN	110 VDC	100mA	8950800000
TOS 220VDC/48VDC 0.1A	Screw	220 VDC	100mA	8950750000
TOP 220VDC/48VDC 0.1A	PUSH IN	220 VDC	100mA	8950810000
TOS 24VAC/48VDC 0.1A	Screw	24 VAC	100mA	8950820000
TOP 24VAC/48VDC 0.1A	PUSH IN	24 VAC	100mA	8950860000
TOS 48-60VAC/48VDC 0.1A	Screw	48...60 VAC	100mA	8950830000
TOP 48-60VAC/48VDC 0.1A	PUSH IN	48...60 VAC	100mA	8950870000
TOS 120VAC/48VDC 0.1A	Screw	120 VAC	100mA	8950840000
TOP 120VAC/48VDC 0.1A	PUSH IN	120 VAC	100mA	8950880000
TOS 230VAC/48VDC 0.1A	Screw	230 VAC	100mA	8950850000
TOP 230VAC/48VDC 0.1A	PUSH IN	230 VAC	100mA	8950890000



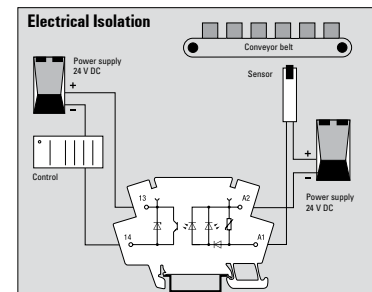
Screw Clamp

#### DC Output Versions 500mA, 5 to 48 VDC

Type	Connection Type	Rated Control Voltage	Rated Current	Order Number
TOS 5VDC/48VDC 0.5A	Screw	5 VDC	500mA	8950900000
TOP 5VDC/48VDC 0.5A	PUSH IN	5 VDC	500mA	8950960000
TOS 12VDC/48VDC 0.5A	Screw	12 VDC	500mA	8950910000
TOP 12VDC/48VDC 0.5A	PUSH IN	12 VDC	500mA	8950970000
TOS 24VDC/48VDC 0.5A	Screw	24 VDC	500mA	8950920000
TOP 24VDC/48VDC 0.5A	PUSH IN	24 VDC	500mA	8950980000
TOS 48-60VDC/48VDC 0.5A	Screw	48...60 VDC	500mA	8950930000
TOP 48-60VDC/48VDC 0.5A	PUSH IN	48...60 VDC	500mA	8950990000
TOS 110VDC/48VDC 0.5A	Screw	110 VDC	500mA	8950940000
TOP 110VDC/48VDC 0.5A	PUSH IN	110 VDC	500mA	8951000000
TOS 220VDC/48VDC 0.5A	Screw	220 VDC	500mA	8950950000
TOP 220VDC/48VDC 0.5A	PUSH IN	220 VDC	500mA	8951010000
TOS 24VAC/48VDC 0.5A	Screw	24 VAC	500mA	8951020000
TOP 24VAC/48VDC 0.5A	PUSH IN	24 VAC	500mA	8951060000
TOS 48-60VAC/48VDC 0.5A	Screw	48...60 VAC	500mA	8951030000
TOP 48-60VAC/48VDC 0.5A	PUSH IN	48...60 VAC	500mA	8951070000
TOS 120VAC/48VDC 0.5A	Screw	120 VAC	500mA	8951040000
TOP 120VAC/48VDC 0.5A	PUSH IN	120 VAC	500mA	8951080000
TOS 230VAC/48VDC 0.5A	Screw	230 VAC	500mA	8951050000
TOP 230VAC/48VDC 0.5A	PUSH IN	230 VAC	500mA	8951090000



PUSH IN



DC Output Version

## TERMOPTO Series - continued

### AC Output Versions 100mA, 24 to 230 VAC

Type	Connection Type	Rated Control Voltage	Rated Current	Order Number
TOS 5VDC/230VAC 0.1A	Screw	5 VDC	100mA	8951100000
TOP 5VDC/230VAC 0.1A	PUSH IN	5 VDC	100mA	8951160000
TOS 12VDC/230VAC 0.1A	Screw	12 VDC	100mA	8951110000
TOP 12VDC/230VAC 0.1A	PUSH IN	12 VDC	100mA	8951170000
TOS 24VDC/230VAC 0.1A	Screw	24 VDC	100mA	8951120000
TOP 24VDC/230VAC 0.1A	PUSH IN	24 VDC	100mA	8951180000
TOS 48-60VDC/230VAC 0.1A	Screw	48...60 VDC	100mA	8951130000
TOP 48-60VDC/230VAC 0.1A	PUSH IN	48...60 VDC	100mA	8951190000
TOS 110VDC/230VAC 0.1A	Screw	110 VDC	100mA	8951140000
TOP 110VDC/230VAC 0.1A	PUSH IN	110 VDC	100mA	8951200000
TOS 220VDC/230VAC 0.1A	Screw	220 VDC	100mA	8951150000
TOP 220VDC/230VAC 0.1A	PUSH IN	220 VDC	100mA	8951210000
TOS 24VAC/230VAC 0.1A	Screw	24 VAC	100mA	8951220000
TOP 24VAC/230VAC 0.1A	PUSH IN	24 VAC	100mA	8951260000
TOS 48-60VAC/230VAC 0.1A	Screw	48...60 VAC	100mA	8951230000
TOP 48-60VAC/230VAC 0.1A	PUSH IN	48...60 VAC	100mA	8951270000
TOS 120VAC/230VAC 0.1A	Screw	120 VAC	100mA	8951240000
TOP 120VAC/230VAC 0.1A	PUSH IN	120 VAC	100mA	8951280000
TOS 230VAC/230VAC 0.1A	Screw	230 VAC	100mA	8951250000
TOP 230VAC/230VAC 0.1A	PUSH IN	230 VAC	100mA	8951290000



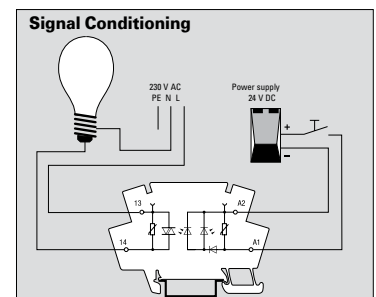
Screw Clamp



PUSH IN

### AC Output Versions 4A, 3 to 33 VDC

Type	Connection Type	Rated Control Voltage	Rated Current	Order Number
TOS 24VDC/24VDC 4A	Screw	24 VDC	4A	1275100000
TOP 24VDC/24VDC 4A	PUSH-IN	24 VDC	4A	1254880000



AC Output Version

## TERMOPTO ACCESSORIES

### Cross-connectors/Screwdriver/Marker

Type	Description	Order Number
ZQV 4N/2 GE	Yellow, Accessories, 2 pole, Cross-connector, 32 A	1758250000
ZQV 4N/2 BL	Blue, Accessories, 2 pole, Cross-connector, 32 A	1793960000
ZQV 4N/2 RT	Red, Accessories, 2 pole, Cross-connector, 32 A	1793950000
ZQV 4N/2 SW	Black, Accessories, 2 pole, Cross-connector, 32 A	1793970000
ZQV 4N/10 GE	Yellow, Accessories, 10 pole, Cross-connector, 32 A	1758260000
ZQV 4N/10 BL	Blue, Accessories, 10 pole, Cross-connector, 32 A	1794050000
ZQV 4N/10 RT	Red, Accessories, 10 pole, Cross-connector, 32 A	1794040000
ZQV 4N/10 SW	Black, Accessories, 10 pole, Cross-connector, 32 A	1794060000
ZQV 4N/20 GE	Yellow, Accessories, 20 pole, Cross-connector, 32 A	1909020000
ZQV 4N/20 BL	Blue, Accessories, 20 pole, Cross-connector, 32 A	1909100000
ZQV 4N/20 RT	Red, Accessories, 20 pole, Cross-connector, 32 A	1909150000
ZQV 4N/20 SW	Black, Accessories, 20 pole, Cross-connector, 32 A	1909120000



## MICROOPTO Series

### Features:

- Space saving 6.1 mm wide design
- Plug-in standard ZQV 4N cross-connection
- Suitable for labelling with the MultiCard system
- Suitable for mounting on TS35 rail
- Housing material made of WEMID (higher thermal stability in comparison with polyamide)
- cULus listed



### MICROOPTO – For special loads such as solenoids, actuators, and high inductive loads up to 300VDC

Type	Description	Order Number
MOS 24VDC/5-33VDC 10A	MICROOPTO SOLENOID, solid-state relay, 1 NO contact (POWER MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 5...33 V DC. Continuous current: 10 A. Screw connection	<b>8937940000</b>
MOS 24VDC/8-30VDC 2A	MICROOPTO, solid-state relay, 1 NO contact (Intelligent POWER MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 8...30 V DC. Continuous current: 2 A. Screw connection	<b>8937970000</b>
MOS 24VDC/12-300VDC 1A	MICROOPTO, solid-state relay, 1 NO contact (POWER MOS-FET). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 12...300 V DC. Continuous current: 1 A. Screw connection	<b>8937830000</b>

### MICROOPTO – For high switching frequencies up to 100kHz

Type	Description	Order Number
MOS 12-28VDC 100KHZ	MICROOPTO, solid-state relay, 1 NO contact (Transistor). Rated control voltage: 12 V DC...28 V DC. Rated switching voltage: 19.6...28.8 V DC. Continuous current: 50 mA. Screw connection	<b>8937990000</b>

### MICROOPTO – For adjusting sensitive TTL signals to the typical voltage level of 24VDC

Type	Description	Order Number
MOS 5VTTL/24VDC 0.1A	MICROOPTO, solid-state relay, 1 NO contact (Bipolar transistor). Rated control voltage: 5 V TTL. Rated switching voltage: 24 VDC $\pm 20\%$ . Continuous current: 100 mA. Screw connection	<b>8937920000</b>
MOS 12-28VDC/5VTTL	MICROOPTO, solid-state relay, 1 NO contact (TTL). Rated control voltage: 12 V DC...28 V DC. Rated switching voltage: 5 V TTL. Continuous current: 50 mA. Screw connection	<b>8937930000</b>

### MICROOPTO – For electronic modification and inversion

Electronic 1 CO contact used anywhere output signals need to be changed over. The input signal is directly switched through to the output side and inverted; as a result, the opto module can also be used as a pure inverter.

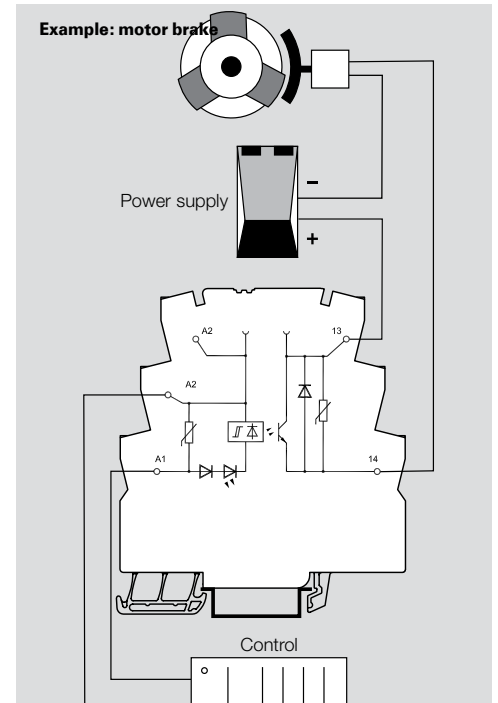
Type	Description	Order Number
MOS 24VDC/5-48VDC 0.5A	MICROOPTO, solid-state relay, 1 CO contact (Transistor). Rated control voltage: 24 V DC $\pm 20\%$ . Rated switching voltage: 5...48 V DC. Continuous current: 500 mA. Screw connection	<b>8937980000</b>

### MICROOPTO ACCESSORIES

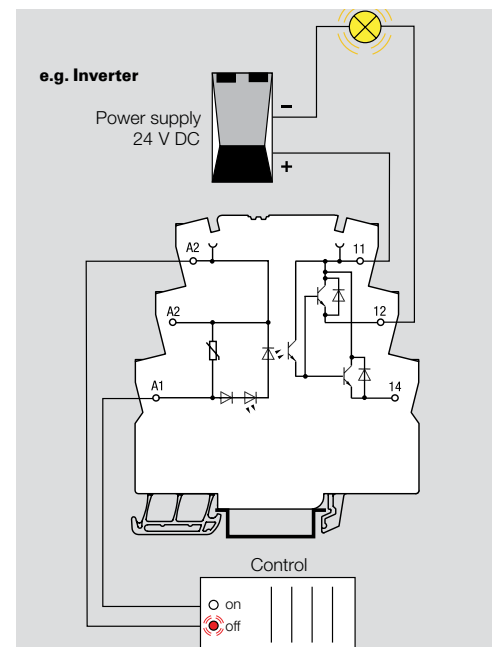
#### Feed through terminal and supply module

Type	Description	Order Number
MOS FEED THROUGH	MICROOPTO, Feed-through terminal. Screw connection	<b>8973450000</b>
MOS SUPPLY	MICROOPTO, Supply module. Screw connection	<b>8973460000</b>

### MICROOPTO Series



### MICROOPTO 300VDC

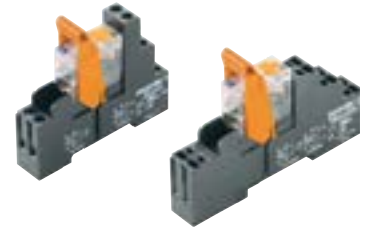


### MICROOPTO 1CO

## RIDERSERIES Relays

### Features:

- Choice of screw clamp or PUSH IN connections
- Push-to-test levers available in all values and formats
- Color coded marking for AC and DC inputs
- Heavy duty industry standard relay pinning
- 3 Changeover Contact versions also available, see Catalog 4.2.
- CE, cURus, CSA approvals

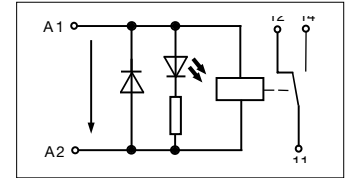


RCI Kit

### RCI-Kit, 1 Changeover Contact 250VAC/16A, 16 mm in width

Type	Order Number
<b>Type with test button on relay</b>	
RCIKIT 24VDC 1CO LD/PB	8881580000
RCIKITP 24VDC 1CO LD/PB	8897190000
RCIKIT 24VAC 1CO LD/PB	8881590000
RCIKITP 24VAC 1CO LD/PB	8897200000
RCIKIT 120VAC 1CO LD/PB	8897060000
RCIKITP 120VAC 1CO LD/PB	8897210000
RCIKIT 230VAC 1CO LD/PB	8881600000
RCIKITP 230VAC 1CO LD/PB	8897220000

Type	Order Number
<b>Type without test button</b>	
RCIKIT 24VDC 1CO LED	8871000000
RCIKITP 24VDC 1CO LD	8897110000
RCIKIT 24VAC 1CO LED	8871010000
RCIKITP 24VAC 1CO LD	8897120000
RCIKIT 120VAC 1CO LD	8897090000
RCIKITP 120VAC 1CO LD	8897130000
RCIKIT 230VAC 1CO LED	8871020000
RCIKITP 230VAC 1CO LD	8897140000

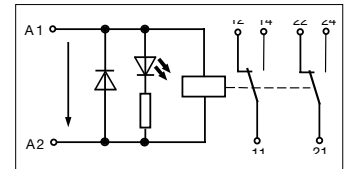


1 CO (SPDT)

### RCI-Kit, 2 Changeover Contact 250VAC/8A, 16 mm in width

Type	Order Number
<b>Type with test button on relay</b>	
RCIKIT 24VDC 2CO LD/PB	8881610000
RCIKITP 24VDC 2CO LD/PB	8897230000
RCIKIT 24VAC 2CO LD/PB	8881620000
RCIKITP 24VAC 2CO LD/PB	8897240000
RCIKIT 120VAC 2CO LD/PB	8897080000
RCIKITP 120VAC 2CO LD/PB	8897250000
RCIKIT 230VAC 2CO LD/PB	8881630000
RCIKITP 230VAC 2CO LD/PB	8897260000

Type	Order Number
<b>Type without test button</b>	
RCIKIT 24VDC 2CO LED	8871030000
RCIKITP 24VDC 2CO LD	8897150000
RCIKIT 24VAC 2CO LED	8871040000
RCIKITP 24VAC 2CO LD	8897160000
RCIKIT 120VAC 2CO LD	8897100000
RCIKITP 120VAC 2CO LD	8897170000
RCIKIT 230VAC 2CO LED	8871050000
RCIKITP 230VAC 2CO LD	8897180000



2 CO (DPDT)

### Accessories

Type	Description	Order Number
<b>For PUSH IN socket</b>	SRC-IQV (Jumper to common 1CO and 2CO relays- coil points or contact points)	8870840000
<b>For Screw socket</b>	SRC-IQVS (Jumper to common 1CO and 2CO relays- coil points or contact points)	1132070000



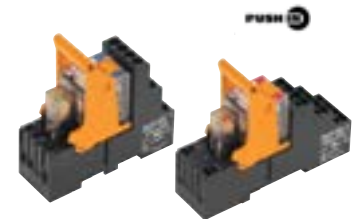
SRC-IQV



SRC-IQVS

### RCM-KIT, 2 Changeover Contact 240VAC/12A, 27 mm in width, with LED and test lever

Type	Connection Type	Coil Rating	Order Number
RCMKIT-I 24VDC 2CO LD	Screw	24 VDC	8920940000
RCMKITP-I 24VDC 2CO LD	PUSH IN	24 VDC	8921080000
RCMKIT-I 24VAC 2CO LD	Screw	24 VAC	8920950000
RCMKITP-I 24VAC 2CO LD	PUSH IN	24 VAC	8921090000
RCMKIT-I 115VAC 2CO LD	Screw	115 VAC	8920960000
RCMKITP-I 115VAC 2CO LD	PUSH IN	115 VAC	8921100000
RCMKIT-I 230VAC 2CO LD	Screw	230 VAC	8920970000
RCMKITP-I 230VAC 2CO LD	PUSH IN	230 VAC	8921110000

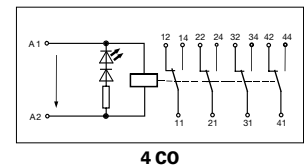
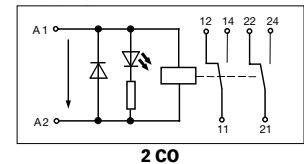


RCM Kit



**RCM-KIT, 4 Changeover Contact 240VAC/6A, 27 mm in width, with LED and test lever**

Type	Connection Type	Coil Rating	Order Number
RCMKIT-I 24VDC 4CO LD	Screw	24 VDC	<b>8921030000</b>
RCMKITP-I 24VDC 4CO LD	PUSH IN	24 VDC	<b>8921120000</b>
RCMKIT-I 24VAC 4CO LD	Screw	24 VAC	<b>8921040000</b>
RCMKITP-I 24VAC 4CO LD	PUSH IN	24 VAC	<b>8921130000</b>
RCMKIT-I 115VAC 4CO LD	Screw	115 VAC	<b>8921050000</b>
RCMKITP-I 115VAC 4CO LD	PUSH IN	115 VAC	<b>8921140000</b>
RCMKIT-I 230VAC 4CO LD	Screw	230 VAC	<b>8921060000</b>
RCMKITP-I 230VAC 4CO LD	PUSH IN	230 VAC	<b>8921150000</b>

**RIDERSERIES Jumpers**

Type	Connection Type	Description	Order Number
SCM-I QV	PUSH IN	2 pole jumper to common 2CO and 4CO relays - coil points or contact points	<b>8870850000</b>
SCM-IQV S	Screw	2 pole jumper to common 2CO and 4CO relays - coil points or contact points	<b>1132080000</b>

**D-SERIES**

Our relay kits are particularly convenient to use. The kits are delivered fully assembled and 100% function tested. This saves assembly time and reduces the number of parts required.

**Features:**

- Assembled kit consisting of relay, base and retaining clip, including label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with colored control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)

**D-SERIES DRI, SCREW & PUSH IN Kits, 1 Changeover Contact – 10A**

Type	Rated control voltage	Connection type	LED	Diode	Test button	Order Number
DRIKIT 12VDC 1CO LD/PB	12 V DC	Screw	•	•	•	<b>2476740000</b>
DRIKIT 12VDC 1CO LD	12 V DC	Screw	•	•		<b>2476340000</b>
DRIKIT 24VDC 1CO LD/PB	24 V DC	Screw	•	•	•	<b>2476750000</b>
DRIKITP 24VDC 1CO LD/PB	24 V DC	PUSH IN	•	•	•	<b>2576210000</b>
DRIKIT 24VDC 1CO LD	24 V DC	Screw	•	•		<b>2476680000</b>
DRIKITP 24VDC 1CO LD	24 V DC	PUSH IN	•	•		<b>2576220000</b>
DRIKIT 48VDC 1CO LD/PB	48 V DC	Screw	•	•	•	<b>2476760000</b>
DRIKIT 48VDC 1CO LD	48 V DC	Screw	•	•		<b>2476690000</b>
DRIKIT 110VDC 1CO LD/PB	110 V DC	Screw	•	•	•	<b>2476770000</b>
DRIKIT 110VDC 1CO LD	110 V DC	Screw	•	•		<b>2476700000</b>
DRIKIT 24VAC 1CO LD/PB	24 V AC	Screw	•	•	•	<b>2476780000</b>
DRIKITP 24VAC 1CO LD/PB	24 V AC	PUSH IN	•	•	•	<b>2576250000</b>
DRIKIT 24VAC 1CO LD	24 V AC	Screw	•	•		<b>2476710000</b>
DRIKITP 24VAC 1CO LD	24 V AC	PUSH IN	•	•		<b>2576260000</b>
DRIKIT 115VAC 1CO LD/PB	115 V AC	Screw	•	•	•	<b>2476790000</b>
DRIKITP 115VAC 1CO LD/PB	115 V AC	PUSH IN	•	•	•	<b>2576180000</b>
DRIKIT 115VAC 1CO LD	115 V AC	Screw	•	•		<b>2476720000</b>
DRIKITP 115VAC 1CO LD	115 V AC	PUSH IN	•	•		<b>2575980000</b>
DRIKIT 230VAC 1CO LD/PB	230 V AC	Screw	•	•	•	<b>2476800000</b>
DRIKITP 230VAC 1CO LD/PB	230 V AC	PUSH IN	•	•	•	<b>2576160000</b>
DRIKIT 230VAC 1CO LD	230 V AC	Screw	•	•		<b>2476730000</b>
DRIKITP 230VAC 1CO LD	230 V AC	PUSH IN	•	•		<b>2576280000</b>



**D-SERIES DRI Kit, SCREW & PUSH IN Kits, 2 Changeover Contact – 5A**

Type	Rated control voltage	Connection type	LED	Diode	Test button	Order Number
DRIKIT 12VDC 2CO LD/PB	12 V DC	Screw	•	•	•	2476880000
DRIKIT 12VDC 2CO LD	12 V DC	Screw	•	•		2476810000
DRIKIT 24VDC 2CO LD/PB	24 V DC	Screw	•	•	•	2476890000
DRIKITP 24VDC 2CO LD/PB	24 V DC	PUSH IN	•	•	•	2576190000
DRIKIT 24VDC 2CO LD	24 V DC	Screw	•	•		2476820000
DRIKITP 24VDC 2CO LD	24 V DC	PUSH IN	•	•		2576200000
DRIKIT 48VDC 2CO LD/PB	48 V DC	Screw	•	•	•	2476900000
DRIKIT 48VDC 2CO LD	48 V DC	Screw	•	•		2476830000
DRIKIT 110VDC 2CO LD/PB	110 V DC	Screw	•	•	•	2476910000
DRIKIT 110VDC 2CO LD	110 V DC	Screw	•			2476840000
DRIKIT 24VAC 2CO LD/PB	24 V AC	Screw	•		•	2476920000
DRIKITP 24VAC 2CO LD/PB	24 V AC	PUSH IN	•		•	2567623000
DRIKIT 24VAC 2CO LD	24 V AC	Screw	•			2476850000
DRIKITP 24VAC 2CO LD	24 V AC	PUSH IN	•			2576240000
DRIKIT 115VAC 2CO LD/PB	115 V AC	Screw	•		•	2476930000
DRIKITP 115VAC 2CO LD/PB	115 V AC	PUSH IN	•		•	2576170000
DRIKIT 115VAC 2CO LD	115 V AC	Screw	•			2476860000
DRIKITP 115VAC 2CO LD	115 V AC	PUSH IN	•			2576290000
DRIKIT 230VAC 2CO LD/PB	230 V AC	Screw	•		•	2476940000
DRIKITP 230VAC 2CO LD/PB	230 V AC	PUSH IN	•		•	2576150000
DRIKIT 230VAC 2CO LD	230 V AC	Screw	•			2476870000
DRIKITP 230VAC 2CO LD	230 V AC	PUSH IN	•			2576270000



Screw Clamp



PUSH IN

**D-SERIES DRM, SCREW & PUSH IN Kits, 2 Changeover Contact – 10A**

Type	Rated control voltage	Connection type	LED	Diode	Test button	Order Number
DRMKIT 24VDC 2CO LD/PB	24 V DC	Screw	•	•	•	1542460000
DRMKITP 24VDC 2CO LD/PB	24 V DC	PUSH IN	•	•	•	2576120000
DRMKIT 24VDC 2CO LD	24 V DC	Screw	•	•		1542360000
DRMKITP 24VDC 2CO LD	24 V DC	PUSH IN	•	•		2576110000
DRMKIT 24VAC 2CO LD/PB	24 V AC	Screw	•		•	1542480000
DRMKITP 24VAC 2CO LD/PB	24 V AC	PUSH IN	•		•	2576080000
DRMKIT 24VAC 2CO LD	24 V AC	Screw	•			1542380000
DRMKITP 24VAC 2CO LD	24 V AC	PUSH IN	•			2576070000
DRMKIT 220VAC 2CO LD/PB	220 V AC	Screw	•	•	•	1542470000
DRMKIT 220VAC 2CO LD	220 V AC	Screw	•	•		1542370000
DRMKIT 230VAC 2CO LD	230 V AC	Screw	•			1542390000
DRMKITP 230VAC 2CO LD	230 V AC	PUSH IN	•			2576030000
DRMKIT 230VAC 2CO LD/PB	230 V AC	Screw	•		•	1542490000
DRMKITP 230VAC 2CO LD/PB	230 V AC	PUSH IN	•		•	2576040000



Screw Clamp



PUSH IN

## D-SERIES DRM Kit, SCREW & PUSH IN Kits, 4 Changeover Contact – 5A

Type	Rated control voltage	Connection type	LED	Diode	Test button	Order Number
DRMKIT 24VDC 4CO LD/PB	24 V DC	Screw	•	•	•	1542510000
DRMKITP 24VDC 4CO LD/PB	24 V DC	PUSH IN	•	•	•	2576140000
DRMKIT 24VDC 4CO LD	24 V DC	Screw	•	•		1542410000
DRMKITP 24VDC 4CO LD	24 V DC	PUSH IN	•	•		2576130000
DRMKIT 24VAC 4CO LD/PB	24 V AC	Screw	•		•	1542530000
DRMKITP 24VAC 4CO LD/PB	24 V AC	PUSH IN	•		•	2576100000
DRMKIT 24VAC 4CO LD	24 V AC	Screw	•			1542430000
DRMKITP 24VAC 4CO LD	24 V AC	PUSH IN	•			2576090000
DRMKIT 220VAC 4CO LD/PB	220 V AC	Screw	•	•	•	1542520000
DRMKIT 220VAC 4CO LD	220 V AC	Screw	•	•		1542420000
DRMKIT 230VAC 4CO LD	230 V AC	Screw	•			1542450000
DRMKITP 230VAC 4CO LD	230 V AC	PUSH IN	•			2576050000
DRMKIT 230VAC 4CO LD/PB	230 V AC	Screw	•		•	1542540000
DRMKITP 230VAC 4CO LD/PB	230 V AC	PUSH IN	•		•	2576060000



Screw Clamp



PUSH IN

## D-SERIES ACCESSORIES

### DRI & DRM Cross-connectors/Sockets/LED protection modules/Retaining clip/Marker Sockets

Type	Description	Connection type	Order Number
SDI 1CO	For DRI: 1 CO contact, 12A	Screw	7760056350
SDI 2CO	For DRI: 2 CO contact, 8A	Screw	7760056351
SDI 1CO P	For DRI: 1 CO contact, 12A	PUSH IN	7760056364
SDI 2CO P	For DRI: 2 CO contact, 8A	PUSH IN	7760056365
SCM 2CO ECO	For DRM: 2 CO contact, 12A	Screw	7760056263
SCM 4CO ECO	For DRM: 4 CO contact, 6A	Screw	7760056264
SCM 2CO P	For DRM: 2 CO contact, 12A	PUSH IN	7760056362
SCM 4CO P	For DRM: 4 CO contact, 6A	PUSH IN	7760056363



D-SERIES Retaining Clip



## LED-/Protection Modules

Type	Rated control voltage	Protective Circuit	LED	Order Number
RIM 1 6/230VDC	6 - 230 V DC	For DRI: Free-wheel diode		7760056169
RIM 2 6/24VDC	6 - 24 V DC	For DRI: Free-wheel diode	•	7760056015
RIM 2 24/60VDC	24 - 60 V DC	For DRI: Free-wheel diode	•	7760056016
RIM 2 110/230VDC	110 - 230 V DC	For DRI: Free-wheel diode	•	7760056017
RIM 3 6/24VUC	6 - 24 V UC	For DRI	•	7940018457
RIM 3 24/60VUC	24 - 60 V UC	For DRI	•	7760056018
RIM 3 110/230VUC	110 - 230 V UC	For DRI	•	7940018455
RIM 3 110/230VAC LED*	110 - 230 V AC	For DRI: RC-Filter	•	7760056045
RIM 3 110/230VAC	110 - 230 V AC	For DRI: RC-Filter		7760056014
RIM 1 6/230VDC	6 - 230 V DC	For DRM: Free-wheel diode		7760056169
RIM 2 6/24VDC	6 - 24 V DC	For DRM: Free-wheel diode	•	7760056015
RIM 2 24/60VDC	24 - 60 V DC	For DRM: Free-wheel diode	•	7760056016
RIM 2 110/230VDC	110 - 230 V DC	For DRM: Free-wheel diode	•	7760056017
RIM 3 6/24VUC	6 - 24 V UC	For DRM	•	7940018457
RIM 3 24/60VUC	24 - 60 V UC	For DRM	•	7760056018
RIM 3 110/230VUC	110 - 230 V UC	For DRM	•	7940018455
RIM 3 110/230VAC LED	110 - 230 V AC	For DRM: RC-Filter	•	7760056045
RIM 3 110/230VAC	110 - 230 V AC	For DRM: RC-Filter		7760056014



## Retaining clip/Cross connectors/markers

Type	Version	Order Number
<b>Retaining clip</b>		
SDI CLIP	For DRI: Plastic retaining clip	7760056352
SDI CLIP P	For DRI: Plastic retaining clip with marker holder	7760056389
SDI CLIP HM	For DRI: Metal retaining clip for Relays with test button	7760056390
SDI CLIP LM	For DRI: Metal retaining clip for Relays without test button	7760056368
DRM/DRL CLIP M	For DRM: DRM/DRL CLIP M Metal retaining clip	7760056108
SCM CLIP P	For DRM: SCM CLIP P Plastic retaining clip with marker holder	7760056389
<b>Cross connectors</b>		
SRC-I QV S	For DRI: Screw socket	1132070000
SCM/SDI P CC	For DRI: PUSH IN socket	7760056366
SCM-I QV S	For DRM: Screw socket	1132080000
SCM/SDI P CC	For DRM: PUSH IN socket	7760056366
<b>Marker</b>		
ESG 6/15 SDI MC NE WS	For DRI: MultiCard white	2558340000
ESG 9/26 SCM ECO MC NE WS	For DRM: MultiCard white	1520980000



## TFI SERIES

Timing relays are used in automation technology to compensate for errors due to short cycle times.

### Features:

- Installation design
- Single- and multifunction
- Width 17.5 mm, 1 changeover contact
- cULus listed, CE conformity marking
- Recessed potentiometer buttons, analog indication of LED



Type	Rated Control	Contact Type	Timing Function	Order Number
TFIS 12-240VUC 1CO CG	12-240 V UC	1 CO	Li, Lp	<b>2697260000</b>
TFIS 12-240VUC 1CO M7C	12-240 V UC	1 CO	Bp, E, Es, R Wa, Ws, Wu	<b>2697250000</b>
TFIS 24-240VUC 1CO OFFC	24-240 V UC	1 CO	R	<b>2697290000</b>
TFIS 24-240VUC 1CO ON	24-240 V UC	1 CO	E	<b>2697280000</b>
TFIS 12-240VUC 2NO SD	12-240 V UC	2 NO	S	<b>2697270000</b>

## Delcon Series Relays

- Fast switching
- cULus listed
- Pulse transformer technology for critical loads and difficult environments
- High transient immunity for use in applications with electrical noise
- Virtually no off-state leakage current
- High current and high voltage DC output versions



Delcon Series

### Input Modules

Description	Control Voltage	Order Number
<b>AC apps. / input relays - DC low current output</b>		
Regular operation	24 VAC	<b>SLI25CR</b>
Regular operation	48 VAC	<b>SLI49CR</b>
Normally closed	120 VAC	<b>SLI120CRI</b>
Transient protection added on output	120 VAC	<b>SLI120CH</b>
Regular operation	120 VAC	<b>SLI120CR</b>
3.5mA leakage immunity on input	120 VAC	<b>SLI120CRP</b>
Transient protection added on input	230 VAC	<b>SLI230CH</b>
Regular operation	230 VAC	<b>SLI230CR</b>
Normally closed	230 VAC	<b>SLI230CRI</b>
3.5mA leakage immunity on input	230 VAC	<b>SLI230CRP</b>
<b>DC apps. / input relays - DC low current output</b>		
Regular operation	12 VDC	<b>SLI12CR</b>
Regular operation	24 VDC	<b>SLI24CR</b>
Fast switching, 10.000 Hz	24 VDC	<b>SLI24CRF</b>
To maintain min. input load 15 mA	24 VDC	<b>SLI24CRL</b>
Regular operation	48 VDC	<b>SLI48CR</b>
Transient protection added on input	125 VDC	<b>SLI125CH</b>
Regular operation	125 VDC	<b>SLI125CR</b>
Transient protection added on input	250 VDC	<b>SLI250CH</b>
Regular operation	250 VDC	<b>SLI250CR</b>
<b>Plug-in bases</b>		
TS35 DIN Rail Mounting base— Tension Clamp (12.8 mm wide)		<b>MIS1CCN</b>
TS35 DIN Rail Mounting base— Screw Clamp (12.8 mm wide)		<b>MIS1GN</b>

### Output Modules

Description	Control Voltage	Order Number
<b>AC apps. / output relays - AC/DC input voltage</b>		
Fast AC switching, off-delay 0.5 ms	5 VDC	<b>SLO5IRA</b>
Regular operation	5 VDC	<b>SLO5TR</b>
Regular operation	12 VDC	<b>SLO12TR</b>
Fast AC switching, off-delay 0.5 ms	24 VDC	<b>SLO24IRA</b>
Transient protection added	24 VDC	<b>SLO24TH</b>
Regular operation	24 VDC	<b>SLO24TR</b>
Regular operation	120 VAC	<b>SLOA120TR</b>
2mA leakage immunity on input	120 VAC	<b>SLOP120TR</b>
Regular operation	230 VAC	<b>SLOA230TR</b>
2mA leakage immunity on input	230 VAC	<b>SLOP230TR</b>
Electromechanical relay, make (NO)	24 VDC	<b>SRO24M</b>
Electromechanical relay, break (NC)	24 VDC	<b>SRO24B</b>
<b>DC apps. / output relays - DC input voltage</b>		
100 ms time constant*	5 VDC	<b>SLO5CRA</b>
Normal use	5 VDC	<b>SLO5CR</b>
High current, resistive load	5 VDC	<b>SLO5CRX</b>
Normal use	12 VDC	<b>SLO12CR</b>
100 ms time constant*	12 VDC	<b>SLO12CRA</b>
High current, resistive load	12 VDC	<b>SLO12CRX</b>
100 ms time constant*	24 VDC	<b>SLO24CRA</b>
Normal use	24 VDC	<b>SLO24CR</b>
50 ms time constant*	24 VDC	<b>SLO24CRA4</b>
High current, resistive load	24 VDC	<b>SLO24CRX</b>
<b>Plug-in bases</b>		
TS35 DIN Rail Mounting base— Tension Clamp (12.8 mm wide)		<b>MOS1CCN</b>
TS35 DIN Rail Mounting base— Screw Clamp (12.8 mm wide)		<b>MOS1GN</b>

\* L/R max. @ 24 V load voltage and max. current

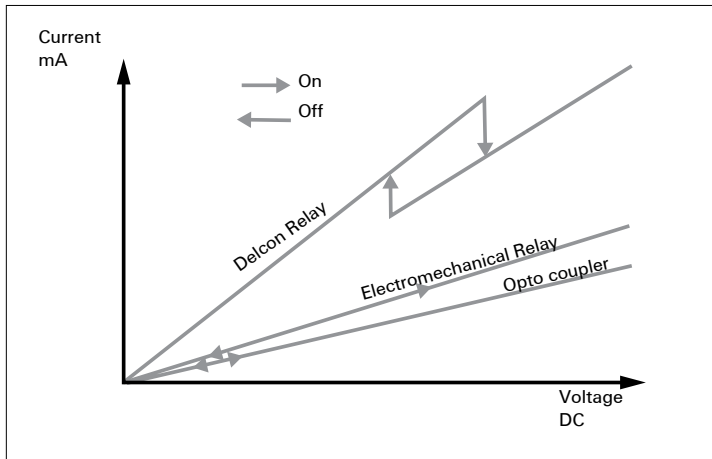
Delcon series relays utilize a patented pulse transformer technology offering numerous advantages over electromechanical relays and solid-state opto-couplers.

Visit our relays selector guide for more information.

[www.weidmuller.com/delcon](http://www.weidmuller.com/delcon)



Voltage/current - signal diagram



### Add reliability to a control system

Delcon Series relays improve the reliability of the whole control system. The exceptionally clear function and condition indication of Delcon Series relays is based on a unique current-voltage-hysteresis that guarantees 100% switching and signalling even under the worst conditions.



## Delcon Series Relays for Hazardous Areas

Delcon Series Relays help to eliminate interference, signal disturbances, inductive loads, high DC voltages and costly relay replacements. Delcon series relays are solid state relays for demanding conditions.

### Features

- Pulse Transformer Isolation
- Superior galvanic isolation 4kV
- Switches highly inductive loads (AC and DC)
- Switches high DC voltages
- Excellent immunity to interferences
- Long lifetime – 10 year warranty
- Hazardous Area Approvals (both EX and UL)
- cULus Listed HazLoc, ATEX, IECEx, CE (EMC and LVD)

### Input (Relay) Modules

Description	Control Voltage	Typical Application	Order Number
12 VDC - Regular operation	7.5 - 14 VDC	Limit Switches	<b>EXI12CH</b>
24 VDC - Regular operation	16 - 28 VDC	Limit Switches	<b>EXI24CH</b>
24 VDC - Fast DC switching, 10/25 µs	16 - 28 VDC	Fast Connections	<b>EXI24CHF</b>
24 VDC - Increased Input Current	16 - 28 VDC	Increased Input Current	<b>EXI24CHL</b>
24 VAC - Regular operation	16 - 24 VAC	Limit Switches	<b>EXI25CH</b>
48 VDC - Regular operation	36 - 48 VDC	Limit Switches	<b>EXI48CH</b>
48 VAC - Regular operation	35 - 48 VDC	Limit Switches	<b>EXI49CH</b>
120 VAC - Regular operation	80 - 120 VAC	Limit Switches	<b>EXI120CH</b>
120 VAC - Normally closed	80 - 120 VAC	Normally closed operation	<b>EXI120CHI</b>
120 VAC - Regular operation w/proxy	80 - 120 VAC	2 wire Prox switches	<b>EXI120CHP</b>
120 VDC - Regular operation	80 - 120 VAC	Limit Switches	<b>EXI125CH</b>
230 VAC - Regular operation	170 - 230 VAC	Limit Switches	<b>EXI230CH</b>
230 VAC - Normally closed	170 - 230 VAC	Normally closed operation	<b>EXI230CHI</b>
230 VAC - Regular operation w/proxy	170 - 230 VAC	2 wire Prox switches	<b>EXI230CHP</b>
230 VAC - Current limiting Secondary	170 - 230 VAC	Output Current Limited	<b>EXI230CHR</b>
250 VDC - Regular operation	170 - 250 VAC	Limit Switches	<b>EXI250CH</b>

### Rail Mount Bases for Input Relays

Description	Connection Type	Order Number
DIN socket for EXI Input Relay	Tension clamp	<b>MIS1CCNEX</b>
DIN socket for EXI Input Relay	Screw clamp	<b>MIS1GNEX</b>
DIN socket for EXI Input Relay with test points	Screw clamp	<b>MIS1TNEX</b>

### Output (Relay) Modules

Description	Control Voltage	Typical Application	Order Number
5 VDC/0...60 VDC 3 A	2.7 - 5 VDC	Inductive Loads	<b>EXO5CH</b>
5 VDC/0...250 VDC 1.8 A	2.7 - 5 VDC	Inductive Loads	<b>EXO5CHA</b>
5 VDC/0...24 VDC 10 A	2.7 - 5 VDC	Resistive Loads	<b>EXO5CHX</b>
5 VDC/0...240/250 VAC/VDC 1.2 A	2.7 - 5 VDC	Fast Switch Off	<b>EXO5IHA</b>
5 VDC/0...240 VAC 3 A	2.7 - 5 VDC	AC Loads	<b>EXO5TH</b>
12 VDC/0...60 VDC 3 A	8 - 14 VDC	Resistive Loads	<b>EXO12CH</b>
12 VDC/0...250 VDC 1.8 A	8 - 14 VDC	Inductive Loads	<b>EXO12CHA</b>
12 VDC/0...24 VDC 10 A	8 - 14 VDC	Resistive Loads	<b>EXO12CHX</b>
12 VDC/0...240 VAC 3 A	8 - 14 VDC	AC Loads	<b>EXO12TH</b>
24 VDC/0...60 VDC 3 A	16 - 28 VDC	Resistive Loads	<b>EXO24CH</b>
24 VDC/0...250 VDC 1.8 A	16 - 28 VDC	Inductive Loads	<b>EXO24CHA</b>
24 VDC/0...250 VDC 4 A	16 - 28 VDC	Inductive Loads	<b>EXO24CHA4</b>
24 VDC/0...24 VDC 10 A	16 - 28 VDC		<b>EXO24CHX</b>
24 VDC/0...240/250 VAC/VDC 1,2 A	16 - 28 VDC	Fast Switch Off	<b>EXO24IHA</b>
24 VDC/0...240 VAC 3 A, Snubber	16 - 28 VDC	Wide Temp Operating Range	<b>EXO24TH</b>
24 VDC/0...240 VAC 3 A	16 - 28 VDC	AC Loads	<b>EXO24TR</b>
48 VDC/0...250 VDC 1.8 A	30 - 48 VDC	Inductive Loads	<b>EXO48CHA</b>
48 VDC/0...250 VDC 4 A	30 - 48 VDC	Inductive Loads	<b>EXO48CHA4</b>
48 VDC/0...24 VDC 10 A	30 - 48 VDC	Resistive Loads	<b>EXO48CHX</b>
120 VDC/0...250 VDC 1.8 A	80 - 120 VDC	Inductive Loads	<b>EXO120CHA</b>
120 VDC/0...250 VDC 4 A	80 - 120 VDC	Inductive Loads	<b>EXO120CHA4</b>
220 VDC/0...250 VDC 1.8 A	170 - 220 VDC	Inductive Loads	<b>EXO220CHA</b>
220 VDC/0...250 VDC 4 A	170 - 220 VDC	Inductive Loads	<b>EXO220CHA4</b>
120 VAC/0...240 VAC 3 A	80 - 120 VAC	AC Loads	<b>EXOP120TH</b>
230 VAC/0...240 VAC 1.5 A	170 - 230 VAC	AC Loads	<b>EXOP230TH</b>

### Rail Mount Bases for Output Relays

Description	Connection Type	Order Number
DIN socket for EXI Output Relay	Tension clamp	<b>MOS1CCNEX</b>
DIN socket for EXI Output Relay	Screw clamp	<b>MOS1GNEX</b>
DIN socket for EXI Output Relay with test points	Screw clamp	<b>MOS1TNEX</b>

### EXO Series DIN-rail modules

Relay soldered connected to DIN base (no socket)

Description	Control Voltage	Order Number
Output relay 5VDC/0...24VDC 10A	2.7 - 5 VDC	<b>EXO5CHXSN</b>
Output relay 12VDC/0...24VDC 10A	8 - 14 VDC	<b>EXO12CHXSN</b>
Output relay 24VDC/0...24VDC 10A	16 - 28 VDC	<b>EXO24CHXSN</b>
Output relay 48VDC/0...24VDC 10A	30 - 48 VDC	<b>EXO48CHXSN</b>

# SIL Relays (SAFE Series)

Weidmüller's single and dual channel, rail mounted SCS Series are relay modules designed for switching safety related circuits up to SIL3 level, according to IEC 61508, for high risk installations.

The SCS Series is part of Weidmüller's broad range of high reliability electronics and electrical products designed for the process and factory automation industries worldwide.

- SIL relays for process emergency shut-down systems
- Certified cULus and IEC 61508 for SIL3 (TÜV)
- Energized or de-energized to safe mode
- Single and two channel Types
- Monitoring options with wide-range input voltages

The SCS 24VDC P1 SIL3DS safety relay is used in areas that require a functionally safe shut down.

- With and without monitoring circuit
- Wide-range input voltage
- Externally accessible fuse
- TÜV certified

Type	Description	Order Number
SCS 24VDC P1 SIL3DS M	with monitoring	<b>1303760000</b>
SCS 24VDC P1 SIL3DS	without monitoring	<b>1303890000</b>
SCS 24VDC P1 SIL3DS MG3	with monitoring and G3 gas-corrosion resistant	<b>1304040000</b>

The SCS 24VDC P2 SIL3DSES is used in areas that require functionally safe deactivation or activation.

- Energized/de-energized to safe
- Test inputs for testing relay contacts
- Externally accessible fuse
- TÜV certified

Type	Description	Order Number
SCS 24VDC P2 SIL3DSES	1 energized to safe (NO contact)	<b>1319270000</b>
	1 de-energized to safe (NO contact)	

The SCS 24VDC P2SIL3ES offers a SIL3 approved fuel cut-off relay which interfaces with burner management controls.

- Positively driven contacts
- 2-channel design
- TÜV certified

Type	Description	Order Number
SCS 24VDC P2SIL3ES	with short circuit protection	<b>1319280000</b>



# Analog Signal Isolators, Conditioners & Monitoring Modules

Electronics: Analog Signal Conditioning



## Analog signal conditioning

Weidmüller's range of analog converter and monitoring relays makes it a powerful partner in light of the increasing use of automation. Analog signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardized electrical signals are typically used for process engineering. Analog standardized currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

The analog signal processing products can be used universally in combination with other Weidmüller products and in combination among each other.

# Secure isolation of signals from hazardous areas

## Intrinsically safe ACT20X Ex-signal converters

Your application requires signals to be routed to or from hazardous areas. Our intrinsically safe ACT20X signal isolating converters meet the strict standards of the process industry and process signals from a wide range of Ex-zones (Zones 0, 1, 2) for control purposes.

ACT20X can be used universally. On the input side, the converter can process HART® input signals, or DC, RTD, thermocouple or NAMUR signals from the Ex-zone. On the output side, the ACT20X controls field devices with analogue or digital signals. All ACT20X products are characterised by high insulation, high accuracy and high temperature stability.

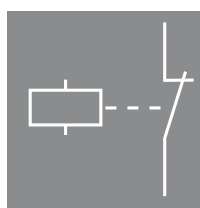
The 2-channel versions with width of 22.5 mm are available with either transistor or relay output. Because of this highly integrated design, the ACT20X helps you to reduce installation costs and use less space.

Intrinsically safe signal converters with SIL approval are available for safety functions, e.g. switching aggregates on/off, monitoring actuators or temperature/pressure. Our ACT20X complies with these stringent standards of the process industry, as well as mining industry requirements.



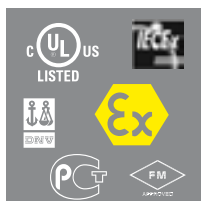
### Configuration via FDT

All modules can be quickly and conveniently configured with manufacturer-independent FDT/DTM software.



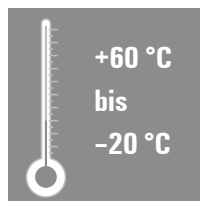
### Alarm function

No laborious troubleshooting. Alarm function integrated for cable or sensor errors. In case of failures, a diagnostic signal is sent to the control system.



### Worldwide application

Fulfills the strict standards and requirements of the process industry. Can be used worldwide due to international and local approvals ATEX, IECEx, CULUS, FM, GOST and DNV.



### Robust

Wide ambient temperature range from -20 °C ... +60 °C.



### Intelligent connection system

Pluggable, coded, with release lever. The release lever simplifies maintenance and allows disconnection without damaging the cables.



### SIL certification according 61508

Available for safety functions, e.g. switching aggregates on/off, monitoring actuators or temperature/pressure.

# ACT20X Selection table



ACT20X

## ACT20X – Universal, Intrinsically Safe Signal Conditioners for Hazardous Area Applications

- Quick and easy configuration
- Saves panel space with compact 2-channel Types
- Wide temperature range from -20°C to +60°C
- Error alarm output for open/short circuits or internal errors
- Global approvals for hazardous area applications UL Class 1, Div. 2, Zone 0, Zone 2, ATEX

### Selection table

Order Number	Product	Input										Miscellaneous	Sensor feed	Width
		Amount	0...20 mA	4...20 mA	0...10 V	0...5 V	TC	RTD	Frequency					
<b>Intrinsically safe signal converters – ACT20X</b>														
<b>HART® transparent supply isolator</b>														
8965430000	ACT20X-HAI-SA0-S	1	X	X								EX, HART® transparent	X	22.5 mm
2456140000	ACT20X-HAI-SA0-P	1	X	X								EX, HART® transparent	X	22.5 mm
8965440000	ACT20X-2HAI-2SA0-S	2	X	X								EX, HART® transparent	X	22.5 mm
2456150000	ACT20X-2HAI-2SA0-P	2	X	X								EX, HART® transparent	X	22.5 mm
<b>HART® transparent output driver</b>														
8965450000	ACT20X-SAI-HA0-S	1		X								HART® transparent		22.5 mm
2456160000	ACT20X-SAI-HA0-P	1		X								HART® transparent		22.5 mm
8965460000	ACT20X-2SAI-2HA0-S	2		X								HART® transparent		22.5 mm
2456170000	ACT20X-2SAI-2HA0-P	2		X								HART® transparent		22.5 mm
<b>Temperature transducer</b>														
8965470000	ACT20X-HTI-SA0-S	1	X	X			X	X				EX, temperature + mA		22.5 mm
2456180000	ACT20X-HTI-SA0-P	1	X	X			X	X				EX, temperature + mA		22.5 mm
8965480000	ACT20X-2HTI-2SA0-S	2	X	X			X	X				EX, temperature + mA		22.5 mm
2456190000	ACT20X-2HTI-2SA0-P	2	X	X			X	X				EX, temperature + mA		22.5 mm
<b>Pulse isolators with relay output</b>														
8965340000	ACT20X-HDI-SDO-RNO-S	1										EX, Namur initiator, switching signal	X	22.5 mm
2456050000	ACT20X-HDI-SDO-RNO-P	1										EX, Namur initiator, switching signal	X	22.5 mm
8965350000	ACT20X-HDI-SDO-RNC-S	1										EX, Namur initiator, switching signal	X	22.5 mm
2456060000	ACT20X-HDI-SDO-RNC-P	1										EX, Namur initiator, switching signal	X	22.5 mm
8965370000	ACT20X-2HDI-2SDO-RNO-S	2										EX, Namur initiator, switching signal	X	22.5 mm
2456080000	ACT20X-2HDI-2SDO-RNO-P	2										EX, Namur initiator, switching signal	X	22.5 mm
8965380000	ACT20X-2HDI-2SDO-RNC-S	2										EX, Namur initiator, switching signal	X	22.5 mm
2456090000	ACT20X-2HDI-2SDO-RNC-P	2										EX, Namur initiator, switching signal	X	22.5 mm
<b>Pulse isolators with transistor output</b>														
8965360000	ACT20X-HDI-SDO-S	1										EX, Namur initiator, switching signal	X	22.5 mm
2456070000	ACT20X-HDI-SDO-P	1										EX, Namur initiator, switching signal	X	22.5 mm
8965390000	ACT20X-2HDI-2SDO-S	2										EX, Namur initiator, switching signal	X	22.5 mm
2456100000	ACT20X-2HDI-2SDO-P	2										EX, Namur initiator, switching signal	X	22.5 mm
<b>Digital output</b>														
8965400000	ACT20X-SDI-HDO-L-S	1										NPN / PNP switching signal		22.5 mm
2456100000	ACT20X-SDI-HDO-L-P	1										NPN / PNP switching signal		22.5 mm
8965420000	ACT20X-2SDI-2HDO-S	2										NPN / PNP switching signal		22.5 mm
2456120000	ACT20X-2SDI-2HDO-P	2										NPN / PNP switching signal		22.5 mm
8965410000	ACT20X-SDI-HDO-H-S	1										NPN / PNP switching signal		22.5 mm
2456120000	ACT20X-SDI-HDO-H-P	1										NPN / PNP switching signal		22.5 mm
<b>Universal measurement transducers</b>														
8965490000	ACT20X-HUI-SA0-S	1	X	X	X	X	X	X				EX, temperature + mA + V	X	22.5 mm
2456200000	ACT20X-HUI-SA0-P	1	X	X	X	X	X	X				EX, temperature + mA + V	X	22.5 mm
1318220000	ACT20X-HUI-SA0-LP-S	1	X	X	X	X	X	X				EX, temperature + mA + V		12.5 mm





Amount	0...20 mA	4...20 mA	0...10 V	Relay	Output		Configuration	Auxiliary power	Rated voltage	Isolation	Connection system	Special characteristics
					Miscellaneous							
1		X			Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety, HART® transparent
1		X			Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety, HART® transparent
2		X			Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety, HART® transparent
2		X			Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety, HART® transparent
1		X			Ex Output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety, HART® transparent
1		X			Ex Output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety, HART® transparent
2		X			Ex Output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety, HART® transparent
2		X			Ex Output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety, HART® transparent
1	X	X			Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
1	X	X			Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
2	X	X			Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
2	X	X			Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
1				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
1				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
1				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
1				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
2				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
2				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
2				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
2				X	Relay output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
1					Transistor output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
1					Transistor output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
2					Transistor output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
2					Transistor output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
1					Ex Output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
1					Ex Output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
2					Ex Output, Status relay		Software	24 V DC	300 V	3-way	S	ATEX approval, intrinsic safety ignition protection IIC
2					Ex Output, Status relay		Software	24 V DC	300 V	3-way	P	ATEX approval, intrinsic safety ignition protection IIC
1					Ex Output, Status relay		Software	24 V DC	300 V	3-way	S	ATEX approval, intrinsic safety ignition protection IIB
1					Ex Output, Status relay		Software	24 V DC	300 V	3-way	P	ATEX approval, intrinsic safety ignition protection IIB
1	X	X		X	Limit value relay output, Status relay		Software	24 V DC	300 V	3-way	S	With ATEX approval, intrinsic safety
1	X	X		X	Limit value relay output, Status relay		Software	24 V DC	300 V	3-way	P	With ATEX approval, intrinsic safety
1		X			-		Software	output loop	300 V	2-way	S	With ATEX approval, intrinsic safety

Connection system: S = screw / Z = tension clamp / P = Push In, ILP = Input Loop Powered, OLP = Output Loop Powered

**Reliable connection**

Individually customisable protection against mismatching.



**Rapid device replacement**

Practical release lever for simple removal of the female connector.



**More space in the cabinet**

Two channels measure a mere 12.5 mm wide.



**Variants for different applications**

The range of products is rounded off by the intrinsically safe ACT20X signal converter and the high-performance ACT20M signal converter, which is just 6 mm across.

## Your practical requirements are many Just like our ACT20P signal isolating converters

The reliable isolation and specific conversion of analogue signals plays an increasingly important role in many areas of industry and technology. When we developed the ACT20P signal converter we took full account of various technical requirements of machine engineering, the process industry and energy technology. In particular, the specifications of EN61010-1 provided important basic parameters for the technology of the equipment.



ACT20P



### Perfectly equipped for the machine engineering sector

Filling systems and packaging machines used in the food or pharmaceutical industry, for example, are a classic area of application for signal converters. They convert analogue signals such as temperature, pressure, fill level, flow, weight, etc. directly into standard signals for processing by the PLC. And best of all: a signal converter solution usually costs much less than an input module in the remote-i/o-system adapted to the specific requirements of the sensor.



### Ideally suited for the process industry and energy technology

In water treatment plants, conveyor technology, gas and coal-fired power plants, energy distribution stations and in many other types of plant in the process and energy technology sector signal converters have two main functions:

On the one hand, they provide reliable galvanic isolation – especially if the cables of the sensors from the field are several hundred meters in length. On the other hand, our signal converters enable individual signals such as potentiometer signals from rotary encoders or TC type J signals from temperature sensors to be adapted for the standardised inputs of DCS- or Remote-i/o-systems.

# ACT20P Selection table

## ACT20P-Bridge-S – Isolated Strain Gauge Converter

- Fast and accurate weighing for up to 4 load cells
- Converts bridge voltage to standardized analog signals
- Precise signal processing with 4- or 6-wire connection; very high accuracy (0.05%)
- Tare compensation via pushbutton or external connection via PLC output
- Protected against transients with 5.7kV isolation between input, output and power supply



**Reliable connection**  
Individually configurable protection against mismatching with release lever

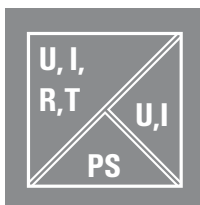
### Selection table

Order Number	Product	Input										Width		
		Amount	0...20 mA	4...20 mA	0...10 V	0...5 V	TC	RTD	Frequency	Miscellaneous	Sensor feed			
<b>Signal converters and monitoring components - ACT20P</b>														
<b>Signal converters</b>														
7760054114	ACT20P-CI-CO-S	1	X	X								2/3-wire transmitter, HART® transparent	X	12.5 mm
2489680000	ACT20P-CI-CO-P	1	X	X								2/3-wire transmitter, HART® transparent	X	12.5 mm
7760054117	ACT20P-2CI-2CO-12-S	2	X	X								4-wire sensor, HART® transparent		12.5 mm
2489730000	ACT20P-2CI-2CO-12-P	2	X	X								4-wire sensor, HART® transparent		12.5 mm
1540010000	ACT20P-CI-VO-S	1	X	X								2/3-/4-wire sensor	X	12.5 mm
2489740000	ACT20P-CI-VO-P	1	X	X								2/3-/4-wire sensor	X	12.5 mm
7760054306	ACT20P-VM-AO-S	1										0...440 V AC, 0...660 V DC		22.5 mm
<b>Passive isolators</b>														
7760054123	ACT20P-CI-CO-IHP-S	1	X	X								4-wire sensor	X	12.5 mm
7760054124	ACT20P-2CI-2CO-IHP-S	2	X	X								4-wire sensor	X	12.5 mm
7760054122	ACT20P-CI-2CO-OLP-S	1		X								4-wire sensor	X	12.5 mm
7760054118	ACT20P-CI-1CO-OLP-S	1	X									4-wire sensor	X	12.5 mm
7760054119	ACT20P-CI-2CO-OLP-S	1		X								4-wire sensor	X	12.5 mm
7760054121	ACT20P-VI-CO-OLP-S	1			X							4-wire sensor	X	12.5 mm
7760054120	ACT20P-VI-1CO-OLP-S	1				X						4-wire sensor	X	12.5 mm
7760054122	ACT20P-CI-2CO-OLP-S	1		X								4-wire sensor	X	12.5 mm
<b>Signal splitters</b>														
7760054115	ACT20P-CI-2CO-S	1	X	X								2/3-/4-wire sensor, HART® transparent	X	12.5 mm
2489710000	ACT20P-CI-2CO-P	1	X	X								2/3-/4-wire sensor, HART® transparent	X	12.5 mm
<b>Temperature transducer</b>														
7760054305	ACT20P-TMR-RTI-S	1						X				PT100		22.5 mm
2448100000	ACT20P-PRO-RTCI-AO-DO-S	1					X	X				RTD, SRTD, Pot, mV, resistance	X	12.5 mm
2448110000	ACT20P-PRO-RTCI-AO-DO-P	1					X	X				RTD, SRTD, Pot, mV, resistance	X	12.5 mm
7940045760	ACT20P-UI-2RCD-DC-S	1	X	X	X	X	X	X				± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance	X	22.5 mm
2456840000	ACT20P-UI-2RCD-DC-P	1	X	X	X	X	X	X				± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance	X	22.5 mm
1238910000	ACT20P-UI-2RCD-AC-S	1	X	X	X	X	X	X				± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance	X	22.5 mm
2495690000	ACT20P-UI-2RCD-AC-P	1	X	X	X	X	X	X				± 25 mA, ± 5 A DC, ± 30 V DC, ± 300 V DC, potentiometer, resistance	X	22.5 mm
<b>Measurement and monitoring relays</b>														
7760054164	ACT20P-VMR-1PH-H-S	1										1 phase 0...400 V AC/DC		22.5 mm
7760054165	ACT20P-VMR-3PH-IHP-H-S	1										3 phases 180...500 V AC		22.5 mm
<b>Current measuring transducers</b>														
2044850000	ACT20P-CML-10-AO-RC-S	1										0...1/5/10 A AC/DC		17.5 mm
2489910000	ACT20P-CML-10-AO-RC-P	1										0...1/5/10 A AC/DC		17.5 mm
1510470000	ACT20P-CMT-10-AO-RC-S	1										0...5/10 A AC/DC		22.5 mm
1510540000	ACT20P-CMT-30-AO-RC-S	1										0...20/25/30 A AC/DC		22.5 mm
1510440000	ACT20P-CMT-60-AO-RC-S	1										0...40/50/60 A AC/DC		22.5 mm
1510390000	ACT20P-CMT-60-RC-S	1										0...40/50/60 A AC/DC		22.5 mm
1510330000	ACT20P-CMT-10-AO-RC-P	1										0...5/10 A AC/DC		22.5 mm
1510320000	ACT20P-CMT-30-AO-RC-P	1										0...20/25/30 A AC/DC		22.5 mm
1510290000	ACT20P-CMT-60-AO-RC-P	1										0...40/50/60 A AC/DC		22.5 mm
1510280000	ACT20P-CMT-60-RC-P	1										0...40/50/60 A AC/DC		22.5 mm
<b>Bridge measuring transducers</b>														
1067250000	ACT20P-BRIDGE-S	1										4,6-wire strain gauge	X	22.5 mm
2456820000	ACT20P-BRIDGE-P	1										4,6-wire strain gauge	X	22.5 mm
<b>Universal measurement transducers</b>														
1481970000	ACT20P-PRO DCDC II-S	1	X	X	X	X						± 100 mA, ± 300 V DC	X	12.5 mm
1481960000	ACT20P-PRO DCDC II-P	1	X	X	X	X						± 100 mA, ± 300 V DC	X	12.5 mm
1453210000	ACT20P-UI-AO-DO-LP-S	1	X	X	X	X	X	X				± 25 mA, ± 5 A DC, ± 28 V DC, ± 300 V DC, 300 V AC	X	12.5 mm
2456850000	ACT20P-UI-AO-DO-LP-P	1	X	X	X	X	X	X				± 25 mA, ± 5 A DC, ± 28 V DC, ± 300 V DC, 300 V AC	X	12.5 mm
1477420000	ACT20P-AI-AO-DC-S	1	X	X	X	X						0...11 V, 0...22 mA	X	12.5 mm
2456860000	ACT20P-AI-AO-DC-P	1	X	X	X	X						0...11 V, 0...22 mA	X	12.5 mm



### Simple signal conditioning

Devices configured for converting standard sensor signals to standard DC signals.



### High level of galvanic isolation

The galvanic isolation of 2 kV (300 V rated voltage) ensures high process reliability

Amount	Output					Configuration	Auxiliary power	Rated voltage	Isolation	Connection system	Special characteristics
	0...20 mA	4...20 mA	0...10 V	Relay	Miscellaneous						
1	X	X				-	24 V DC	300 V	3-way	S	HART® transparent
1	X	X				-	24 V DC	300 V	3-way	P	HART® transparent
2	X	X				-	24 V DC	300 V	3-way	S	HART® transparent
2	X	X				-	24 V DC	300 V	3-way	P	HART® transparent
1			X			-	24 V DC	300 V	3-way	S	
1			X			-	24 V DC	300 V	3-way	P	
1	X	X	X			Software	24...240 V UC	600 V	3-way	S	
1	X	X				-	input loop	300 V	2-way	S	
2	X	X				-	input loop	300 V	4-way	S	
2		X				-	output loop	300 V	3-way	S	
1		X				-	output loop	300 V	2-way	S	
1		X				-	output loop	300 V	2-way	S	
1		X				-	output loop	300 V	2-way	S	
1		X				-	output loop	300 V	2-way	S	
2		X				-	output loop	300 V	4-way	S	
2	X	X				-	24 V DC	300 V	4-way	S	HART® transparent
2	X	X				-	24 V DC	300 V	4-way	P	HART® transparent
2				X	2 x relay outputs (limit value)	Software, Display	20...264 V UC	300 V	5-way	S	
1	X	X	X		analogue and NPN output, Limit value	Display, Button	24...240 V UC	300 V	3-way	S	
1	X	X	X		analogue and NPN output, Limit value	Display, Button	24...240 V UC	300 V	5-way	P	
1				X	2 x Limit value relay output	Software, Display	9...60 V DC	300 V	5-way	S	
1				X	2 x Limit value relay output	Software, Display	9...60 V DC	300 V	5-way	P	
1				X	2 x Limit value relay output	Software, Display	90...264 V AC	300 V	5-way	S	
1				X	2 x Limit value relay output	Software, Display	90...264 V AC	300 V	5-way	P	
2				X	2 x Limit value relay output	DIP switch, potentiometer	20...240 V UC	300 V	5-way	S	
2				X	2 x Limit value relay output	DIP switch, potentiometer	Input loop	600 V	5-way	S	
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	S	Power cable can be connected to the terminals
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	P	Power cable can be connected to the terminals
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	S	Through hole current converter
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	S	Through hole current converter
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	S	Through hole current converter
1				X	Limit value relay output	DIP switch, potentiometer	24 V DC	300 V	3-way	S	Through hole current converter
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	P	Through hole current converter
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	P	Through hole current converter
1	X	X	X	X	± 10 V, ± 20 mA, Limit value relays	DIP switch, potentiometer	24 V DC	300 V	4-way	P	Through hole current converter
1				X	Limit value relay output	DIP switch, potentiometer	24 V DC	300 V	3-way	P	Through hole current converter
1	X	X	X		Reset button (TARE)	DIP switch, button	10...60 V DC	300 V	3-way	S	
1	X	X	X		Reset button (TARE)	DIP switch, button	10...60 V DC	300 V	3-way	P	
1	X	X	X		± 10 V, ± 20 mA	Display, DIP switch, button	24 V - 230 V AC/DC	600 V	3-way	S	aktiv or passiv output
1	X	X	X		± 10 V, ± 20 mA	Display, DIP switch, button	24 V - 230 V AC/DC	600 V	3-way	P	aktiv or passiv output
1		X			NPN output, Limit value	Software	output loop	300 V	3-way	S	Output Loop powered
1		X			NPN output, Limit value	Software	output loop	300 V	3-way	P	Output Loop powered
1	X	X	X		0...11V, 0...22mA	DIP switch, button, LED	12...60 V DC	300 V	3-way	S	
1	X	X	X		0...11V, 0...22mA	DIP switch, button, LED	12...60 V DC	300 V	3-way	P	

Connection system: S = screw / Z = tension clamp / P = Push In, ILP = Input Loop Powered, OLP = Output Loop Powered



## Reliable conversion and isolation of signals in confined spaces

### With ACT20M signal converters with 6 mm wide design

#### The new dimension for converting and isolating – housed in a 6 mm width

The ACT20M series of products combines innovative technology with maximum functionality in an electronics housing measuring just 6 mm in width. The ACT20-FEED-IN-PRO-S power-feed unit eliminates the need to wire the power supply to the modules. This reduces the installation time by at least 30%. The ACT20-FEED-IN-PRO-S can supply and monitor up to 120 devices, which are mounted on the CH20 terminal rail bus.

The product line consists of Input Loop Powered, Output Loop Powered and Auxiliary Powered analog isolators and converters, including a universal input converter. The eight-connection housing allows additional functionality such as 2 channel ILP, 2 channel OLP isolation and signal splitting with input powering option. The configuration is carried out via DIP switches or the FDT/ DTM software. The ACT20M modules are supplied via direct wiring or a rail bus.





**The DIP switch can be configured simply on the module**

In the "ACT20M Tool" software, simply select the type of input and output, and set the DIP switch configuration as displayed.



**Installation is simple and quick**

The power supply is simply snapped onto the rail bus for fast and easy installation. The supply can be through any ACT20M module or a separate power-feed unit.



**Easy configuration**

DIP switches on the side are used to configure the input and output parameters, as well as the response time.



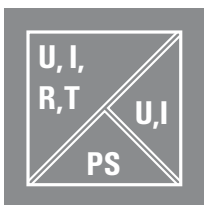
**Approvals**

Fulfils the strict standards and requirements of the process industry. Can be used worldwide due to international and local approvals ATEX, IECEX, CULUS, FM, GL and DNV.



**High level of galvanic isolation**

2.5 kV of electrical isolation (300 V rated voltage) ensures excellent process reliability.



# Selection table

## ACT20M: the slimmest

Extremely space-saving with a width of only 6 mm.

- Extensive approvals, e.g. ATEX, IECEx, GL, DNV
- Robust against interference
- High packing density per channel
- Certifications: ATEX, UL, DNV, FM
- Easy and quick installation of the power supply via CH20M DIN railbus
- Easy configuration via DIP switches or FDT/DTM software

### Selection table

Order Number	Product	Input									Miscellaneous	Sensor feed	Width
		Amount	0...20 mA	4...20 mA	0...10 V	0...5 V	TC	RTD	Frequency				
<b>Space-saving signal converters - ACT20M</b>													
<b>Signal converters</b>													
1175980000	ACT20M-CI-CO-S	1	X	X							4-wire sensor		6.1 mm
1176000000	ACT20M-AI-AO-S	1	X	X	X	X					2,4-wire sensor	X	6.1 mm
1176010000	ACT20M-AI-AO-E-S	1	X	X	X	X					4-wire sensor		6.1 mm
1375450000	ACT20M-BAI-AO-S	1									-10(20)...+10(20) mA, -5(10)...+5(10) V		6.1 mm
<b>Passive isolators</b>													
1176070000	ACT20M-CI-CO-ILP-S	1	X	X							4-wire sensor		6.1 mm
1176080000	ACT20M-2CI-2CO-ILP-S	2	X	X							4-wire sensor		6.1 mm
1176040000	ACT20M-CI-CO-OLP-S	1		X							2-wire transmitter	X	6.1 mm
1176050000	ACT20M-2CI-2CO-OLP-S	2		X							2-wire transmitter	X	6.1 mm
<b>Signal splitters</b>													
1175990000	ACT20M-CI-2CO-S	1	X	X							4-wire sensor		6.1 mm
1176020000	ACT20M-AI-2SAO-S	1	X	X	X	X					2,4-wire sensor	X	6.1 mm
1375470000	ACT20M-BAI-2AO-S	1									-10(20)...+10(20) mA, -5(10)...+5(10) V		6.1 mm
<b>Temperature transducer</b>													
1435590000	ACT20M-RTCI-CO-OLP-S	1					X	X			PT100 Type: J,K		6.1 mm
1435610000	ACT20M-RTI-CO-EOLP-S	1						X			PT100		6.1 mm
1375510000	ACT20M-RTI-AO-S	1						X			PT100		6.1 mm
1375520000	ACT20M-RTI-AO-E-S	1						X			PT100		6.1 mm
1375480000	ACT20M-TCI-AO-S	1					X				Type J,K		6.1 mm
1375500000	ACT20M-TCI-AO-E-S	1					X				Type J,K		6.1 mm
<b>Universal measurement transducers</b>													
1176030000	ACT20M-UI-AO-S	1	X	X	X	X	X	X			PT50/100/250/300/400/1000, Ni50/100/1000 Type: B / C / E / J / K / L / N / R / S / T	X	6.1 mm



	Output					Configuration	Auxiliary power	Rated voltage	Isolation	Connection system	Special characteristics
	Amount	0...20 mA	4...20 mA	0...10 V	Relay						
1	X	X					24 V DC	300 V	3-way	S	ATEX approval Zone 2
1	X	X	X			DIP switch	24 V DC	300 V	3-way	S	ATEX approval Zone 2
1	X	X	X			DIP switch	24 V DC	300 V	3-way	S	ATEX approval Zone 2
1	X	X	X			DIP switch	24 V DC	300 V	2-way	S	ATEX approval Zone 2
1	X	X					input loop	300 V	2-way	S	ATEX approval Zone 2, Passive converter
2	X	X					input loop	300 V	2-way	S	ATEX approval Zone 2, Passive converter
1		X					output loop	300 V	2-way	S	ATEX approval Zone 2, Passive converter
2		X					output loop	300 V	2-way	S	ATEX approval Zone 2, Passive converter
2	X	X				DIP switch	24 V DC	300 V	3-way	S	ATEX approval Zone 2
2	X	X	X			DIP switch	24 V DC	300 V	3-way	S	ATEX approval Zone 2
2	X	X	X		-10(20)...+10(20) mA	DIP switch	24 V DC	300 V	2-way	S	ATEX approval Zone 2
1		X			20...4 mA	DIP switch	output loop	300 V	2-way	S	ATEX approval Zone 2, Passive converter
1		X			20...4 mA	DIP switch	output loop	-	-	S	ATEX approval Zone 2, Passive converter
1	X	X	X		0(1)...5 V	DIP switch	24 V DC	300 V	2-way	S	ATEX approval Zone 2
1	X	X			0(1)...5 V	DIP switch	24 V DC	-	-	S	ATEX approval Zone 2
1	X	X	X		interne CJC, externe CJC	DIP switch	24 V DC	300 V	2-way	S	ATEX approval Zone 2
1	X	X	X		interne CJC, externe CJC	DIP switch	24 V DC	-	-	S	ATEX approval Zone 2
1	X	X	X			Software	24 V DC	300 V	3-way	S	ATEX approval Zone 2

Connection system: S = screw / Z = tension clamp / P = Push In, ILP = Input Loop Powered, OLP = Output Loop Powered

# Measuring and isolating without auxiliary power supply

## PicoPak - the smallest standard signal isolator

Use in different applications and industries

Many processes are only possible with the safe conversion and reliable separation of analogue current signals. With impressive performance, our analogue signal converter PicoPak supports the simultaneous measurement and galvanic isolation of signals from active field sensors and PLC input cards. Because of their integrated input and output current loop, the module does not require any additional auxiliary power supply and can also be easily used in remote switch boxes. Being integrated into a housing that is only 6 mm wide means that the signal converters take up very little space on a terminal rail. Both the tried-and-tested screw connectors and the convenient PUSH IN connection technology designs ensure reliable connections.



### Your special advantages:

- High flexibility for a variety of applications due to worldwide approvals and an extended temperature range from -40 to +70°C
- Loop powered to isolate active field sensors without additional auxiliary power supply from active PLC input cards
- Reliable measurement range and zero point calibration using a potentiometer

**Span and Zero point calibration**  
Adjustable by potentiometer

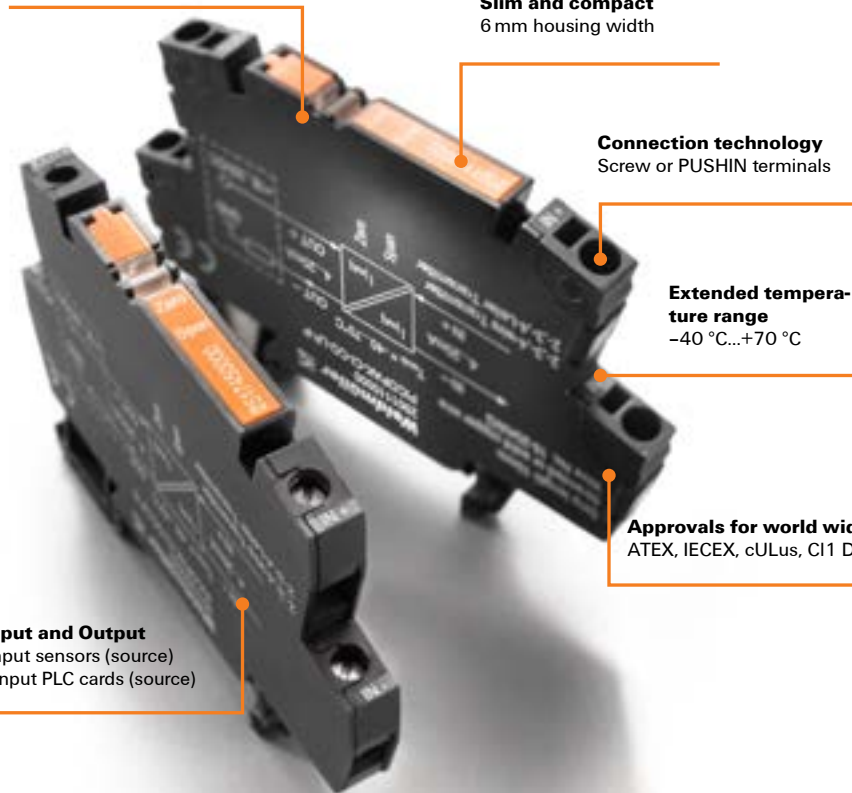
**Slim and compact**  
6 mm housing width

**Connection technology**  
Screw or PUSHIN terminals

**Extended temperature range**  
-40 °C...+70 °C

**Approvals for world wide use**  
ATEX, IECEX, cULus, CI1 Div2

**Passive Input and Output**  
for active input sensors (source) and active input PLC cards (source)





**PicoPak screw connection / PUSH IN**

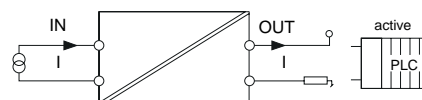
**PicoPak: the legacy**

- Loop powered at output
- Increased operating temperature range -40 °C ...+70 °C
- Zero and span adjustment possible

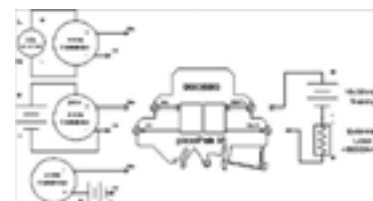
This product has process industry-proven reliability in North America. For years picoPak™ I - I has allowed signal isolation with space savings, zero\ span calibration for critical control loops and Class 1 Div 2 approval.

Now features better housing (2mm thinner) and covered on both sides with proven reliability and confidence in this great product.

**PICOPAK-CI-CO-LP**



**picoPak I-I 4-20mA Isolator**



**Technical data**

Input	
Number of inputs	1
Input current	4...20 mA
Sensor	Current source
Voltage drop, current input	≤3.5 V
Analog outputs	
Load impedance current	≤ 600 Ω
Output current	4...20 mA, loop-powered
Supply voltage (output)	18...32 V
General data	
Accuracy	< 0.1 % of measuring range
Configuration	Potentiometer
Voltage supply	Output loop powered
Step response time	≤ 5 ms
Temperature coefficient	≤ 200 ppm/K
Power consumption, max.	0.8 W
Voltage supply	Output loop powered
Approvals	cULus, Class 1 Division 2, IECEx, ATEX 2014/34/EU, CE
Insulation coordination	
EMC standards	EN 61326-1
Galvanic isolation	2-way isolator
Overvoltage category	II
Insulation voltage	3.5 kV
Rated voltage	300 V AC <sub>rms</sub>
Dimensions	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Depth x width x height	mm

Screw connection		PUSH IN	
55 / 6.1 / 79.4		55 / 6.1 / 79.4	

Screw connection	
78.5/9.5 (with end plate included) /88.4	

**Ordering data**

Screw connection	
PUSH IN connection	

Type	Qty.	Order Number
PICOPAK-CI-CO-LP-S	1	2517450000
PICOPAK-CI-CO-LP-P	1	2501110000

Type	Qty.	Order Number
PICOPAK I-I	1	9908800000

**Accessories**

End Plate	
Notes	

Type	Qty.	Order Number
PICOPAK-CI-CO-LP(-S or -P) does not require an end plate		

Type	Qty.	Order Number
End Plate AP1 (1.5 mm)	1	C940096
PICOPAK I-I (9908800000) requires an end plate		

# Network & Automation



**u-mation.**  
**More than Automation.**  
**Digital Solutions.**

# PLC Interfaces & Migration Solutions

Network & Automation



## PLC interfaces and pre-assembled cables

Effective alternative to end-to-end cabling

Aimed at reducing costs, and to save space and time in the construction of electrical cabinets, we offer our universal cabling system for PLCs as an effective alternative to end-to-end cabling design. In addition to our range of pre-assembled cables, front-adaptors and interfaces, we offer interface units and customer-specific wiring concepts which can be optimally integrated into your systems.

## Migration solutions

Weidmüller has teamed with designers to provide a simple and easy solution to migrate your control system. This migration system features universal card adapters and engineered cables. Weidmüller can provide you with the components and information needed to design your migration bill of materials. To start designing your migration system, visit: [www.weidmuller.com/migration](http://www.weidmuller.com/migration)

# PLC Interface Solutions

## Pre-Assembled PLC Specific Cables and Modules

- Plug and Play Solution with double ended cables feature PLC specific connectors, eliminating the need for hardwiring
- Space saving design with jacketed cables for easy and flexible installation on standard DIN-rails
- Flexibility due to complete solutions from all major PLC suppliers and I/O cards for digital and analog signals
- Safe and Secure connections with sealed flat connector and strain relief providing solid connections for use in rugged applications; shielded Sub-D connector to protect analog signals



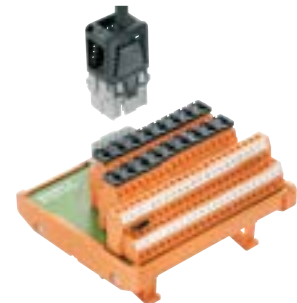
**Encapsulated Flat Connector with Strain Relief for Relay Outputs**

Complete Solutions with PLC Interface Modules and Cables featuring the PLC specific connector on the control side are available for the following major PLC lines:

Manufacturer	Series
Siemens	S7-300
Siemens	S7-400
Telemecanique (Modicon/Square D/Schneider Electric)	Micro
Telemecanique (Modicon/Square D/Schneider Electric)	Premium
Telemecanique (Square D/Schneider Electric)	Twido
Telemecanique (Modicon/Square D/Schneider Electric)	Quantum
Telemecanique (Modicon/Square D/Schneider Electric)	M340
Rockwell	SLC500
Rockwell	Compact Logix
Rockwell	Control Logix
GE Intelligent Platforms	90-30
GE Intelligent Platforms	RX3i
Alspa	8035
Omron	CQM1
Omron	C200H
Omron	CJ1W
ABB	S800



**Shielded Sub-D Connector for Analog Inputs/Outputs**



**Industrial RSV 1.6 Connector for Direct Inputs with Voltage >50V**

# Cable Interface Products

## Standard Cable Interface Products

Weidmüller's multifaceted cable interface products are ideal for interfacing field wiring to high density cables. Designed for quick, simple and accurate plug-in installation, they:

- Accept most industry standard connector types
- Mount on industry standard DIN-rails, providing an excellent complement to rail-mounted products such as programmable controllers
- Reduce the amount of DIN-rail space normally required for field wiring termination
- Use double- and triple-level high-density terminals, saving space
- Require fewer wires to mark and dress
- Offer minimum installation error by connecting the field wiring to premarked printed circuit board terminal blocks that match the cable wiring

## D-Sub Miniature

- Mechanically polarized connector with a metal body and two rows of pins or sockets
- Assembled in standard UL recognized 70 mm (2.76 in), high density 45 mm (1.77 in), and 87 mm (3.43 in) DIN-rail housings.
- Standard pin count: 9, 15, 25, 37 and 50
- Interface units IEC 807-2 DIN 4 1652

Poles	Type	Description	Width	Order Number
<b>70 mm profile</b>				
9	RD-9JS Male	Male connector, 2 Tier screw terminal connection	39.88 mm	<b>9159350000</b>
9	RD-9JS Female	Female connector, 2 Tier screw terminal connection	39.88 mm	<b>9159360000</b>
15	RD-15JS Male	Male connector, 2 Tier screw terminal connection	55.12 mm	<b>9159410000</b>
15	RD-15JS Female	Female connector, 2 Tier screw terminal connection	55.12 mm	<b>9159420000</b>
25	RD-25JS Male	Male connector, 2 Tier screw terminal connection	85.09 mm	<b>9159490000</b>
25	RD-25JS Female	Female connector, 2 Tier screw terminal connection	85.09 mm	<b>9159530000</b>
37	RD-37JS Male	Male connector, 2 Tier screw terminal connection	116.84 mm	<b>9159560000</b>
37	RD-37JS Female	Female connector, 2 Tier screw terminal connection	116.84 mm	<b>9159570000</b>
50	RD-50JS Male	Male connector, 2 Tier screw terminal connection	149.35 mm	<b>9196560000</b>
50	RD-50JS Female	Female connector, 2 Tier screw terminal connection	149.35 mm	<b>9196550000</b>

Poles	Type	Description	Width	Order Number
<b>45 mm profile</b>				
9	RS SD9S UNC LPK2	Male connector, 2 Tier screw terminal connection	50.0 mm	<b>8259010000</b>
9	RS SD9B UNC LPK2	Female connector, 2 Tier screw terminal connection	50.0 mm	<b>8216480000</b>
15	RS SD15S UNC LPK2	Male connector, 2 Tier screw terminal connection	61.0 mm	<b>8233350000</b>
15	RS SD15B UNC LPK2	Female connector, 2 Tier screw terminal connection	61.0 mm	<b>8209730000</b>
25	RS SD25S UNC LPK2	Male connector, 2 Tier screw terminal connection	86.0 mm	<b>8155650000</b>
25	RS SD25B UNC LPK2	Female connector, 2 Tier screw terminal connection	86.0 mm	<b>8155620000</b>
37	RS SD37S UNC LPK2	Male connector, 2 Tier screw terminal connection	116.0 mm	<b>8155660000</b>
37	RS SD37B UNC LPK2	Female connector, 2 Tier screw terminal connection	116.0 mm	<b>8155630000</b>
50	RS SD50S UNC LPK2	Male connector, 2 Tier screw terminal connection	154.0 mm	<b>8155670000</b>
50	RS SD50B UNC LPK2	Female connector, 2 Tier screw terminal connection	154.0 mm	<b>8155640000</b>



D-Sub



D-Sub



Poles	Type	Description	Width	Order Number
<b>87 mm profile</b>				
9	RS SD9S UNC 4.40 LP2N	Male connector, 2 Tier screw terminal connection	45.0 mm	8003901001
9	RS SD9B UNC 4.40 LP2N	Female connector, 2 Tier screw terminal connection	45.0 mm	8003911001
15	RS SD15S UNC 4.40 LP2N	Male connector, 2 Tier screw terminal connection	60.0 mm	8005201001
15	RS SD15B UNC 4.40 LP2N	Female connector, 2 Tier screw terminal connection	60.0 mm	8005211001
25	RS SD25S UNC 4.40 LP2N	Male connector, 2 Tier screw terminal connection	80.0 mm	8005181001
25	RS SD25B UNC 4.40 LP2N	Female connector, 2 Tier screw terminal connection	80.0 mm	8005191001
37	RS SD37S UNC 4.40 LP2N	Male connector, 2 Tier screw terminal connection	110.0 mm	8003881001
37	RS SD37B UNC 4.40 LP2N	Female connector, 2 Tier screw terminal connection	110.0 mm	8003891001
50	RS SD50S UNC 4.40 LP2N	Male connector, 2 Tier screw terminal connection	154.0 mm	8005161001
50	RS SD50B UNC 4.40 LP2N	Female connector, 2 Tier screw terminal connection	154.0 mm	8005171001



D-Sub

**ELCO**

- High current rectangular plug connector with hermaphroditic contact design
- Connection mating and hold down accomplished with guide pins and one center mounted draw screw actuator
- Standard pin count: 38 and 56, all UL recognized

Poles	Description	Cable Connector Orientation	Order Number	Poles	Description	Cable Connector Orientation	Order Number
38	RS-ELCO 38 M/L Male	Left	9121260000	56	RS-ELCO 56 M/L Male	Left	9121310000
38	RS-ELCO 38 F/L Female	Left	9121280000	56	RS-ELCO 56 F/L Female	Left	9121330000
38	RS-ELCO 38 M/R Male	Right	9121270000	56	RS-ELCO 56 M/R Male	Right	9121320000
38	RS-ELCO 38 F/R Female	Right	9121290000	56	RS-ELCO 56 F/R Female	Right	9121340000



ELCO

**IDC Ribbon**

- Designed with polarizing key for guiding and keying the socket connector
- Typical voltage and current: 125 VDC at 1 A
- Assembled in standard UL recognized 70 mm (2.76 in), high density 45 mm (1.77 in), and 87 mm (3.43 in) DIN-rail housings.
- Pin center dimension: 0.100 in
- Standard pin count: 10, 14, 16, 20, 26, 30, 34, 36, 40, 50, 60 and 64

Poles	Type	Description	Width	Order Number
<b>70 mm profile</b>				
10	RI-HDC 10	Male connector, 2 Tier screw terminal connection	39.88 mm	9159110000
14	RI-HDC 14	Male connector, 2 Tier screw terminal connection	49.78 mm	9159120000
16	RI-HDC 16	Male connector, 2 Tier screw terminal connection	55.12 mm	9159130000
20	RI-HDC 20	Male connector, 2 Tier screw terminal connection	64.77 mm	9159140000
26	RI-HDC 26	Male connector, 2 Tier screw terminal connection	84.84 mm	9159150000
30	RI-HDC 30	Male connector, 2 Tier screw terminal connection	94.74 mm	9159160000
34	RI-HDC 34	Male connector, 2 Tier screw terminal connection	104.65 mm	9159170000
40	RI-HDC 40	Male connector, 2 Tier screw terminal connection	120.14 mm	9159180000
50	RI-HDC 50	Male connector, 2 Tier screw terminal connection	142.49 mm	9159190000
60	RI-HDC 60	Male connector, 2 Tier screw terminal connection	175.01 mm	9159200000
64	RI-HDC 64	Male connector, 2 Tier screw terminal connection	181.61 mm	9159210000



IDC Ribbon

Poles	Type	Description	Width	Order Number
<b>45 mm profile</b>				
10	RS F10 LPK 2H/12	Male connector, 2 Tier screw terminal connection	49.0 mm	8155610000
14	RS F14 LPK 2H/16	Male connector, 2 Tier screw terminal connection	56.0 mm	8258980000
16	RS F16 LPK 2H/18	Male connector, 2 Tier screw terminal connection	64.0 mm	8265540000
20	RS F20 LPK 2H/22	Male connector, 2 Tier screw terminal connection	71.0 mm	8155600000
26	RS F26 LPK 2H/28	Male connector, 2 Tier screw terminal connection	86.0 mm	8213470000
34	RS F34 LPK 2H/36	Male connector, 2 Tier screw terminal connection	106.0 mm	8155590000
40	RS F40 LPK 2H/42	Male connector, 2 Tier screw terminal connection	121.0 mm	8155580000
50	RS F50 LPK 2H/52	Male connector, 2 Tier screw terminal connection	150.3 mm	8155570000
60	RS F60 LPK 2H/62	Male connector, 2 Tier screw terminal connection	180.0 mm	8259000000
64	RS F64 LPK 2H/66	Male connector, 2 Tier screw terminal connection	186.0 mm	8155550000



IDC Ribbon

Poles	Type	Description	Width	Order Number
<b>87 mm profile - 2 tier</b>				
10	RS F10 LP2N 5/10	Male connector, 2 Tier screw terminal connection	50.0 mm	0224961001
14	RS F14 LP2N 5/14	Male connector, 2 Tier screw terminal connection	50.0 mm	0225061001
16	RS F16 LP2N 5/16	Male connector, 2 Tier screw terminal connection	55.0 mm	0225161001
20	RS F20 LP2N 5/20	Male connector, 2 Tier screw terminal connection	65.0 mm	0224261001
26	RS F26 LP2N 5/26	Male connector, 2 Tier screw terminal connection	80.0 mm	0224861001
34	RS F34 LP2N 5/34	Male connector, 2 Tier screw terminal connection	110.0 mm	0224361001
40	RS F40 LP2N 5/40	Male connector, 2 Tier screw terminal connection	115.0 mm	0224461001
50	RS F50 LP2N 5/50	Male connector, 2 Tier screw terminal connection	145.0 mm	0224561001
60	RS F60 LP2N 5/60	Male connector, 2 Tier screw terminal connection	180.0 mm	0224661001
64	RS F64 LP2N 5/64	Male connector, 2 Tier screw terminal connection	180.0 mm	0224761001



2 Tier IDC Ribbon

Poles	Type	Description	Width	Order Number
<b>87 mm profile - 3 tier</b>				
10	RS F10 LP3R 3/12	Male connector, 3 Tier screw terminal connection	40.0 mm	8012850000
14	RS F14 LP3R 3/14	Male connector, 3 Tier screw terminal connection	45.0 mm	8012860000
16	RS F16 LP3R 3/18	Male connector, 3 Tier screw terminal connection	50.0 mm	8012870000
20	RS F20 LP3R 3/21	Male connector, 3 Tier screw terminal connection	50.0 mm	8012910000
26	RS F26 LP3R 3/27	Male connector, 3 Tier screw terminal connection	55.0 mm	8012920000
34	RS F34 LP3R 3/36	Male connector, 3 Tier screw terminal connection	70.0 mm	8012930000
40	RS F40 LP3R 3/42	Male connector, 3 Tier screw terminal connection	80.0 mm	8012940000
50	RS F50 LP3R 3/51	Male connector, 3 Tier screw terminal connection	95.0 mm	8012950000
60	RS F60 LP3R 3/63	Male connector, 3 Tier screw terminal connection	115.0 mm	8012960000
64	RS F64 LP3R 3/66	Male connector, 3 Tier screw terminal connection	120.0 mm	8012970000



3 Tier IDC Ribbon

**RJ45 Interface**

- DIN-rail mountable RJ45 Interface
- Terminate 4, 6, 8 conductors
- Rated at 60 V, 100 mA per contact, 12...26 AWG

Contacts	Description	Order Number
4	RJ-4A	9121710000
6	RJ-6A	9119150000
8	RJ-8A	9119160000



RJ45

**RS RJ45 Interface**

- Accepts 8 shielded signals
- Overvoltage Category 2
- RJ45/Cat 5

Contacts	Description	Order Number
8	RS-RJ45	8611320000



RS RJ45

# Migration Solutions

## Streamline Your DCS Migration

Weidmüller's universal conversion/migration platform will substantially reduce the time and expense of updating your legacy systems to any new DCS.



### Global approvals



The card adapters are cURus approved and the certified cables are UL and CSA listed. In addition, the cables are RoHS and FT4 rated at 300V.

### Uniquely designed solution

The key to Weidmüller's migration platform is in the design. It permits your existing field wiring to remain in place and undisturbed on the front panel adapter and eliminates the need to wire-trace or ring-out.

### Compatibility means flexibility

The assembly is a universal conversion/migration system for all legacy Schneider Electric Modicon Quantum, Allen-Bradley PLC 5 1771 and Honeywell IPC-620 DCS systems, enabling you to seamlessly migrate to any new control system.

### Minimal components maximize migration efficiency

Our migration solution includes an adapter and a standard cable harness. Custom cable options are available on request at [www.weidmuller.com/migration](http://www.weidmuller.com/migration).



Card Adapter



Connectors



Flying Ferrule Leads



UL & CSA approved Cables

## Migrate and test in hours, not weeks.

Here's how easy it is to migrate from your current DCS by using Weidmüller's patented migration platform:

### Start



Existing Control System

### Step 1



Remove existing Field Wiring adapters

### Step 2



Remove existing controller cards

### Step 3



Replace controller card with Weidmüller adapter card

### Step 4



Reattach existing Field Wiring adapters

### Step 5



Connect cable with connectors to adapter card

### Finished



Completed & migrated DCS system

## Benefits

- Keep your existing field terminations landed. No ring out needed!
- Perform your DCS conversion in hours instead of weeks.
- All components are plug-and-play with keyed connectors to eliminate any chance of wiring errors.

## Engineered Cables

Select the cable configuration that best fits your application

Specially engineered cables are designed and built to make the migration of your DCS simple and easy. The Migration Cable Configurator, a handy cable designer utility, is available to make cable design, selection, and cost evaluation straightforward and fast. Learn more at [www.weidmuller.com/migration](http://www.weidmuller.com/migration).



# Schneider Electric Modicon Quantum Universal Card Adapter



## Features

- Feed-through connections
- Modicon Quantum conversion to pluggable connector
- 40-point cards

## Ordering data

Type	Qty	Order Number
40-point Modicon Quantum	1	6720001822

## Technical data

### Connection data

Original Field Wire Adapter	Card edge fingers on PCB for legacy style connectors
-----------------------------	--

Weidmüller Migration Adapter	3.5 pitch S2CD - THR headers Four B2CF plugs with PUSH IN connection (Order Number 1277890000)
------------------------------	--

### Rated data

Rated voltage	125VAC/125VDC max.
---------------	--------------------

Max. current per channel	4A per point max. 32 Amps per whole assembly
--------------------------	---

Operating temperature	-20°C to 50°C 0°C to 50°C (UL)
-----------------------	-----------------------------------

Storage temperature	-30°C to 70°C
---------------------	---------------

### Approvals

Standards	cURus (E141197)
-----------	-----------------

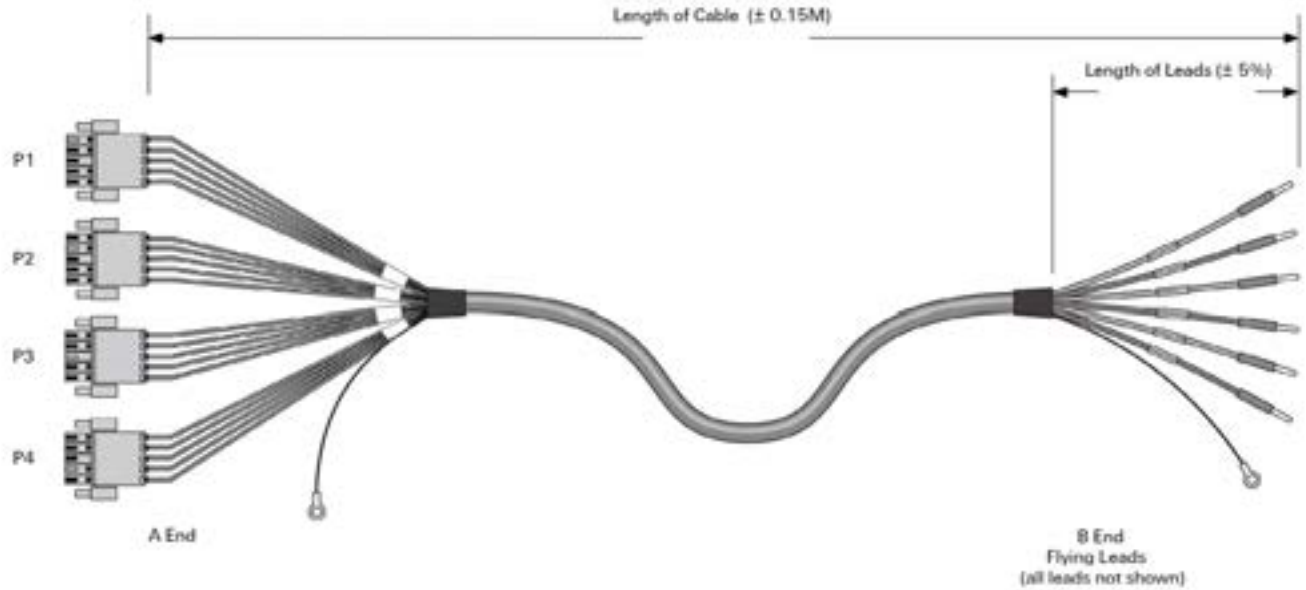
### Physicals

	Designed to fit in existing I/O chassis
--	---

<b>Note:</b>	<b>Cabling not included</b>
--------------	-----------------------------



# Modicon Quantum Migration Cables



Example: MQ1 - FFL10 - 18 - 010

MQ1 - FFL 10 - 18 - 010

Marshalling Cable Modicon Quantum 40 Terminal Points	Flying Leads Type, B End		Flying Leads Length, B End*		Wire AWG		Length of Cable in Meters*	
		FFL	Ferruled Flying Leads	03	0.3 meters	22	22 AWG	1.5
	BFL	Blunt-End Flying Leads	•	•			•	•
	TFL	Tinned Flying Leads	10	1.0 meters	18	18 AWG	005	5.0 meters
	RFL	Ring Lug Flying Leads	•	•			•	•
			99	9.9 meters			010	10.0 meters
			•	•			•	•
							100	100.0 meters

- \* Notes:
- Lengths are customizable to your needs
  - Custom cables are available on request

Visit [www.weidmuller.com/migration](http://www.weidmuller.com/migration) to design your own custom migration cables

# Allen-Bradley PLC 5 1771 Universal Card Adaptors

- Feed through connections
- PLC 5 1771 conversion to pluggable connector(s)
- 10-, 12-, 18-, 21- or 40-point cards



## Technical data

Connection data	
Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 12-pin SL header
Type	Screw type connection
Rated data	
Rated voltage	250V max., 150V max. (UR)
Max. current per channel	5A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197)
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 12-pin SL header
Type	Screw type connection
Rated data	
Rated voltage	250V max., 150V max. (UR)
Max. current per channel	5A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197)
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

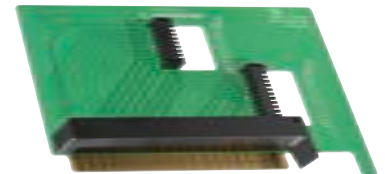
Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 12-pin SL header
Type	Screw type connection
Rated data	
Rated voltage	250V max., 150V max. (UR)
Max. current per channel	5A
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197)
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

## Ordering data

Type	Qty	Order Number
10-point PLC 5 1771-WA/WC carrier	1	6720001398
Note		

Type	Qty	Order Number
12-point PLC 5 1771-WB/WD carrier	1	6720001397
Note		

Type	Qty	Order Number
12-point PLC 5 1771-WB/WD carrier	1	6720001397
Note		



## Technical data

Connection data	
Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 22-pin S2L header
Type	Tension type connection
Rated data	
Rated voltage	150V max.
Max. current per channel	5A per point max. 10A per whole assembly
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197)
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 22-pin S2L header
Type	Tension type connection
Rated data	
Rated voltage	120/240V max. 1Ø3W+G, 50-60Hz
Max. current per channel	3A per point max. 16A per whole assembly
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197), CE
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 18-pin + 22-pin S2L header
Type	Tension type connection
Rated data	
Rated voltage	250V max., 150V max. (UR)
Max. current per channel	5A per point max. 10A per assembly
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197)
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

Process side	Card edge fingers on PWB for legacy style connectors
Type	OEM Connector
Control side	One 3.5 pitch 18-pin + 22-pin S2L header
Type	Tension type connection
Rated data	
Rated voltage	250V max., 150V max. (UR)
Max. current per channel	5A per point max. 10A per assembly
Operating temperature	0°C to +50°C
Storage temperature	0°C to +50°C
Approvals	
Standards	cURus (E141197)
Physicals	
	Designed to fit in existing I/O rack
Note	
	Cabling not included

## Ordering data

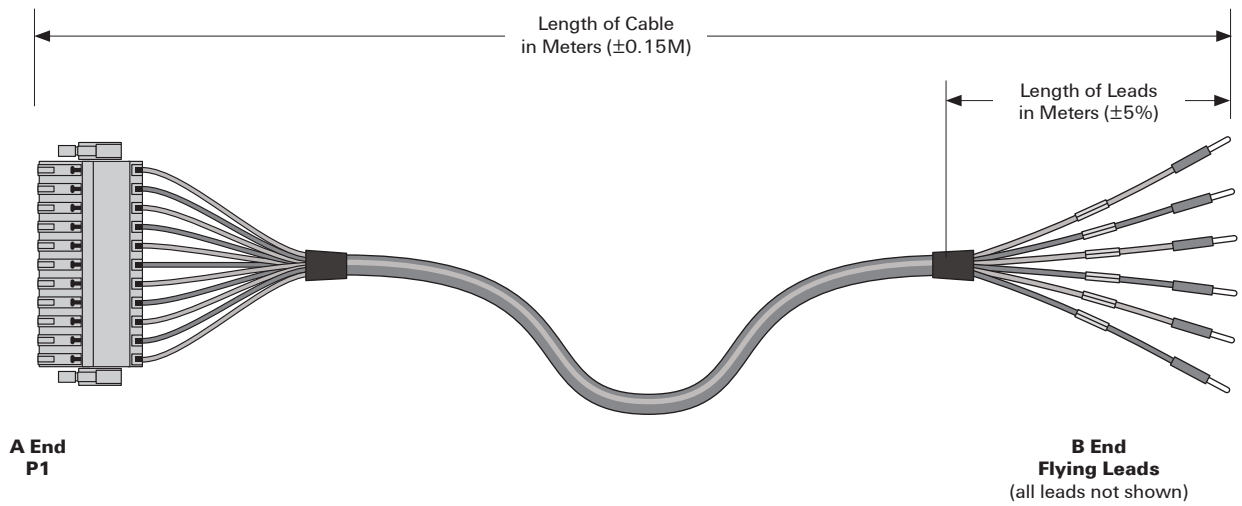
Type	Qty	Order Number
18-point PLC 5 1771-WI carrier	1	6720001399
Note		

Type	Qty	Order Number
21-point PLC 5 1771-WG carrier	1	7940125466
21-point PLC 5 1771-WH/WHF/WHFB carrier	1	7940125460
Note		

Type	Qty	Order Number
40-point PLC 5 1771-WN carrier	1	6720001400
Note		

Type	Qty	Order Number
40-point PLC 5 1771-WN carrier	1	6720001400
Note		

# PLC 5 Migration Cables



## Example: MCP52FFL101812010

MC		P52		FFL		10		18		12		010	
Marshalling Cable PLC5		Cable Entry, A End		Lead Type, B End		Length of Leads, B End*		Wire AWG		No. of Wires		Length of Cable in Meters*	
P51	10 Terminal Points	FFL	Ferruled Flying Leads	03	0.3 meters	22	22 AWG	10	10 Points	1.5	1.5 meters		
P52	12 Terminal Points	BFL	Blunt-End Flying Leads	05	0.5 meters	18	18 AWG	12	12 Points	005	5.0 meters		
P53	18 Terminal Points	TFL	Tinned Flying Leads	10	1.0 meters			18	18 Points	010	10.0 meters		
P54	21 Terminal Points	RFL	Ring Lug Flying Leads	15	1.5 meters			21	21 Points	100	100.0 meters		
P55	40 Terminal Points			99	9.9 meters			40	40 Points				

\*Note: Lengths can be customized to your needs

Visit [www.weidmuller.com/migration](http://www.weidmuller.com/migration) to design your own custom migration cables.

# Honeywell IPC 620 Universal Card Adaptors

- Feed through connections
- IPC-620 conversion to pluggable connector(s)
- 12-, 22-, 24-, 34- or 38-point cards



## Technical data

Connection data					
Process side	Card edge fingers on PWB for legacy style connectors	Card edge fingers on PWB for legacy style connectors	Card edge fingers on PWB for legacy style connectors	Card edge fingers on PWB for legacy style connectors	Card edge fingers on PWB for legacy style connectors
Type	Tension Clamp, OEM	Tension Clamp, OEM	Tension Clamp, OEM	Tension Clamp, OEM	Tension Clamp, OEM
Control side	One 3.5 pitch 12-point S2L connector	One 3.5 pitch 12-point S2L connector	One 3.5 pitch 22-point S2L connector	One 3.5 pitch 22-point S2L connector	One 3.5 pitch 22-point S2L connector
Type	Tension type connection	Tension type connection	Tension type connection	Tension type connection	Tension type connection
Rated data					
Rated voltage	150V max.	150V max.	150V max.	150V max.	150V max.
Max. current per channel	5A	5A	5A	5A	5A
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Approvals					
Standards	cURus (E141197)	cURus (E141197)	cURus (E141197)	cURus (E141197)	cURus (E141197)
Physicals					
	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack
Note					
	Cablings not included	Cablings not included	Cablings not included	Cablings not included	Cablings not included

## Ordering data

Type	Qty	Order Number	Type	Qty	Order Number
12-point IPC-620 carrier	1	<b>6720000787</b>	22-point IPC-620 carrier	1	<b>6720000788</b>
Reference Honeywell Terminal Block 621-9949			Reference Honeywell Terminal Block 621-9950		

## Note



## Technical data

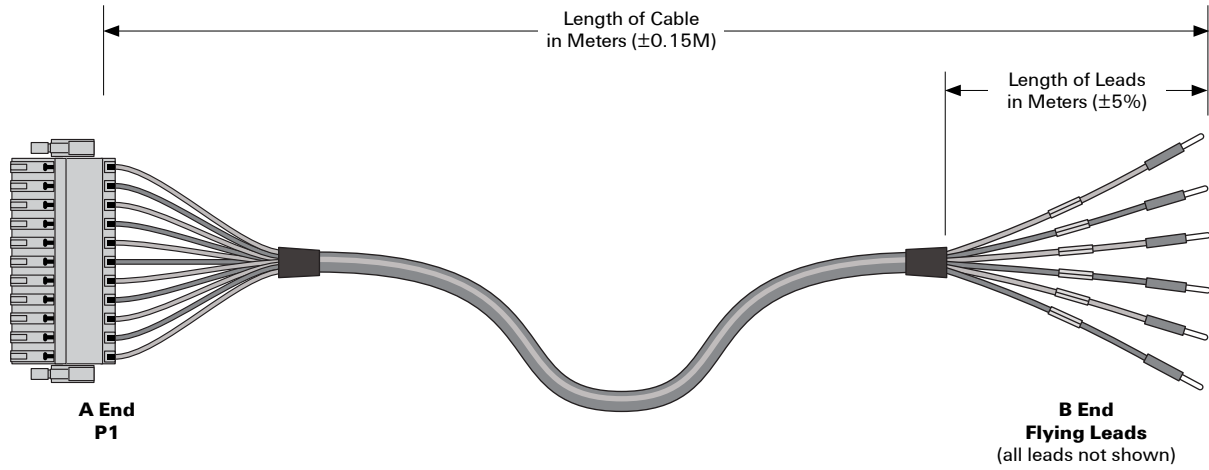
Connection data							
Process side	Two SL 5.00 pitch headers to mate to legacy connectors (2 x 19 points – 38 points total)	One 24-point SL 5.00 pitch header to mate to legacy connectors	One 24-point SL 5.00 pitch header to mate to legacy connectors	Two SL 5.00 pitch headers to mate to legacy connectors (2 x 17 points – 34 points total)	Two SL 5.00 pitch headers to mate to legacy connectors (2 x 17 points – 34 points total)	Two SL 5.00 pitch headers to mate to legacy connectors (2 x 17 points – 34 points total)	Two SL 5.00 pitch headers to mate to legacy connectors (2 x 17 points – 34 points total)
Type	Screw type connection, OEM	Screw type connection, OEM	Screw type connection, OEM	Screw type connection, OEM	Screw type connection, OEM	Screw type connection, OEM	Screw type connection, OEM
Control side	Two 5.08 pitch 20-point SL headers	One 3.5 pitch 24-point S2L header	One 3.5 pitch 24-point S2L header	Two 5.08 pitch 20-pin SL headers	Two 5.08 pitch 20-pin SL headers	Two 5.08 pitch 20-pin SL headers	Two 5.08 pitch 20-pin SL headers
Type	Screw type connection	Tension type connection	Tension type connection	Screw type connection	Screw type connection	Screw type connection	Screw type connection
Rated data							
Rated voltage	125V max.	50V max.	50V max.	125V max.	125V max.	125V max.	125V max.
Max. current per channel	3A per point max. 10A per whole assembly	3A per point max. 10A per whole assembly	3A per point max. 10A per whole assembly	5A per point max. 12A per whole assembly	5A per point max. 12A per whole assembly	5A per point max. 12A per whole assembly	5A per point max. 12A per whole assembly
Operating temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Approvals							
Standards	cURus (E141197)	cURus (E141197)	cURus (E141197)	cURus (E141197)	cURus (E141197)	cURus (E141197)	cURus (E141197)
Physicals							
	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack	Designed to fit in existing I/O rack
Note							
	Cablings not included	Cablings not included	Cablings not included	Cablings not included	Cablings not included	Cablings not included	Cablings not included

## Ordering data

Type	Qty	Order Number	Type	Qty	Order Number	Type	Qty	Order Number
38-point IPC-620 carrier	1	<b>6720001225</b>	24-point IPC-620 carrier	1	<b>6720001226</b>	34-point IPC-620 carrier	1	<b>6720001328</b>
Ref. Honeywell Terminal Block 621-9977 or -9976			Ref. Honeywell Terminal Block 621-9954					

## Note

# IPC 620 Migration Cables



**Example: MCB2LFFL101822010**

Marshalling Cable IPC 620	MC	B2L	FFL	10	18	22	010			
	Cable Entry, A End	Lead Type, B End	Length of Leads, B End*		Wire AWG		No. of Wires	Length of Cable in Meters*		
B1L	12 Terminal Points	FFL Ferruled Flying Leads	03	0.3 meters	22	22 AWG	12	12 Points	1.5	1.5 meters
B2L	22 Terminal Points	BFL Blunt-End Flying Leads	•	•	18	18 AWG	22	22 Points	005	5.0 meters
B3L	24 Terminal Points	TFL Tinned Flying Leads	10	1.0 meters			24	24 Points	010	10.0 meters
B4L	38 Terminal Points	RFL Ring Lug Flying Leads	•	•			38	38 Points	100	100.0 meters
B5L	34 Terminal Points		99	9.9 meters			34	34 Points		

Visit [www.weidmuller.com/migration](http://www.weidmuller.com/migration) to design your own custom migration cables



# PLC & Remote I/O Solutions

Network & Automation



## Reliability in the transmission of signals and data

u-remote offers the perfect solution for all common areas of application within machinery construction. Whether it's used as a pure panel system, in mixed IP20 and IP67 applications, or even positioned directly in the field for signal connection, u-remote grants you complete freedom to create a flexible I/O architecture and gives you the benefits of an integrated complete system.

# u-control

Our formula: "Compact. Flexible. Secure. **u-control**"

The constantly increasing growth of data volumes worldwide requires even more powerful and flexible control solutions. Our u-control 2000 hardware - along with the suitable engineering environment from our u-create software portfolio - provides you with a flexible control system for automation or digitalization.

The controllers modular design is based on the remote I/O system u-remote, and allows for needs-based expansion to include other components from the u-mation family.

For modern IoT applications, automation technology needs to be increasingly more powerful and adaptable. u-mation offers a coordinated hardware portfolio designed for the future-proof preparation of your machines and systems.



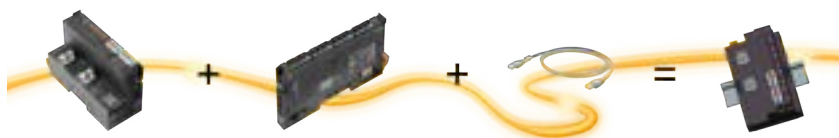
## Controls (PLC)

Description	System Data	Type	Order Number
Controller, IP20, u-control 2000 web, Automation Controller, Web-based	2x Ethernet TCP/IP, 1x Micro USB, Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM, 4 GB memory (Flash), 32 GB via microSD, up to 32 IO modules	UC20-WL2000-AC	1334950000
Controller, IP20, u-control 2000 web, IoT Controller, Web-based, incl. Engineering Tool u-create IoT (node-RED)	2x Ethernet TCP/IP, 1x Micro USB, Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM, 4 GB memory (Flash), 32 GB via microSD, up to 32 IO modules	UC20-WL2000-IOT	1334990000
Controller, IP20, u-control 2000 studio, OpenLinux Automation Controller with EtherCAT interface	2x Ethernet TCP/IP, 1x Micro USB, Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM, 4 GB memory (Flash), 32 GB via microSD, up to 32 IO modules	UC20-SL2000-OLAC-EC	2638920000

## Engineering and Visualization Tools

Software	Description	Type	Order Number
<b>u-create Studio</b>	Works with the u-control 2000 studio, CODESYS - based software	U-CREATE STUDIO	2660130000
<b>PROCON Web</b>	Scalable and platform-independent visualization software		
u-create PROCON Web Designer	Operating system: Windows. Configurable target system: u-control Studio Runtime. Up to 100 tags.	U-CREATE-PROCON-WEB-D-ES-100	2705820000
	Operating system: Windows. Configurable target system: u-control Studio Runtime. Up to 2000 tags.	U-CREATE-PROCON-WEB-D-ES-2000	2705830000
u-create PROCON Web Runtime	Platform for runtime system: u-control. Up to 2000 tags.	U-CREATE-PROCON-WEB-RT-ES-2000	2708630000

Learn more: [www.weidmuller.com/software](http://www.weidmuller.com/software)



Explore our application solutions "from data to value" with our comprehensive and cutting-edge IIoT portfolio

[www.weidmuller.com/iiot](http://www.weidmuller.com/iiot)



# Remote I/O Solutions

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

Weidmüller's u-remote is an IP20 remote I/O solution designed with the user in mind. It is designed to work with virtually all PLC and HMI or Soft PLC.

- Only I/O system with individual pluggable connectors per channel
- Built in webserver with "RUN" mode capabilities
- Multifunction electronics
- Analog I/O points can be configured for individual measurement ranges per channel
- Hot swappable; completely modular system
- Narrow size of 11.5mm per slice for all channel slices
- LED indication per I/O point
- Isolated 10A current paths
- USB access on every fieldbus coupler



## Fieldbus Coupler

Fieldbus Protocol	Connection	Transmission Rate	Type	Order Number
PROFIBUS DP	9-pole SUB-d plug	12 Mbps	UR20-FBC-PB-DP	2614380000
PROFINET IO with RT& IRT	2x RJ45	100 Mbps	UR20-FBC-PN-IRT-V2	2566380000
EtherCAT	2x RJ45	100 Mbps	UR20-FBC-EC	1334910000
Ethernet/IP	2x RJ45	100 Mbps	UR20-FBC-EIP	1334920000
FBC IEC 61162-450	2x RJ45	100 Mbps	UR20-FBC-IEC61162-450	2661310000
Modbus TCP	2x RJ45	100 Mbps	UR20-FBC-MOD-TCP-V2	2476450000
CANopen	Plug-in PCB connector	1 Mbps	UR20-FBC-CAN	1334890000
DeviceNet	Plug-in PCB connector	500 Kbps	UR20-FBC-DN	1334900000
CC Link	Plug-in PCB connector	10 Mbps	UR20-FBC-CC	2625010000
<b>ECO Line</b>				
PROFINET IO	2x RJ45	100 Mbps	UR20-FBC-PN-ECO	2659680000
EtherCAT	2x RJ45	100 Mbps	UR20-FBC-EC-ECO	2659690000
Modbus TCP	2x RJ45	100 Mbps	UR20-FBC-MOD-TCP-ECO	2659700000



## Digital Input Modules

Inputs	Sensor Connection	Input	Type	Order Number
4 digital inputs	2-wire, 3-wire, 3-wire+FE	24 VDC, P-switching	UR20-4DI-P	1315170000
4 digital inputs	2-wire, 3-wire, 3-wire+FE	24 VDC, N-switching	UR20-4DI-N	1315350000
4 digital inputs	2-wire	110 – 230 VAC	UR20-4DI-2W-230V-AC	1550070000**
4 digital inputs	2-wire, 3-wire	24 VDC, P-switching	UR20-4DI-P-3W	2009360000
8 digital inputs	2-wire	24 VDC, P-switching	UR20-8DI-P-2W	1315180000
8 digital inputs	2-wire, 3-wire	24 VDC, P-switching	UR20-8DI-P-3W	1394400000
8 digital inputs	2-wire, 3-wire, IDC	24 VDC, P-switching	UR20-8DI-P-3W-HD	1315190000*
8 digital inputs	2-wire, 3-wire	24 VDC, N-switching	UR20-8DI-N-3W	1315370000
8 digital inputs	2-wire	24 V DC and 48 V DC	UR20-8DI-HSO-2W	2457240000
16 digital inputs	1-wire	24 VDC, P-switching	UR20-16DI-P	1315200000
16 digital inputs	1-wire	24 VDC, N-switching	UR20-16DI-N	1315390000
16 digital inputs	PLC interface	24 VDC, P-switching	UR20-16DI-P-PLC-INT	1315210000
16 digital inputs	PLC interface	24 VDC, N-switching	UR20-16DI-N-PLC-INT	1315400000
<b>Time Stamp</b>				
2 digital inputs	2-wire, 3-wire, 3-wire+FE	24 VDC, P-switching	UR20-2DI-P-TS	1460140000
4 digital inputs	2-wire, 3-wire, 3-wire+FE	24 VDC, P-switching	UR20-4DI-P-TS	1460150000

\*Required HD connectors in Accessories section

\*\*Consult factory for availability



## Digital Output Modules

Outputs	Actuator Connection	Output/channel	Type	Order Number
4 digital outputs	2-wire, 3-wire, 3-wire+FE	0.5 A, P-switching	UR20-4DO-P	1315220000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	0.5 A, N-switching	UR20-4DO-N	1315410000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	2.0 A, P-switching	UR20-4DO-P-2A	1315230000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	2.0 A, N-switching	UR20-4DO-N-2A	1315420000
4 digital outputs	Push/Pull	2.0 A, P/N-switching	UR20-4DO-PN-2A	1394420000
4 digital outputs	2-wire	48 V AC/DC	UR20-4DO-ISO-4A	2457250000
8 digital outputs	2-wire	0.5 A, P-switching	UR20-8DO-P	1315240000
8 digital outputs	2-wire	0.5 A, N-switching	UR20-8DO-N	1315430000
8 digital outputs	2-wire, IDC	0.5 A, P-switching	UR20-8DO-P-HD	1509830000*
16 digital outputs	1-wire	0.5 A, P-switching	UR20-16DO-P	1315250000
16 digital outputs	1-wire	0.5 A, N-switching	UR20-16DO-N	1315440000
16 digital outputs	PLC interface	0.5 A, N-switching	UR20-16DO-N-PLC-INT	1315450000
16 digital outputs	PLC interface	0.5 A, P-switching	UR20-16DO-P-PLC-INT	1315270000
<b>Relay Output/1CO</b>				
4 digital outputs	Change over contact	277 VAC/DC/5.0 A	UR20-4RO-CO-255	1315550000
<b>Solid-state Output</b>				
4 digital outputs	SSR/triac	277 VAC/1.0 A	UR20-4RO-SSR-255	1315540000



## Digital Input and Output Modules

Outputs	Actuator Connection	Output/channel	Type	Order Number
8 digital Inputs / 8 digital outputs	2-wire, 3-wire	24 VDC, P-switching	UR20-8DIO-P-3W-DIAG	2456530000

### No Separate Programming Software Required.

Embedded webserver can be accessed via iPad/Android/Windows based systems.

#### u-remote Configurator

- Automatic power calculations
- Automatic calculation of slices based on user requirements
- Auto labelling and integration into M-Print Pro
- Export to numerous CAD programs
- Custom Order Number and labelling
- 3D viewing and renderings



## Analog Input Modules

Inputs	Sensor Connection	Resolution	Type	Order Number
<b>Current (0 – 20 mA, 4 – 20 mA), Voltage (0 – 5 V, ±5 V, 0 – 10 V, ±10 V, 1 – 5 V, 2 – 10 V)</b>				
4 selectable inputs	2-wire, 3-wire, 3-wire+FE	12 Bit	UR20-4AI-UI-12	1394390000
4 selectable inputs	2-wire, 3-wire, 3-wire+FE	16 Bit	UR20-4AI-UI-16	1315620000
4 selectable inputs	2-wire, 3-wire, 3-wire+FE	16 Bit with channel diagnostics	UR20-4AI-UI-16-DIAG	1315690000
4 selectable inputs	IDC 2-wire, 3-wire, 3-wire+FE	16 Bit	UR20-4AI-UI-16-HD	1506920000*
4 selectable inputs	IDC 2-wire, 3-wire, 3-wire+FE	16 Bit with channel diagnostics	UR20-4AI-UI-16-DIAG-HD	1506910000*
4 selectable inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-H-HART-16-DIAG	2617520000
4 differential inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-UI-DIF-16-DIAG	1993880000
4 differential inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-UI-DIF-32-DIAG	2544660000
<b>Current (0 – 20 mA, 4 – 20 mA)</b>				
8 selectable inputs	PLC-Interface, 2-wire	16 Bit	UR20-8AI-PLC-INT	1315670000**
8 selectable inputs	IDC 2-wire, 3-wire, 3-wire+FE	16 Bit	UR20-8AI-16-HD	1315650000***
8 selectable inputs	IDC 2-wire, 3-wire, 3-wire+FE	16 Bit with channel diagnostics	UR20-8AI-16-DIAG-HD	1315720000***



\*Required HD connectors in Accessories section

\*\*Consult factory for availability

## Analog Output Modules

Outputs	Actuator Connection	Resolution	Type	Order Number
<b>Current (0 – 20 mA, 4 – 20 mA), Voltage (0 – 5 V, 0 – 10 V, ±10 V, 1 – 5 V, 2 – 10 V)</b>				
4 selectable outputs	2-wire, 4-wire	16 Bit	UR20-4AO-UI-16	1315680000
4 selectable outputs	2-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AO-UI-16-DIAG	1315730000
4 selectable outputs	2-wire, 4-wire	16 Bit	UR20-4AO-UI-16-HD	1510690000**
4 selectable outputs	2-wire or 4-wire	16 Bit	UR20-4AO-UI-16-M	2453880000
4 selectable outputs	2-wire or 4-wire	16 Bit with individual channel diagnosis	UR20-4AO-UI-16-M-DIAG	2453870000
4 selectable outputs	2-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AO-UI-16-DIAG-HD	1506930000**

## Temperature Modules and Potentiometer Input Module

Inputs	Sensor Connection	Resolution	Type	Order Number
<b>Thermocouple Sensors: J, K, T, B, N, E, R, S, L, U, C, mV</b>				
4 analog inputs	2 wire	16 Bit with individual channel diagnosis	UR20-4AI-TC-DIAG	1315710000
<b>RTD Sensors: Pt100, 200, 500, 1000; Ni100, 120, 200, 500, 1000; Cu10; resistances from 40 Ω – 4000 Ω</b>				
4 analog inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-RTD-DIAG	1315700000
4 analog inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-RTD-HP-DIAG	2456540000
8 analog inputs	2-wire	16 Bit with individual channel diagnosis	UR20-8AI-RTD-DIAG-2W	2555940000
<b>Potentiometer; Measuring range from 300 Ω ... 50 kΩ</b>				
4 analog inputs	3-wire, 3-wire+FE	16 Bit with individual channel diagnosis	UR20-4AI-R-HS-16-DIAG	2001670000

## Pulse Width Modulation and Stepper Motor Modules

Outputs	Actuator Connection	Output/channel	Type	Order Number
2 digital outputs	Push/Pull / High-side (selectable)	PWM / 0.5 A	UR20-2PWM-0.5A	1315600000
2 digital outputs	Push/Pull / High-side (selectable)	PWM / 2.0 A	UR20-2PWM-2A	1315610000
<b>Stepper Motor Module</b>				
6 digital Inputs / 2 digital outputs	2-wire, 3-wire	24 VDC, P-switching	UR20-1SM-50W-6DI2DO-P	2489830000

## Counter Modules

Channels	Function	Frequency	Type	Order Number
1 channel	Counter, latch, gate, reset, digital output	100 KHz	UR20-1CNT-100-1DO	1315570000
2 channel	Counter	100 KHz	UR20-2CNT-100	1315590000
2 channel	Frequency counter	100 KHz	UR20-2FCNT-100	1508080000
1 channel	Counter, reset	500 KHz	UR20-1CNT-500	1315580000**

## Serial Interface Modules

Inputs	Actuator Connection	Transfer Rate	Type	Order Number
<b>Synchronous Serial Interface (SSI)</b>				
1 SSI input	RS422	125 KHz – 3 MHz	UR20-1SSI	1508090000**
<b>Serial COMM interface</b>				
1 channel	Serial communication (RS232, RS485, RS422)	300 -115200 Bps	UR20-1COM-232-485-422	1315750000
<b>SAI Subbus Interface</b>				
1 channel	SAI-PRO Subbus	250 kBps	UR20-1COM-SAI-PRO	2007430000
<b>IO Link Master Interface</b>				
4 Digital Inputs / 4 IO Link Interface	DIO / IO Link channel	4.8 kBaud / 38.4 kBaud / 230.4 kBaud	UR20-4COM-IO-LINK	1315740000

\*Required HD connectors in Accessories section

\*\*Consult factory for availability





## Designed with Safety in Mind

Using a standard PLC, machine operators achieve a maximum degree of safety and complete control. All input sensors are independently supplied via separate voltage paths and report the current machine or system status to the control unit. Restart is performed either manually or via the auto-start function. All modules are certified by TÜV Nord and bear the “TÜV type test approved” symbol.

- Receive complete status information about the inputs and outputs thanks to the complete integration of the safe power-feed modules in the u-remote system. In a solution relying on external devices, this would not be possible in this form.
- The PF-SIL can be installed at any position in a station. All subsequent output modules can be safely disconnected from the PF-SIL module.
- Emergency stop buttons as well as safety light curtains can be connected.
- For the default, if no emergency stop exists, either an auto start or manual start can be selected by the two inputs.
- Auto start: The safe output current path will be switched on again immediately after resetting the emergency stop circuit.
- Manual reset: The output current path is only switched on again after the reset button has been pressed for a time between 0.2 and 2 seconds.



## Safe Power-feed Modules

Integrated Safety	Inputs	Outputs	Type	Order Number	
	Attainable safety standard: Category 4, PL <sub>e</sub> (acc. to DIN EN ISO 13849-1); SIL 3 (acc. to IEC 61508)				
	<b>Connection for one emergency stop circuit</b>				
	1 digital input	OSSD output	UR20-PF-O-1DI-SIL	<b>1335030000</b>	
	<b>Connection for two emergency stop circuits</b>				
2 digital inputs	OSSD output	UR20-PF-O-2DI-SIL	<b>1335050000</b>		
<b>Connection for two emergency stop circuits, switch-off following adjustable delay</b>					
2 digital inputs	OSSD output, SS1 output	UR20-PF-O-2DI-DELAY-SIL	<b>1335040000</b>		



## Safe I/O Modules

Integrated Safety	Inputs	Outputs	Protocol	Type	Order Number
	Attainable safety standard: Category 4, PL <sub>e</sub> (acc. to DIN EN ISO 13849-1); SIL 3 (acc. to IEC 61508)				
	4 digital inputs	4 digital outputs	PROFIsafe	UR20-4DI-4DO-P-FSPS	<b>1335060000**</b>
	8 digital inputs		PROFIsafe	UR20-8DI-P-FSPS	<b>1335070000**</b>
	4 digital inputs	4 digital outputs	Fail Safe over EtherCAT (FS <sub>o</sub> E)	UR20-4DI-4DO-P-FSOE	<b>1529780000**</b>
8 digital inputs		Fail Safe over EtherCAT (FS <sub>o</sub> E)	UR20-8DI-P-FSOE	<b>1529800000**</b>	

## Accessories

Function	Note	Type	Order Number
Termination kit	Included in the box with every Fieldbus coupler	UR20-EBK-ACC	<b>1346610000</b>
Module marker	Blank	DEK 5/8-11.5 MC NE WS	<b>1341630000</b>
Connection marker for pusher	Blank	PM 2.7/2.6 MC NE WS	<b>1323710000</b>
Swivel marker	Projects over on-board wiring	UR20-SM-ACC	<b>1339920000</b>
Sign for swivel marker	1 roll = 60 labels = 1 PU (printable on laser printer)	ESO UR20 DIN A4 WS	<b>1429430000</b>
Empty slot module		UR20-ES	<b>1315770000</b>
HD plug	Quantity = 8 pieces per pack	UR20-PG0.35	<b>1469340000</b>

\*Required HD connectors in Accessories section \*\*Consult factory for availability



Example set-up of safe I/O modules (FS<sub>o</sub>) in a u-remote station

# u-remote IP67

Weidmüller u-remote – our innovative remote I/O concept with IP 67 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, no more downtime. For considerably improved performance and greater productivity, offering more flexible automation.

u-remote's IP67 family combines all the field benefits offered by u-remote IP20 in a device with an increased degree of protection and is perfectly equipped for signal connection outside of the panel.

It demonstrates a high degree of flexibility in terms of the connection options with IO-Link and scores top marks with a variable power supply. Another impressive feature of IP67 is its multiprotocol capability. For you, this translates into less effort, fewer costs and maximum performance at the same time.

u-remote stands for "More Performance". Simplified.



## Features and Benefits

- Robust design
- Productivity in a very confined space
- Top performance despite temperature fluctuations
- Adjust a protocol instead of swapping a module
- Active communication in the field with I/O Link



## Multiprotocol

Type	Module variants	Bus system	Transmission Rate	Input current, low	Qty	Order Number
UR67-MP-78-8DIDO-12-60M	8 digital inputs, 8 digital outputs	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	10/100 Mbit/s	Type 1 in acc. with IEC 61131-2	1	2426320000
UR67-MP-HP-8DIDO-12-60M	8 digital inputs, 8 digital outputs	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	10/100 Mbit/s	Type 1 in acc. with IEC 61131-2	1	2426290000
UR67-MP-78-16DI-12-60M	16 digital inputs	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	10/100 Mbit/s	Type 1 in acc. with IEC 61131-2	1	2426300000
UR67-MP-HP-16DI-12-60M	16 digital inputs	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	10/100 Mbit/s	Type 1 in acc. with IEC 61131-2	1	2426270000

Fieldbus Protocol	Interface	Description
Sensor-actuator active distributor, PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol		Available in different configurations: 8-16 DI, DO, DIDO, M12, 60M
Sensor-actuator active distributor, PROFINET V2.3	I/O Link	8 IO link, 4 x type A, 4 x type B available in 30 mm and 60 mm

Other Fieldbus Protocols are available: [www.weidmuller.com/URIP67](http://www.weidmuller.com/URIP67)



# u-view

## Touch and Industrial Panels

- Optimized for the most advanced web applications
- Simple and intuitive configuration
- Available with different screen sizes
- cULus Listed
- C1D2



## Touch Panels

Description	System Data	Type	Order Number
<b>ECO Line</b>			
web-compatible touch panel, Display size 4.3", resistive, Front protection IP66	Interfaces: 1x Ethernet 10/100 MBit/s (RJ45), 1x micro USB 2.0 (Type B)	UV66-ECO-4-RES-W	<b>2555660000</b>
web-compatible touch panel, Display size 7", resistive, Front protection IP66	Memory (Flash) 4 GB Memory (RAM) 512 MB	UV66-ECO-7-RES-W	<b>2555780000</b>
web-compatible touch panel, Display size 10.1", resistive, Front protection IP66	Operating system Linux + Browser (HTML5) Processor ARM Cortex A9 800 MHz i.MX6 Solo	UV66-ECO-10-RES-W	<b>2555790000</b>
<b>Basic Line</b>			
web-compatible touch panel, Display size 7", resistive, Front protection IP66	Interface 2 x Ethernet 10/100/1000 MBit/s (RJ45), 2 x USB 2.0 (host), 1 x serial RS-232/RS-485/RS-422	UV66-BAS-7-RES-W	<b>2555810000</b>
web-compatible touch panel, Display size 10.1", resistive, Front protection IP67	Memory (Flash) 4 GB Memory (RAM) 1 GB Operating system Linux + Browser (HTML5) Processor ARM Cortex A9 1 GHz NXP® i.MX6 DualLite	UV66-BAS-10-RES-W	<b>2555820000</b>
<b>Advance Line</b>			
web-compatible touch panel, Display size 7", MultiTouch, Capacitive, Front protection IP66	Interface 2 x Ethernet 10/100/1000 MBit/s (RJ45), 2 x USB 2.0 (host), 1 x serial RS-232/RS-485/RS-422	UV66-ADV-7-CAP-W	<b>2555830000</b>
web-compatible touch panel, Display size 10.1", MultiTouch, Capacitive, Front protection IP66	Memory (Flash) 4 GB Memory (RAM) 1 GB	UV66-ADV-10-CAP-W	<b>2555840000</b>
web-compatible touch panel, Display size 10.1", MultiTouch, Capacitive, Front protection IP67	Operating system Linux + Browser (HTML5) Processor ARM Cortex A9 1 GHz NXP® i.MX6 DualLite	UV66-ADV-15-CAP-W	<b>2555850000</b>

Automate or digitalize a wide range of processes with our innovative engineering software such as u-create web, u-create studio and u-create PROCON-WEB. Learn more: [www.weidmuller.com/software](http://www.weidmuller.com/software)

## Reliable Industrial PCs for your automation

The u-view high-performance IPCs and Panel PCs enable the flexible control, operation and monitoring of machines and systems. They are highly reliable and designed for state-of-the-art visualization, control, and IoT applications.

The u-view IPC and Panel PC series use the latest, passively cooled Intel® Atom™, Celeron™, and Core™ i-processors. By selecting from high-quality aluminium housings in various sizes, a wide range of interfaces, and selectable operating systems, you can build IPCs that optimally fit your requirements. The Panel PCs close the gap between IPCs and HMIs by combining the high-quality display technology of u-view HMIs with the performance of state-of-the-art hardware.



## Industrial PCs

Description	System Data	Display Size	Type	Order Number
<b>Industrial Monitors</b>				
Industrial Monitor, Display MultiTouch, Capacitive touch, Front protection IP66	1x VGA, 1x DVI-D, 2x USB 2.0	10.1"	UV66-ADV-10-IPM-10	<b>2676660000</b>
		12.1"	UV66-ADV-12-IPM-10	<b>2676670000</b>
		15.6"	UV66-ADV-15-IPM-10	<b>2676680000</b>
		18.5"	UV66-ADV-18-IPM-10	<b>2676690000</b>
		21.0"	UV66-ADV-21-IPM-10	<b>2676700000</b>

## Industrial PCs

Description	System Data	Display Size	Type	Order Number
<b>Edge Industrial PC 1000</b>				
Industrial PC, IP20, 2 x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 3.0, 1x Displayport™	Memory 60 GB m.2 SSD; Memory (RAM) 2 GB DDR4, soldered GPU Intel® HD Graphics 500, 400MHz / 550MHz Operating system no pre-installed operating System Processor Intel Atom® x5-E3930 - Dual Core 1.3 GHz (1.8 GHz Burst)		UV20-B-IPC-1000.01	<b>2676340000</b>
	Memory 60 GB - 120 GB m.2 SSD; Memory (RAM) 4 GB, DDR4, soldered GPU Intel® HD Graphics 505, 500MHz / 650MHz Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Entry Processor Intel Atom® x7-E3950 - Quad Core 1.6 GHz (2.0 GHz Burst)		UV20-B-IPC-1011.01	<b>2665800000</b>
			UV20-B-IPC-1011.02	<b>2676350000</b>
<b>Edge Industrial PC 2000</b>				
Industrial PC, IP20, 2 x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 2.0, 1x USB 3.0, 1x DVI-D, 1x RS232 (DB9M), 1x Cfast slot GPU Intel HD Graphics for Z3700, 688MHz	Memory 60 GB mSATA SSD; Memory (RAM) 4 GB, DDR3 Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Entry Processor Intel® Celeron® J1900 - Quad Core 2.0 GHz (2.42 GHz Burst)		UV20-B-IPC-2001.01	<b>2676370000</b>
	Memory 60 GB mSATA SSD; Memory (RAM) 4 GB, DDR3 Operating system no pre-installed operating System Processor Intel® Celeron® J1900 - Quad Core 2.0 GHz (2.42 GHz Burst)		UV20-B-IPC-2001.02	<b>2665810000</b>
	Memory 120 GB mSATA SSD; Memory (RAM) 4 GB, DDR3 Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Entry Processor Intel® Celeron® J1900 - Quad Core 2.0 GHz (2.42 GHz Burst)		UV20-B-IPC-2001.03	<b>2676380000</b>
<b>Edge Industrial PC 3000</b>				
Industrial PC, IP20, 3x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 3.0, 1x DVI-D, 1 x Cfast slot, 1x USB 3.0, Battery Type CR2032	Memory 60 GB mSATA SSD; Memory (RAM) 4 GB DDR4; GPU Intel® HD Graphics 510 Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value Processor Intel® Celeron® 3955U - Dual Core 2.0 GHz		UV20-B-IPC-3000.01	<b>2676390000</b>
	Memory 60 GB mSATA SSD; Memory (RAM) 4 GB DDR4; GPU Intel® HD Graphics 520 Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value Processor Intel® Core™ i3-6100U - Dual Core 2.3 GHz		UV20-B-IPC-3010.01	<b>2676400000</b>
	Memory 120 GB mSATA SSD; Memory (RAM) 8 GB DDR4; GPU Intel® HD Graphics 520 Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value Processor Intel® Celeron® 3955U - Dual Core 2.0 GHz		UV20-B-IPC-3021.01	<b>2676410000</b>
	Memory 120 GB mSATA SSD; Memory (RAM) 8 GB DDR4; GPU Intel® HD Graphics 520 Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value Processor Intel Core i7-6600U 2,6GHz, up to 3,4GHz boost		UV20-B-IPC-3031.01	<b>2665820000</b>
	Memory 120 GB mSATA SSD; Memory (RAM) 16 GB DDR4; GPU Intel® HD Graphics 520 No pre-installed Operating System; Processor Intel Core i7-6600U 2,6GHz, up to 3,4GHz boost		UV20-B-IPC-3032.01	<b>2676420000</b>
<b>Compact Industrial Panel PC IPPC 1000</b>				
Industrial Panel-PC, Display, BAS: Resistive - ADV: Capacitive touch, Front protection IP66, 2 x Ethernet 10/100/1000 MBit/s (RJ45), 1x USB 3.0, 1x USB 2.0, 1x Cfast slot + 2 x USB 2.0 (ADV)	Memory 60 GB mSATA SSD Memory (RAM) 4 GB, DDR4 GPU Intel HD Graphics for Z3700, 688MHz Operating system Windows 10 IoT Enterprise LTSC 2019 64bit Processor Intel Celeron J1900 Quad Core 2,0 GHz, up to 2,42 GHz boost Touch Resistive Single-Touch (BAS) / Capacitive Multi-Touch (ADV)		UV66-BAS/ ADV-7-IPPC-1001.01	<b>BAS: 2676430000</b> <b>ADV: 2665830000</b>
			UV66-BAS/ ADV-10-IPPC-1001.01	<b>BAS: 2676450000</b> <b>ADV: 2676460000</b>
			UV66-BAS/ ADV-12-IPPC-1001.01	<b>BAS: 2676470000</b> <b>ADV: 2676480000</b>
			UV66-BAS/ ADV-15-IPPC-1001.01	<b>BAS: 2676490000</b> <b>ADV: 2676500000</b>
			UV66-BAS/ ADV-15-IPPC-1001.01	<b>BAS: 2676490000</b> <b>ADV: 2676500000</b>
<b>Industrial Panel - PC 3000</b>				
Industrial Panel-PC, Capacitive touch, MultiTouch, Front protection IP66, 3x Ethernet 10/100/1000 MBit/s (RJ45), 2x USB 3.0, 1x USB 2.0, 1x DVI-H, 1x RS232 (DB9M)	Memory 60 GB mSATA SSD Memory (RAM) 4 GB, DDR3 GPU HD (Broadwell) Operating system Windows 10 IoT Enterprise LTSC 2019 64bit - Value Processor Intel® Celeron® 3765U - Dual Core 1.9 GHz	12.1" Display	UV66-ADV-12- IPPC-3001.01	<b>2676510000</b>
		15.6" Display	UV66-ADV-15- IPPC-3001.01	<b>2676530000</b>
		18.5" Display	UV66-ADV-18- IPPC-3001.01	<b>2676550000</b>
		21.5" Display	UV66-ADV-21- IPPC-3001.01	<b>2676570000</b>
		12.1" Display	UV66-ADV-12- IPPC-3022.01	<b>2676520000</b>
		15.6" Display	UV66-ADV-15- IPPC-3022.01	<b>2676540000</b>
		18.5" Display	UV66-ADV-18- IPPC-3022.01	<b>2676560000</b>
		21.5" Display	UV66-ADV-21- IPPC-3022.01	<b>2676580000</b>

# Distribution Boxes, Signal Connectors & Cordsets

Network & Automation



## Interface Solutions

Weidmüller is one of the industry's leading international providers of connectors. An important mainstay in this product family are the circular connectors, which Weidmüller groups under the product name SAI. In the development of SAI products, Weidmüller engineers have always concentrated on achieving rational, cost-effective installation concepts, and - in cooperation with major users - have supplied the markets with well-conceived products which set standards in terms of functionality and quality across the globe. The best examples are the new power distributors with S and T coded M12. These modules are characterised by particularly high currents and voltages. This enables them to also be used, for example, with three-phase motors.



# Sensor-Actuator Blocks

## Sensor-Actuator-Interface (SAI) Series

- Industrial automation products (junction boxes) designed to be installed directly into your machine application
- Choice of metal or plastic housing—protects from high heat, corrosion, dust and water submersion
- Complete sets—pluggable cable hood or fixed cable—with no extra parts to buy or stock
- Totally sealed with epoxy-encapsulated environmental protection—IP 67/68 (NEMA 6/6P)
- Available in 4, 6 or 8 ports and 3, 4 or 5 pin M12 or Harax® connectors



### SAI-MMS

- Metal housing provides continuous shielding of connections from sensors to control side
- The only fully shielded junction box on the market with M12 EMC-compliant screw connections and 4- and 5-pin configurations
- Pluggable hood with EMC-compliant cable glands for pre-assembling homerun cable
- Designed for use in high heat and harsh environments
- UL and CSA approved

Poles	Description	Order Number
4	SAI-4 MMS 4P M12	1783540000
4	SAI-8 MMS 4P M12	1783530000
5	SAI-4 MMS 5P M12	1783520000
5	SAI-8 MMS 5P M12	1783510000



SAI-MMS

### SAI-MHD

- Plastic base and metal hood
- For standard trunk cables and choice of homerun cable entry
- Allows for utilization of larger diameter cables
- For cables with outside insulation diameter from 13 mm (0.51 in)... 18 mm (0.71 in)
- Accommodates 90° or 180° homerun cable connection
- UL and CSA approved

Poles	Description	Order Number
4	SAI-4 MHD 4P M12	1705923000
4	SAI-8 MHD 4P M12	1705943000
5	SAI-4 MHD 5P M12	1701233000
5	SAI-8 MHD 5P M12	1701253000



SAI-MHD

### SAI-ECO

- Cost effective alternative
- Plastic threaded rings
- Available in 4, 6, or 8 ports
- cRUus approved

Poles	Description	Order Number
5	SAI-4-M 5P M12 ECO	1892100000
5	SAI-6-M 5P M12 ECO	1892090000
5	SAI-8-M 5P M12 ECO	1892080000



SAI-ECO

### SAI Y-distributors

- Weidmüller offers a wide range of plug-in connectors for custom assembly. Y-distributors have EAC approvals and are used to bundle and distribute multiple signals to save space.

Type	Description	Order Number
Y-plug, M12 / M8	SAI-Y-4-4/2-4 M12/M8	1783420000



SAI-Y-Distributor

### SAI-M Micro Connector

- Pluggable disconnect module, providing high application flexibility
- Choice of pluggable potential isolation with simple jumper change
- 4-pole version with 1 signal per port; 5-pole version with 2 signals per port
- Standard plug-in and pin layout
- Protection class: IP 68 (NEMA 6P); UL and CSA approved

Poles	Description	Order Number
4	SAI-4-M 4P M12	1705920000
4	SAI-8-M 4P M12	1705940000
5	SAI-4-M 5P M12 1:1	1806010000
5	SAI-4-M 5P M12	1701230000
5	SAI-8-M 5P M12	1701250000
5	SAI-6-M 5P M12	1701240000



SAI-M Micro Connector

### SAI-F Micro Connector

- Pre-attached homerun cable
- C-Track compatible polyurethane homerun cable; available in 5, 10, 15 and 20 meter lengths
- 4-pole version with 1 signal per port; 5-pole version with 2 signals per port
- Protection class: IP 68 (NEMA 6P); UL and CSA approved

Poles	Description	Order Number
4	SAI-4-F 4P PUR 5M	9456190000
4	SAI-4-F 4P PUR 10M	9456200000
4	SAI-4-F 4P PUR 20M	9456230000
4	SAI-8-F 4P PUR 5M	9456750000
4	SAI-8-F 4P PUR 10M	9456760000
4	SAI-8-F 4P PUR 20M	9456790000
5	SAI-4-F 5P PUR 5M	9456330000
5	SAI-4-F 5P PUR 10M	9456340000
5	SAI-4-F 5P PUR 20M	9456370000
5	SAI-8-F 5P PUR 5M	9456890000
5	SAI-8-F 5P PUR 10M	9456900000
5	SAI-8-F 5P PUR 20M	9456930000



SAI-F Micro Connector

### Accessories

- Full line of sockets, plugs and cable assemblies
- Connectors include pre-fabricated and field attachable Types
- All standard connection types supported including M5, M8, M12 and M23

### SAI Socket Connectors

#### M8 and M12 Customizable Connectors — IDC Connections

Description	Type	Connector	Number of Poles	Order Number
SAIS-3-IDC-M8	Male, straight	M8	3-Pole	1784040001
SAIS-4-IDC-M8	Male, straight	M8	4-Pole	1784060001
SAIB-3-IDC-M8	Female, straight	M8	3-Pole	1784030001
SAIB-4-IDC-M8	Female, straight	M8	4-Pole	1784050001
SAIS-4-IDC M12	Male, straight	M12	4-Pole	1781550001
SAIB-4-IDC M12	Female, straight	M12	4-Pole	1781540001
SAISW-4-IDC M12	Male, right angle	M12	4-Pole	1812870000
SAIBW-4-IDC M12	Female, right angle	M12	4-Pole	1812890000



SAIS-3-IDC-M8

#### M8 Customizable Connectors — Screw Connection

Description	Type	Number of Poles	Order Number
SAIS-M8-3P	Male, straight	3-Pole	1803860000
SAIS-M8-4P	Male, straight	4-Pole	1803850000
SAIB-M8-3P	Female, straight	3-Pole	1803870000
SAIB-M8-4P	Female, straight	4-Pole	1803880000



SAIS-M8-4P

## SAI Socket Connectors - continued

### M12 Customizable Connectors — Screw Connection

Description	Type	Number of Poles	Order Number
SAIS-3/7	Male, straight, PG 7	3-Pole	1021470000
SAIS-4/7	Male, straight, PG 7	4-Pole	9457550000
SAIS-5/7	Male, straight, PG 7	5-Pole	9456940000
SAIS-3/9	Male, straight, PG 9	3-Pole	1021480000
SAIS-4/9	Male, straight, PG 9	4-Pole	1807340000
SAIS-5/9	Male, straight, PG 9	5-Pole	1807350000
SAIS-8/9	Male, straight, PG 9	8-Pole	1836970000
SAIB-3/7	Female, straight, PG 7	3-Pole	1021490000
SAIB-4/7	Female, straight, PG 7	4-Pole	9457240000
SAIB-5/7	Female, straight, PG 7	5-Pole	9457250000
SAIB-3/9	Female, straight, PG 9	3-Pole	1021510000
SAIB-4/9	Female, straight, PG 9	4-Pole	1807230000
SAIB-5/9	Female, straight, PG 9	5-Pole	1807250000
SAIS-8/9	Female, straight, PG 9	8-Pole	1836960000
SAISW-3/7	Male, right angle, PG 7	3-Pole	1021280000
SAISW-4/7	Male, right angle, PG 7	4-Pole	9457290000
SAISW-5/7	Male, right angle, PG 7	5-Pole	9456950000
SAISW-3/9	Male, right angle, PG 9	3-Pole	1021290000
SAISW-4/9	Male, right angle, PG 9	4-Pole	1807360000
SAISW-5/9	Male, right angle, PG 9	5-Pole	1807370000
SAIBW-3/7	Female, right angle, PG 7	3-Pole	1021310000
SAIBW-4/7	Female, right angle, PG 7	4-Pole	9457700000
SAIBW-5/7	Female, right angle, PG 7	5-Pole	9457260000
SAIBW-3/9	Female, right angle, PG 9	3-Pole	1021320000
SAIBW-4/9	Female, right angle, PG 9	4-Pole	1807240000
SAIBW-5/9	Female, right angle, PG 9	5-Pole	1807330000



SAIS-5/7-Straight



SAISW-5/7-Right Angle

### M12 Customizable Metal Connectors for Shielded Cables — Screw Connection

Description	Type	Number of Poles	Order Number
FBCON M12 4PM EMC	Male, straight	4-Pole	9455640000
SAIS-M-5/8S M12 5P A-COD	Male, straight	5-Pole	1784740000
SAISH-8/11	Male, straight, PG 9	8-Pole	1118910000
FBCON M12 4PFM EMC	Female, straight	4-Pole	8426220000
SAIB-M-5/8S M12 5P A-COD	Female, straight	5-Pole	1784750000
SAIBH-8/11	Female, straight, PG 9	8-Pole	1118920000
SAISW-M-4/8 M12	Male, right angle	4-Pole	1803930000
SAISW-M-5/8 M12	Male, right angle	5-Pole	1803940000
SAIBW-M-4/8 M12	Female, right angle	4-Pole	1803910000
SAIBW-M-5/8 M12	Female, right angle	5-Pole	1803920000
SAIBM 5/8S M12 5P B-COD	Female socket, straight	5-Pole	1784780000
SAIBM-4/8S-M12-4P D-COD	Female socket, straight	4-Pole	1892130000



SAIB-M-5/8 M12 5P A-COD

### M8 Customizable Connectors for Shielded Cables — Screw Connection

Description	Type	Number of Poles	Order Number
SAISM-M8-3P (IF)	Male, straight	3-Pole	1010060000
SAISM-M8-4P (IF)	Male, straight	4-Pole	1010070000
SAIBM-M8-3P (IF)	Female, straight	3-Pole	1010080000
SAIBM-M8-4P (IF)	Female, straight	4-Pole	1010090000



SAISW-M-5/8 M12

### M8 Distributor with Fixed Cable

- Narrow, short and flat M8 distributor
- Marking options at all connection positions

Poles	Description	Order Number
3	SAI-6-F 3P M8 L 5M	1828700000
3	SAI-8-F 3P M8 L 10M	1828670000
3	SAI-8-F 3P M8 L 5M	1828680000



SAI M8 Distributor

## Cables

Halogen-free PUR Cable for Continuous Flex Applications

- Recommended for C-track applications
- Rated for over 20 million bending cycles
- Halogen-free PUR material is oil, grease and lubricant resistant
- IP67 rated for use directly on the machine
- Also available with PVC cable and torsion rated PUR cable for robotic applications
- Options with plastic or stainless steel coupling nuts for corrosive environments available

All cables listed have a cable length of 1.5 meters. To order other Weidmüller standard cable lengths, change the last four digits of the Order Number as follows:

1.5m xxxxxx0150, 3.0m xxxxxx0300, 5.0m xxxxxx0500, 10m xxxxxx1000

### SAI Sensor Cables

#### M12, One End Without Connector

Description	Type	Number of Poles	Length	Order Number
SAIL-M12G-3-1.5U	Plug, Straight	3	1.5m	9457810150
SAIL-M12G-4-1.5U	Plug, Straight	4	1.5m	9456100150
SAIL-M12G-5-1.5U	Plug, Straight	5	1.5m	9457610150
SAIL-M12W-3-1.5U	Plug, Angled	3	1.5m	9456690150
SAIL-M12W-4-1.5U	Plug, Angled	4	1.5m	1906260150
SAIL-M12W-5-1.5U	Plug, Angled	5	1.5m	9457670150
SAIL-M12BG-3-1.5U	Socket, Straight	3	1.5m	9457820150
SAIL-M12BG-4-1.5U	Socket, Straight	4	1.5m	9457730150
SAIL-M12BG-5-1.5U	Socket, Straight	5	1.5m	9457910150
SAIL-M12BW-3-1.5U	Socket, Angled	3	1.5m	9457320150
SAIL-M12BW-4-1.5U	Socket, Angled	4	1.5m	9457740150
SAIL-M12BW-5-1.5U	Socket, Angled	5	1.5m	9457690150



M12, one end without connector

#### M8, One End Without Connector

Description	Type	Number of Poles	Length	Order Number
SAIL-M8GS-3-1.5U	Plug, Straight	3	1.5m	1824590150
SAIL-M8GS-4-1.5U	Plug, Straight	4	1.5m	1906270150
SAIL-M8WS-3-1.5U	Plug, Angled	3	1.5m	1857550150
SAIL-M8WS-4-1.5U	Plug, Angled	4	1.5m	1857560150
SAIL-M8GBS-3-1.5U	Socket, Straight	3	1.5m	9457450150
SAIL-M8GBS-4-1.5U	Socket, Straight	4	1.5m	9457850150
SAIL-M8WBS-3-1.5U	Socket, Angled	3	1.5m	9457380150
SAIL-M8WBS-4-1.5U	Socket, Angled	4	1.5m	9456150150



M12 to M8, LED

#### M12 to M8, LED

Description	Type	Number of Poles	Length	Order Number
SAIL-M12GM8WS-3L1.5U	Plug Straight, Socket Angled	3	1.5m	9457760150
SAIL-M12GM8WS-4L1.5U	Plug Straight, Socket Angled	4	1.5m	1906430150



M8 to M12, LED

#### M8 to M8, LED

Description	Type	Number of Poles	Length	Order Number
SAIL-M8GSM8WS-3L1.5U	Plug Straight, Socket Angled	3	1.5m	1877250150
SAIL-M8GSM8WS-4L1.5U	Plug Straight, Socket Angled	4	1.5m	1906450150



M12 to M12, LED

#### M12 to M12, LED

Description	Type	Number of Poles	Length	Order Number
SAIL-M12GM12W-3L1.5U	Plug Straight, Socket Angled	3	1.5m	9457790150
SAIL-M12GM12W-4L1.5U	Plug Straight, Socket Angled	4	1.5m	1906410150

# Industrial Ethernet

Automation and Software



## **The complete solution for industrial data transmission with network devices for safe communication from the field to the control level**

Weidmüller offers a complete family of Industrial Ethernet products. This includes Switches, Routers and Media Converters, each supporting both Category 6 network cable and fiber optic connections. Also available is an entire line of Category 6 cables, patch cords, and all necessary connections including RJ45 terminations, DIN-rail adapters and couplers.

Weidmüller is your complete Industrial Ethernet connectivity solution!



# Industrial Ethernet Solutions

## Selecting an Ethernet Switch

Does the application require Managed or Unmanaged Ethernet Switches?

- Choose Unmanaged for simple plug and play connectivity.
- Choose Managed for applications requiring network traffic monitoring or segmentation.



### Features

What data speeds are required?

- Fast Ethernet 10/100Mbps
- Gigabit (10/100/1000Mbps)

Is there a need for Fiber Ports, either for distance or noise immunity purposes?

- Choose between Multi-mode (MM) or Single-mode (SM) fiber types.
- Most common ones are SC / LC. Some existing applications might use ST.
- SFP ports for fiber connectivity offers great flexibility and can be used as copper ports or fiber (LC) ports.
- The connector types can also use cables to change from ST <-> SC







How many Ethernet Ports does the application require?

- Does it make sense to select a switch with a few additional ports for future expansion?
- Does it make sense to select a switch that supports Gigabit speeds for future bandwidth requirements?

Are there other specification considerations?

- Oil & Gas application may require Class 1/Division 2 certification
- Marine Certifications might require GL or ABS

Key:	UNMANAGED	MANAGED
Configuration	Plug & Play	<b>Requires Setup</b>
Monitoring Protocols	No	<b>Yes</b>
Redundancy technologies	No	<b>Yes</b>
VLAN	No	<b>Yes</b>
Managing network traffic	No	<b>Yes</b>
Cost	Lower Cost	Can be High Cost

	UNMANAGED SWITCHES			MANAGED SWITCHES		
	EcoLine	BasicLine	ValueLine	AdvancedLine	ValueLine	PremiumLine
						
100 Mbps Copper Ports	5, 8, 16, 24	5, 8, 16	8, 16	5, 8, 16, 24	5, 8, 16	8, 16
100 Mbps Fiber Ports	1, 2, 4	1, 2	2, 3, 4	1, 2, 4	1, 2	2, 3, 4
1 Gig Copper Ports	2, 5, 8	4	2, 4, 8	2, 5, 8	4	2, 4, 8
1 Gig Fiber Ports	2,4	1	2	2,4	1	2
Power over Ethernet (PoE)	4, 8	4		4, 8	4	
Operating temperature	-40 °C...75 °C	options for -40 °C...75 °C	options for -40 °C...75 °C	-40 °C...75 °C	options for -40 °C...75 °C	options for -40 °C...75 °C
Housings	IP30	IP30 / IP67	IP30	IP30	IP30 / IP67	IP30
Power requirements	12V-54V DC, 24Vac	12V-54V DC	12V-54V DC	12V-54V DC, 24Vac	12V-54V DC	12V-54V DC
Certifications	c-UL-us / CE	c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link	c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link	c-UL-us / CE	c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link	c-UL-us Certified / Class I, Div 2, Groups A,B,C,D / CE / ATEX / EIP / ProfiNet / Marine / KCC / CC-Link

## Unmanaged Switches

### Features

- Plug and play switches in an IP30-rated rugged aluminum housing
- Compact and cost efficient design
- Fast Ethernet & Gigabit variants with 5 to 24 Ports
- Redundant dual 12/24/48 VDC, 18 to 30 VAC power inputs
- Hazardous area approvals, Class 1, Div 2 and ATEX on some Types



# RJ45	# FO	Speed	Type	Description	Order Number
5	-	10/100Mbps	IE-SW-EL05-5TX	5-Port Copper, -40...75°C	2682130000
5	-	10/100Mbps	IE-SW-BL05-5TX	5-Port Copper, -10...60°C (C1D2 Approved)	1240840000
5	-	10/100Mbps	IE-SW-BL05T-5TX	5-Port Copper, -40...75°C (C1D2 Approved)	1240850000
5	-	10/100/1000Mbps	IE-SW-EL05-5GT	5-Port Copper, Full Gigabit, -40...75°C	2682210000
8	-	10/100Mbps	IE-SW-EL08-8TX	8-Port Copper, -40...75°C	2682140000
8	-	10/100Mbps	IE-SW-BL08-8TX	8-Port Copper, -10...60°C (C1D2 Approved)	1240900000
8	-	10/100Mbps	IE-SW-BL08T-8TX	8-Port Copper, -40...75°C (C1D2 Approved)	1286560000
8	-	10/100/1000Mbps	IE-SW-EL08-8GT-MINI	8 Copper-Ports, Full Gigabit, -40...75°C	2705000000
8	-	10/100/1000Mbps	IE-SW-VL08-8GT	8 Copper-Ports, Full Gigabit, -40...75°C	2682230000
8	-	10/100/1000Mbps	IE-SW-VL08-8GT	8 Copper-Ports, Full Gigabit, 0...60°C (C1D2 Approved)	1241270000
6	2	10/100Mbps	IE-SW-EL08-6TX-2SC	4 Copper-RJ45, 2 Fiber SC, -40...75°C	2682170000
8	2	10/100/1000Mbps	IE-SW-EL10-8GT-2GESFP	8 Copper-RJ45, 2 Fiber SFP*, -40...75°C	2682240000
16	-	10/100Mbps	IE-SW-EL16-16TX	16-Port Copper, -40...75°C	2682150000
16	-	10/100Mbps	IE-SW-VL16-16TX	16 Copper-Ports, 0-60°C (C1D2 Approved)	1241000000
24	-	10/100Mbps	IE-SW-EL24-24TX	24-Port Copper, -40...75°C	2682190000

\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications

## Managed Switches

### Features

- The equipment can be delivered with Fast Ethernet and Gigabit Ethernet ports.
- Managed switches support a variety of helpful management functions, such as fast ring redundancy, port-based VLAN, QoS, RMON, bandwidth management, port mirroring and error notification via e-mail or a relay.
- The ring redundancy can be simply set via the web based management interface, or with a dip switch found on the top of the switch.
- Managed switches for the entry into a configurable network infrastructure
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL on a selection of Types



# RJ45	# FO	Speed	Type	Description	Order Number
5	-	10/100Mbps	IE-SW-AL05LM-5TX	Light Managed, 5*TX, Relay, -40+70, Dual Power, No QoS (IEEE 802.1p)	2682250000
5	-	10/100Mbps	IE-SW-VL05M-5TX	Light Managed, 5 Copper-Ports, 0...+60°C (C1D2 Approved)	1504280000
5	-	10/100Mbps	IE-SW-VL05MT-5TX	Light Managed, 5 Copper-Ports, -40...+75°C (C1D2 Approved)	1504310000
4	2	10/100/1000Mbps	IE-SW-AL06LM-4TX-2SC	Light Managed, 4*TX, 2* FX-MM-SC, Relay, -40+70, 2km, No QoS (IEEE 802.1p)	2682260000
6	-	10/100Mbps	IE-SW-AL08M-6TX-2GT	Full Managed, 6*TX, 2*GT, -40+70, Hide Power Jack for office power supply	2682290000
8	-	10/100Mbps	IE-SW-AL08M-8TX	Full Managed, 8*TX, -40+70, Dual Power, No QoS (IEEE 802.1p)	2682280000
8	-	10/100Mbps	IE-SW-VL08MT-8TX	Light Managed, 8 Copper-Ports, -40...+75°C (C1D2 Approved)	1240940000
8	-	10/100/1000Mbps	IE-SW-AL08M-8GT	Full Managed, 8*GT, -40+75, Relay, Dual Power, without IEEE 1588v2 Clock	2682350000
8	-	10/100Mbps	IE-SW-PL08M-8TX	Full Managed, 8 Copper-Ports, 0-60°C (C1D2)	1241040000
8	2	10/100/1000Mbps	IE-SW-AL10M-8TX-2GESFP	Full Managed, 8*TX, 2* FX-SFP, -40+70, (10 ports in total)	2682300000
16	-	10/100Mbps	IE-SW-PL16M-16TX	Full Managed, 16 Copper-Ports, 0-60°C (C1D2)	1241100000
16	-	10/100Mbps	IE-SW-AL16M-16TX	Full Managed, 16*TX, Relay, -40+70, Dual Power	2682310000
16	2	10/100/1000Mbps	IE-SW-AL18M-16TX-2GC	Full Managed, 16*TX, 2*GB-Combo, Relay, -40+70, Dual Power	2682330000
24	-	10/100Mbps	IE-SW-AL24M-24TX	Full Managed, 24*TX, Relay, -40+70, Dual Power	2682320000

\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications

## Power Over Ethernet (PoE) Switches

### What is PoE?

Two Standards: poE(iEEE802.3af) and poE+(iEEE802.3at)

- "PoE" stands for Power-over-Ethernet – in which Power is transmitted over the Ethernet cable along with data lines.
- These ports can power PoE/PoE+ compliant devices, eliminating the need to run a separate power line to each end device. Applications with PoE/ PoE+ switches reduced installation cost, ease of setup and ability to remotely power end devices like access points, IP/PTZ cameras, CCTV, serial servers and Ethernet I/O. Switches typically require a 24 to 57 VDC power supply.
- Managed PoE devices allow for all the functions of a regular managed switch plus the ability to control the output power of each port.
- Injectors are used to take a non-PoE input and convert it to a high power PoE+ on the output port.



# RJ45	PoE	PoE+	# FO	Speed	Type	Description	Order Number
2	4	-	-	10/100Mbps	IE-SW-BL06-2TX-4PoE	2 Copper-RJ45, 4 Copper-Ports PoE, Power Supply 24 VDC, 0-60°C	1241380000
-	4	-	2	10/100Mbps	IE-SW-BL06-4PoE-2SC	4 RJ45 PoE, 2 FO-Port Multimode SC, Power Supply 24 VDC, 0-60°C	1504210000
1	4	-	-	10/100/1000Mbps	IE-SW-BL05-1GT-4GTPoE	1 RJ45-GB, 4 RJ45-PoE GB, Power Supply 24 VDC, 0-60°C	1504320000
1	4	-	-	10/100/1000Mbps	IE-SW-BL05T-1GT-4GTPoE	1 Copper-Port GB, 4 RJ45-PoE GB, Power Supply 24 VDC, -40-75°C	1504340000
-	4	-	1	10/100/1000Mbps	IE-SW-BL05-1GS-4GTPoE	1 SFP-Port GB, 4 RJ45-PoE GB, Power Supply 24 VDC, 0-60°C	1504360000
-	-	8	-	10/100Mbps	IE-SW-EL8-8PoE	8*PoE+-TX, Dual Input 24~36VDC, -40+70, Relay	2682380000
-	-	4	2	10/100Mbps	IE-SW-EL6-4PoE-2SC	4*PoE+-TX + 2*100FX, Input 24V~36DC, -40+70, Distance 2km	2682390000
-	-	8	-	10/100/1000Mbps	IE-SW-EL8-8GTPoE	8*PoE+-GT, Dual Input 12-57VDC, -40+70, Relay, without Isolation	2682400000
-	-	8	2	10/100/1000Mbps	IE-SW-EL10-8GTPoE-2GESFP	8*PoE+-GT, 2*GB-SFP, Dual Input 12-57VDC, -40+70, Relay	2682410000
2	4	-	-	10/100Mbps	IE-SW-PL06M-2TX-4PoE	Managed, 2 RJ45 FE, 4 RJ45Ports PoE, Power Supply 24 VDC, 0-60°C	1241390000
-	-	8	-	10/100/1000Mbps	IE-SW-AL08M-8GTPoE	Managed 8*PoE+-GT, Dual Input 12-57VDC, -40+70	2682420000
1	-	1	-	10/100/1000Mbps	IE-INJ-EL02-2GTPoE	Injector, 2*PoE+-GT, 2*GT, Input 24VDC, -20+70	2682440000

\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications

## Media Converters

### RJ45 (Copper) to Fiber Optic Converters

#### Features

- 10/100 Base T(X) auto-negotiation and auto-MDI-X
- Link Fault Pass-Through (LFP)
- Power failure, port break alarm by relay output
- Redundant power inputs
- Hazardous area approvals, Class 1, Div 2/Zone 2 and ATEX



# RJ45	# FO	Speed	Type	Description	Order Number
1	1	10/100Mbps	IE-MC-VL-1TX-1SC	1 Copper-Port FE, 1 FO-Port Multimode SC, Distance: 4 km, 0-60°C	1241400000
1	1	10/100Mbps	IE-MC-VL-1TX-1SC	2 Copper-Port FE, 1 FO-Port Multimode SC, Distance: 4 km, -40-75°C	1286880000
1	1	10/100Mbps	IE-MC-VL-1TX-1ST	1 Copper-Port FE, 1 FO-Port Multimode ST, Distance: 4 km, 0-60°C	1241410000
1	1	10/100Mbps	IE-MC-VL-1TX-1ST	2 Copper-Port FE, 1 FO-Port Multimode ST, Distance: 4 km, -40-75°C	1286890000
1	1	10/100Mbps	IE-MC-VL-1TX-1SCS	1 Copper-Port FE, 1 FO-Port Single Mode SC, Distance: 40 km, 0-60°C	1241420000
1	1	10/100Mbps	IE-MC-VL-1TX-1SCS	2 Copper-Port FE, 1 FO-Port Single Mode SC, Distance: 40 km, -40-75°C	1286900000

\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications

## Industrial Serial to Ethernet Converters & Gateways

#### Features

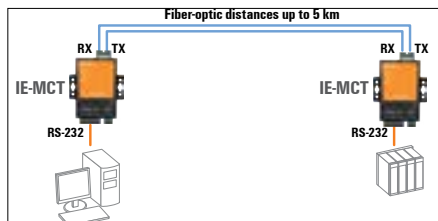
- Convert or access your serial devices onto Ethernet networks
- Supports RS-232, RS-422 or RS-485 (RTU)
- Simple web interface for easy device configuration
- Integrated alarm relay output
- Units have integrated surge protection for both Serial and Ethernet ports and power supply
- Integrated two-port Ethernet Switch
- Available in single Serial or dual Serial versions
- Supports several operating modes including; TCP server, TCP client, UDP, Real COM, RFC 2217, reverse telnet, pair connection and Ethernet modem
- Hazardous area approvals, Class 1, Div 2/Zone 2 and ATEX
- Transmits Serial RS-232, RS-422, and RS-485 data without effects of EMC
- Seamlessly switches between ring and point-to-point transmission modes



# RJ45	# Serial	# FO	Speed	Type	Description	Order Number
2	1	-	10/100Mbps	IE-CS-2TX-1RS232/485	1-Port RS-232/422/485, 2 FE-Port Copper, 0 to 60°C	1242080000
2	1	-	10/100Mbps	IE-GW-MB-2TX-1RS232/485	Modbus TCP/RTU Gateway, 1-Port RS-232/422/485, 2-RJ45, 0 to 55°C	1504460000
-	1	1	10/100Mbps	IE-MCT-1RS232/485-1SC	RS-232/422/485 to MM-FO media converter with SC connector, -40 to 75°C	1344760000
-	1	1	10/100Mbps	IE-MCT-1RS232/485-1ST	RS-232/422/485 to MM-FO media converter with ST connector, -40 to 75°C	1362950000

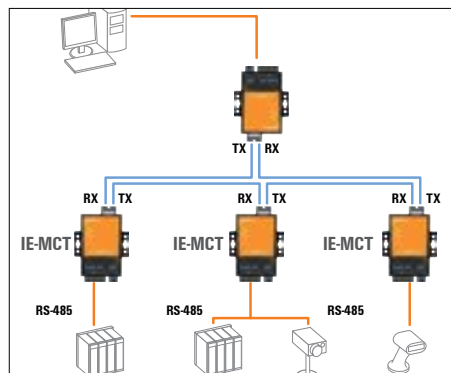
\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications

## Typical Applications



### Transmission of serial data over longer distances

Routing serial signals from an RS-232/422/485 port to fiber-optics with SC or ST to span greater distances without additional power boosters.



### Reduced installation costs

The converter connects serial devices in a fiber-optic circuit. This allows you to configure networks of up to 100 km in length.

## Gigabit Routers

### Reliable Ethernet connections between devices and networks

Communicate with machinery and systems securely, reliably from anywhere with Weidmüller Industrial routers. These routers translate between the addresses of various networks with protocols like:

- Port forwarding
- 1:1 NAT masquerading
- Real time access to remote network or devices with built in cellular modems
- Encrypted VPN for secure direct access to LAN's worldwide
- Integrated digital I/O port for local control and information
- Two Gigabit ports provide fast access even in encrypted tunnels
- Integrated firewalls prevent unauthorized access to network and devices
- Easy Cloud service integration like with U-Link or other IoT systems



# RJ45	Cellular Connections	Serial Interfaces	Speed	Type	Description	Order Number
2	-	-	10/100/1000Mbps	IE-SR-2GT-LAN-FN	Security/NAT Router, Gigabit , IP20, -20 °C...70 °C (No VPN)	1489940000
2	-	-	10/100/1000Mbps	IE-SR-2GT-LAN	Security/NAT/VPN/U-link Router, Gigabit , IP20, -20 °C...70 °C	1345270001
2	1	-	10/100/1000Mbps	IE-SR-2GT-LTE/4G-US	Security/NAT/VPN/U-link Router, with 4G/3G/2G, Gigabit , IP20, -20 °C...70 °C	2535780000
4	-	-	10/100Mbps	IE-SR-4TX	Security/NAT/VPN/U-link Router, IP30, -30 °C...70 °C	2751270000
6	-	-	10/100/1000Mbps	IE-SR-6GT-LAN	Security/NAT/VPN/U-link Router, Gigabit, IP20, -20 °C...70 °C	2535940000
6	1	-	10/100/1000Mbps	IE-SR-6GT-LTE/4G-US	Security/NAT/VPN/U-link Router, with 4G/3G/2G, Gigabit, IP20, -20 °C...70 °C	2535950000
1	1	1	10/100Mbps	WI-MOD-645M-US	IIoT Cellular LTE Router / WiFi / Serial / 4DIO	7940109138

\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications





## u-link Remote Access Service

The Weidmüller u-link remote access service is a web-based portal application to give service PCs simple and secure access to Ethernet devices in a remote network. VPN-supported remote access through a service PC is enabled with the u-link VPN server and a Weidmüller router located in the target network. The u-link VPN server acts as a central meeting point and connects a service PC (VPN client) to a router in the target network in order to reach the Ethernet devices that are connected to the router.

### Entry version

- Free use, no runtime limitation
- Max. 50 router objects (access points to a remote network)
- 2 simultaneous VPN through-connections per customer account

### Standard version 50/150/300/500/other license Types on request

- License-dependent configuration from 50 up to 500 router objects (further license Types on request)
- Extensive functional and performance features as compared with the entry version, such as 3 simultaneous VPN through-connections per customer account (can be extended)
- China-VPN: reliable VPN connection to and from China
- Firmware management: Display of firmware status of all routers and the option of a time-controlled, automated firmware update
- Individual access rights: granular configuration of access rights to devices in the target network
- Extensive event log: Presentation of all activities in the u-link portal with extensive filter and export functions
- Password policy: Increased security through configurable specification of minimum requirements for password quality and validity period

### "Additional VPN connections" extension

- License code can be used with all standard versions
- Additional data volume with guaranteed bandwidth

Number of Accessible Devices	Number of Simultaneous VPN connections	License Period	Speed	Type	Order Number
50	2	Free	10/100/1000Mbps	Included with every IE-SR Router	
50	3	1 Year	10/100/1000Mbps	U-LINK-LIC-STD-50-1Y	2665050000
150	3	1 Year	10/100/1000Mbps	U-LINK-LIC-STD-150-1Y	2447050000
300	3	1 Year	10/100/1000Mbps	U-LINK-LIC-STD-300-1Y	2457840000
500	3	1 Year	10/100/1000Mbps	U-LINK-LIC-STD-500-1Y	2457850000

\* **Note:** See [www.weidmuller.com/activeethernet](http://www.weidmuller.com/activeethernet) for more variants and detailed specifications



# Patch Cords and Data Connectors

Whether standardized or individual: our demand-oriented assembly services support you in handling even the most complex of cabling tasks. Continual modularization and decentralization are creating a growing need for standardized plug-and-produce solutions that are efficient to both assemble and operate. Choose from our extensive range of prefabricated cables, or use our online configurator to create individual signal cord sets for sensors or data cord sets for Ethernet.

## Features

- **Seamless interconnection:** We guarantee the reliable transmission of power, signals and data with consistently convenient connection technology from a single source.
- **High-quality technologies:** We are always looking to the future, which is why our plug-in connectors and cables comply with the latest norms and quality standards.
- **Flexible customization:** Weidmüller offers you efficient implementation for every cabling task - from standard cabling to custom solutions.



## Patch Cables and Connectors



### CabinetLine Patch Cables

Cable Type	Length	Color	Jacket Material	Order Number
Cat.6A	0.2m	gray	LSZH	1165940002
Cat.6A	0.5m	gray	LSZH	1165940005
Cat.6A	1m	gray	LSZH	1165940010
Cat.6A	1.5m	gray	LSZH	1165940015
Cat.6A	2m	gray	LSZH	1165940020
Cat.6A	3m	gray	LSZH	1165940030
Cat.6A	5m	gray	LSZH	1165940050
Cat.6A	10m	gray	LSZH	1165940100
Cat.6A	0.5m	blue	LSZH	1165900005
Cat.6A	1m	blue	LSZH	1165900010
Cat.6A	2m	blue	LSZH	1165900020
Cat.6A	0.5m	red	LSZH	1166030005
Cat.6A	1m	red	LSZH	1166030010
Cat.6A	2m	red	LSZH	1166030020
Cat.6A	0.5m	magenta	LSZH	1201270005
Cat.6A	1m	magenta	LSZH	1201270010
Cat.6A	2m	magenta	LSZH	1201270020
Cat.5	0.5m	green	PVC	1166020005
Cat.5	1m	green	PVC	1166020010
Cat.5	2m	green	PVC	1166020020
Cat.5	0.5m	green	PUR	1166000005
Cat.5	1m	green	PUR	1166000010
Cat.5	2m	green	PUR	1166000020

### CabinetLine Patch Cables - Angled

Cable Type	Length	Angled Plug	Color	Jacket Material	Order Number
Cat.6	0.5m	90°	gray	LSZH	1248280005
Cat.6	2m	270°	gray	LSZH	1233160005

### Bulk Installation Cable

Device Description	Length	Order Number
<b>Copper</b>		
IE-5IC4x2xAWG24/1-PUR	100m	8813160000
IE-5IC4x2xAWG24/1-PVC	100m	8813150000
IE-7IC4x2xAWG24/1-PUR	100m	8813140000
IE-7IC4x2xAWG24/1-PVC	100m	8813130000

### Bulk Connection Cable

Description	Length	Order Number
<b>Copper</b>		
IE-5CC4x2xAWG26/7-PUR	100m	8813200000
IE-5CC4x2xAWG26/7-PVC	100m	8813190000
IE-7CC4x2xAWG26/7-PUR	100m	8813180000
IE-7CC4x2xAWG26/7-PVC	100m	8813170000

### Assembled Dragline Cable

Description	Length	Order Number
<b>Copper</b>		
PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR	0.5 m	1025950005
PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR	1m	1025950010
PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR	3m	1025950030
PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR	5m	1025950050
PROFINET, M12 D-code – IP 67 straight pin Cat.5 / Cat.5e, PUR	10m	1025950100

## IP20 Industrial Ethernet Connections

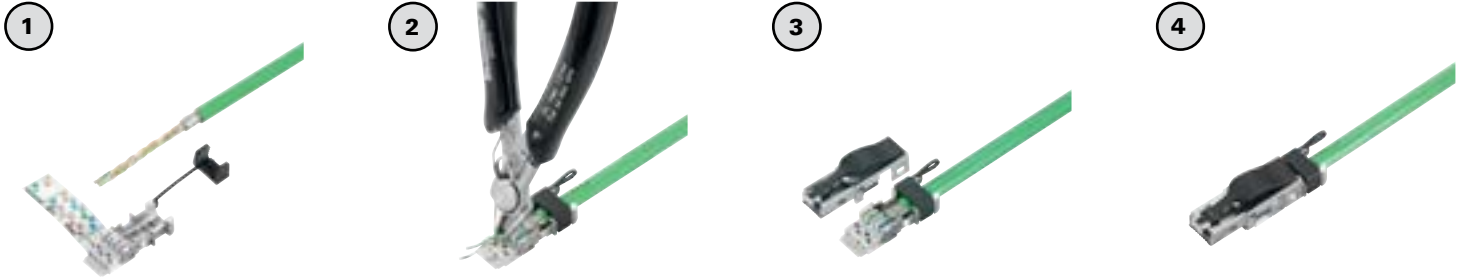
### RJ45 Field Installation

Type	Connection	Order Number
IE-PS-RJ45-FH-BK	Copper	1963600000
IE-PS-RJ45-FH-90-A-1-1		1518080000
IE-PS-RJ45-FH-180-A-1-1-CG		2703440000













RJ45 Field Installation

### Assembly Instructions












## IP67 Industrial Ethernet Connections

### Metal Plug

Housings			Variant 1 Bayonet		Variant 14 PushPull RJ	Variant 14 PushPull Fiber-optic	Variant 5 HDC	
								
Inserts			With KS	Without KS	Without KS	Without KS	Without KS	
	RJ45 AWG 24 crimp		1962720000	1963150000	1963140000	1012160000		1963110000
	RJ45 AWG 22 tool-free	TIA-A/-B/-P TIA-A TIA-B PROFINET	1962730000 1132010000 1132020000 1132030000	1963130000	1963120000	1012170000		1963200000
	LWL SC	Multimode	1067380000	1963270000	1963260000		Please order separately	
		Singlemode	1067390000	1963310000	1963300000		Please order separately	
		POF	1067410000	1963290000	1963280000		1191550000	
	LWL LC	Multimode	1962780000	1963230000	1963220000		Please order separately	
		Singlemode	1962790000	1963250000	1963240000		Please order separately	
	Protective cap			1965690000	1058280000	1058280000		1968920000



KS = anti-kink protection

### Plastic Plug

Housings			Variant 1 Bayonet		Variant 4 PushPull		
							
Inserts			With KS	Without KS	With KS	Without KS	
	RJ45 AWG 24 crimp		1962720000	1012460000 1012560000	1012440000 1012470000	1962530000 1963190000	1962520000 1963180000
	RJ45 AWG 22 tool-free	TIA-A/-B/-P	1962730000	1012570000	1012490000	1963170000	1963160000
	LWL SC	MM	1962750000	Please order separately		1963370000	1963360000
		SM	1962760000	Please order separately		1963410000	1963400000
		POF	1962770000	Please order separately		1963390000	1963380000
	LWL LC	MM	1962780000	Please order separately		1963330000	1963320000
		SM	1962790000	Please order separately		1963350000	1963340000
	Protective cap			1965690000		1963890000	












KS = anti-kink protection

\* Note:








	Individual Components
	Sets

## IP67 Industrial Ethernet Connections - continued

### Metal Flange

			Housings	Variant 1 Bayonet	Variant 14 PushPull RJ		Variant 14 PushPull fiber-optic		Variant 5 HDC
					 Standardized flange	 Central flange	 Standardized flange	 Central flange	
Inserts				1963540000	1011540000	1047950000			1963530000
	RJ45 coupling		1962840000	1963470000	1012310000	1058250000			1963510000
	RJ45 module	TIA-A	1962850000	1963480000	1012320000	1058270000			1963460000
		TIA-B	1963840000	Please order separately	Please order separately	Please order separately			Please order separately
		Profinet	1963830000	Please order separately	1085260000	Please order separately			1963700000
	SC/SCRJ coupling	Multi Mode	1964430000	1964450000			1058120000	1062590000	
		Single Mode	1962870000	1963440000			1058140000	1062600000	
	LC Duplex coupling	Multi Mode	1964420000	1964440000			1058130000	1062610000	
		Single Mode	1962880000	1963430000			1058150000	1062620000	
	USB coupling		1019570000	Please order separately	Please order separately	Please order separately			Please order separately
	Protective cap			1965700000	1058310000	1058310000	1058310000	1058310000	1968930000

### Plastic Flange

			Housings	Variant 1 Bayonet	Variant 4 PushPull
Individual Components					
Sets					
Inserts	Type	Order Number		1016960000	1963520000
	RJ45 coupling		1962840000	1012370000	1963490000
	RJ45 module	TIA-A	1962850000	1012380000	1963500000
		TIA-B	1963840000	Please order separately	1963730000
		Profinet	1963830000	Please order separately	Please order separately
	SC/SCRJ coupling	Multi Mode	1964430000	Please order separately	1964470000
		Single Mode	1962870000	Please order separately	1963420000
	LC Duplex coupling	Multi Mode	1964420000	Please order separately	1964460000
		Single Mode	1962880000	Please order separately	1963450000
	USB coupling		1019570000	Please order separately	Please order separately
			1487920000		
	Protective cap			1965700000	1963900000



### M12 Adaptors and Coupler



### Network Terminal Blocks

Type	Connection	Order Number
IE-TO-RJ45-C	RJ45 Coupling	8946920000
IE-TO-RJ45-FJ-A	RJ45, TIA-A Module	8946930000
IE-TO-RJ45-FJ-B	RJ45, TIA-B Module	8946940000
IE-TO-RJ45-FJ-P	RJ45, Profinet Ethernet Module	8946950000
IE-TO-USB	USB-A Coupling	8946960000
IE-TO-SCD-MM	SCD Multi-mode Fiber	8946970000
IE-TO-SCD-SM	SCD Single-mode Fiber	8946980000



Network Terminal Blocks

Description	Type	Order Number
Adaptor, 90°	IE-M12-Adap a	8901630000
Adaptor, straight	IE-M12-Adap s	8901620000
Coupler	IE-M12-Coup	8901640000

# Industrial Wireless Solutions

Network & Automation: Industrial Wireless



## Making Distance Disappear

Our complete line of wireless, Ethernet switching and network management products delivers an infrastructure for your critical assets that is flexible, productive, safe and easily managed. Weidmüller industrial wireless products provide secure and reliable solutions for a wide range of industries and applications, as an alternative for signal and data wiring.



# Wireless Connectivity Solutions

Our products can be used in a variety of applications, including water/wastewater, oil and gas, mining, environmental, electrical utility and industrial automation.

We offer scalable solutions from basic point-to-point or meshing to large scale infrastructure deployments and covering all applications from the sensor to the control room using the Weidmüller Industrial Wireless products.

The range of products consist of Wireless I/O, Wireless Gateways, Wireless Modems and accessories with certified products including UL/CSA, FCC, CE, ATEX, IECEx.



## Applications can include:

Water & Wastewater	Mining & Resources	Oil & Gas	Environmental	Utilities	Automation	Irrigation / Agriculture
<ul style="list-style-type: none"> <li>Bore Field Monitor</li> <li>Council W/WW</li> <li>In-plant monitoring</li> <li>Pipelines</li> </ul>	<ul style="list-style-type: none"> <li>Survey equipment</li> <li>Dewatering</li> <li>Tailings dams</li> </ul>	<ul style="list-style-type: none"> <li>Well head monitoring</li> <li>Tank level monitoring</li> <li>Tailings dams</li> </ul>	<ul style="list-style-type: none"> <li>Rain fall</li> <li>River level</li> <li>Roads / Bridges</li> </ul>	<ul style="list-style-type: none"> <li>Network management</li> <li>Network control</li> </ul>	<ul style="list-style-type: none"> <li>Flow meters</li> <li>HVAC monitor</li> <li>Fire pumps</li> <li>Gas meters</li> <li>PLC connectivity</li> </ul>	<ul style="list-style-type: none"> <li>Pivot Irrigation</li> <li>Pump Control</li> <li>Bulk water pipeline</li> </ul>

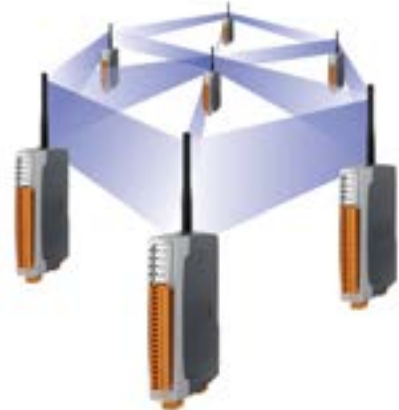
## Wireless MESH I/O Systems

Weidmüller's innovative configuration technology combines the reliability of 900MHz, FHSS modulation with mesh architecture to automatically detect and route the most efficient path to the destination node. This same system is also implemented into a 2.4GHz Wi-Fi system.

The high power 1W (900MHz) receiver sensitivity combined with frequency hopping and IP-based addressing provides reliable, self-healing, encrypted communications up to 115kbps.

### Features:

- IP-based addressing has the unique ability to MESH between I/O radios for automatic network healing and reliable data communications
- Unlimited number of repeater hops in one system for 900MHz and 2.4GHz
- On board multi-I/O channels for two-way communications
- Unrivalled scalability allowing for thousands of I/O points in one system
- Automatic connection of up to 16 I/O expansion modules (WI-I/O-EX) per wireless unit
- Modbus TCP Gateway capabilities built-in
- Ethernet TCP/IP pass-thru (Access Point) for 2.4GHz Type
- USB/Ethernet and over-the-air configuration and programming
- Expandable IO with WI-I/O-EX units via Serial or Ethernet ports
- Advanced PRO-MESH capabilities on Licensed frequency Types
- Ultra long distance Licensed 400MHz network can be combined with modems to combine functions



Frequency	Radio Power	Description	Temperature Range	Type	Order Number
900MHz	1W	900MHz Mesh I/O 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +70°C	WI-I/O 9-U2 MESH I/O	<b>6720005011</b>
2.4GHz	200mW	2.4GHz Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O + Modem	-40°C to +70°C	WI-I/O-2-E-N-GBL	<b>6720005042</b>
148-174 MHz	5W	Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +60°C	WHO-415-U2-C1	<b>7940107949</b>
148-174 MHz (EX Approved)	5W	Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +60°C	WHO-415-U2-C1-EX	<b>7940107950</b>
340-400 MHz	10W	Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +60°C	WI-I/O-415-U2-C3	<b>7940107957</b>
340-400 MHz (EX Approved)	10W	Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +60°C	WI-I/O-415-U2-C3-EX	<b>7940107958</b>
400-480 MHz	10W	Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +60°C	WHO-415-U2-C4	<b>7940107953</b>
400-480 MHz (EX Approved)	10W	Licensed Mesh IO 8D I/O, 4AI, 2AO, 1-4P I/O	-40°C to +60°C	WHO-415-U2-C4-EX	<b>7940107954</b>



Contact Weidmüller or visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) for more licensed options and detailed specifications.

## Wireless I/O

The Weidmüller 9-X range of wireless I/O provides a low cost alternative to expensive signal wire installations, over short or long distances. Transducer and control signals connected at one module (input signals) are transmitted to other modules where the signals are re-created as output signals, or passed via a data bus to a host device such as a PLC, DCS or SCADA system.

### Features:

- Large I/O capability with I/O expansion
- Two-way communications
- Use where communications are required in both directions or for large I/O requirements. Each network can handle multiple I/O applications.
- Frequency hopping spread spectrum
- 902-928MHz 1W license-free USA/Canada
- Configurable sub-bands license-free Mexico
- Up to 95 wireless units per network
- Support up to 31 I/O expansion modules (WI-I/O-EX-I-S-XX) per wireless unit
- Multi-hop repeater functions – up to 5 intermediate units



Type	Description	Temperature Range	Order Number
WI/O 9-1	Wireless I/O Transceiver 4DI/2DO/2AI/2AO/1PI	-40°C to +70°C	6720005000

## Expansion I/O Units

The Weidmüller WHO-EX units are fully featured Industrial Ethernet I/O and Gateway device that extends both physical I/O for sensors and embedded industrial protocols for communications between PLC's and RTU's, which allows simple, flexible and secure connectivity across SCADA and IIoT networks. Up to 31 x WI-I/O-EX-1-S units can be connected to each Modbus master via RS485 (up to 2 km long) and options for Ethernet TCP/IP connectivity as well.

### Features:

- Multi I/O channels— monitoring and control functions
- Connected via RS485 multi-drop
- Selectable communications via Modbus protocol (both RTU and ASCII formats)
- Sensor signals connected at one module (input signals) are transmitted to another module where the signals are re-created as output signals, or passed via serial to a host device such as a PLC or SCADA system
- Connect to WI-I/O 9 wireless I/O units for up to 31 serial addresses per wireless unit
- Serial client/server/multicast Modbus TCP to RTU gateway
- Connect 99 x WI-I/O-EX-1-S units as multi-drop Modbus I/O (RS485 extenders/isolators required for more than 31 units per single multi-drop length)
- RS485 multi-drop up to 2 km (1 mile) depending on installation environment



Type	Description	Connection	Temperature Range	Order Number
WI-I/O-EX-1-S-11	Wireless Expansion 16DI/16DO/4PI/8PO	RS485	-40°C to +70°C	6720005038
WI-I/O-EX-1-S-12	Wireless Expansion 8DI/8DO/8AI/8PO	RS485	-40°C to +70°C	6720005039
WI-I/O-EX-1-S-13	Wireless Expansion 8DO/8DI/8AO/8PO	RS485	-40°C to +70°C	6720005040
WI-I/O-EX-2-E-1	Wireless Expansion 8D I/O, 4AI, 2AO, 1-4P I/O	Ethernet TCP/IP + RS485	-40°C to +70°C	6720005041

## Wireless Gateways

Wireless Gateways provide wireless connectivity between data buses – connectivity between devices using the same data bus, or between different data buses (Ethernet to PROFIBUS to DeviceNet to Modbus, etc.). Wireless gateways are similar in operation to wireless modems, however gateways only provide a register interface to the data bus, transferring I/O registers only.

### Features:

- Connects to data bus at full bus speed (e.g. 12Mb/s for PROFIBUS, 100Mb/s for Ethernet)
- Provides Protocol Conversion (PROFIBUS, Modbus, Ethernet, DeviceNet)
- Can interconnect master-slave, slave-slave and master-master. Interconnects different data buses – wireless protocol conversion
- Provides a peer-to-peer wireless network using WIB-net high security data encryption
- Automatic acknowledgment and error-correction
- Multiple path routing
- Eight on-board discrete I/O, individually configurable as input or output
- Network configuration is performed with easy-to-use free software
- Wide range power supply with integral back-up battery-charging feature
- 6 versions to meet your protocol needs
- Can easily be integrated with standard IO or MESH devices



Type	Description	Temperature Range	Order Number
WI-GTWY-9-MDI	Wireless Gateway MODBUS/DF1	-40°C to +70°C	6720005020
WI-GTWY-9-PR1	Wireless Gateway PROFIBUS Slave	-40°C to +70°C	6720005021
WI-GTWY-9-PR2	Wireless Gateway PROFIBUS Master	-40°C to +70°C	6720005022
WI-GTWY-9-ETI	Wireless Gateway ETHERNET IP	-40°C to +70°C	6720005023

Note: Wireless MESH IO units can also be configured as Modbus TCP Gateways.

## Unidirectional Transmitter/Receiver Units

The WI-I/O-9-L products are a small I/O count transmitter and receiver pair delivered pre-configured for ease of installation. The L Series products may be reconfigured into a wider I/O or gateway networks as the application needs grow. DIN-rail mounted and DC (9-30V) powered, the units can also power a loop powered device to 24 VDC, 30mA.

The Single Sensor Wireless I/O range of products is suitable for connecting to a single sensor and is capable of being powered by battery-only supplies.

### Features:

- Frequency hopping spread spectrum 902-928MHz 1W license-free USA/Canada
- Configurable sub-bands license-free in Mexico, South America, Australia/NZ, Asia

Type	Description	Frequency	Radio Power	Temperature Range	Order Number
WI-I/O 9-L-T	Wireless I/O Transmitter 2DI/1AI/1 TC	900Mhz	1W	-40°C to +70°C	6720005005
WI-I/O 9-L-R	Wireless I/O Receiver 3DO/1AO	900Mhz	1W	-40°C to +70°C	6720005006
WI-I/O 9-L-P2	Wireless I/O TX/RX Set + 0dB gain antennas	900Mhz	1W	-40°C to +70°C	6720005008
WI-I/O 9-K	WX I/O 2DI/PI 1AI - TX ONLY	900Mhz	1W	-40°C to +70°C	6720005004



Contact Weidmüller or visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) for more frequency options and detailed specifications.

## Unlicensed 900MHz Ethernet & Serial Modems

The Weidmüller Wireless Ethernet Modems are a robust, license-free wireless 802.11 compliant transceiver capable of high bandwidth communications. They are optimized for throughputs of up to 54Mbps which provides robust and secure two-way wireless communications in challenging indoor and outdoor environments typical of industrial monitoring and control applications.

The Weidmüller modems offer node to node deterministic mesh network repeatability for further range and multiple channel spacing options to increase network scalability. Integrated Modbus server capability allows seamless I/O expansion using WI-I/O-EX-1-S Expansion units.



Type	Description	Temperature Range	Order Number
WI-MOD-945-E	DSSS 900MHz 630mW Ethernet Modem	-40°C to +70°C	<b>6720005015</b>
WI-MOD-9-E	FHSS 900MHz Ethernet Modem	-40°C to +70°C	<b>6720005051</b>
WI-MOD-9-D	Serial 900MHz Modem	-40°C to +70°C	<b>6720005050</b>

Contact Weidmüller or visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) for more licensed options and detailed specifications.

### Picking a 900MHz modem:

Data	WI-MOD-9-D	WI-MOD-9-E	WI-MOD-945-E
Modem Type	Serial Data	Serial Data	Serial Data
Frequency	902 - 928MHz	902 - 928MHz	902 - 928MHz
Modulation	FHSS	FHSS	FHSS
TX Power	100mW - 1W	100mW - 1W	100mW - 1W
Data Rate	200Kbps	200Kbps	200Kbps
Self Heal	No	No	No
Range (LOS)	20 miles (32 km) @ 4W EIRP	20 miles (32 km) @ 4W EIRP	20 miles (32 km) @ 4W EIRP
Modbus RTU (Master/Slave)	Yes	Yes	Yes
Modbus TCP (Master/Slave)	No	No	No
Online Diagnostics / Configuration	No	No	No
On board IO	No	No	No
Network Function	Modbus RTU Master / Slave	Modbus RTU Master / Slave	Modbus RTU Master / Slave



## Transport data reliably via network infrastructure

Provide the IT systems with valuable information from the plant

- Cross-network communication at the highest security level with the security routers
- Efficient networking of a wide range of network participants with managed and unmanaged Switches
- Establishment of wireless network connections for mobile end devices via Industrial WLAN

## Wi-Fi Based Ethernet & Serial Data Modems 2.4GHz / 5.8GHz

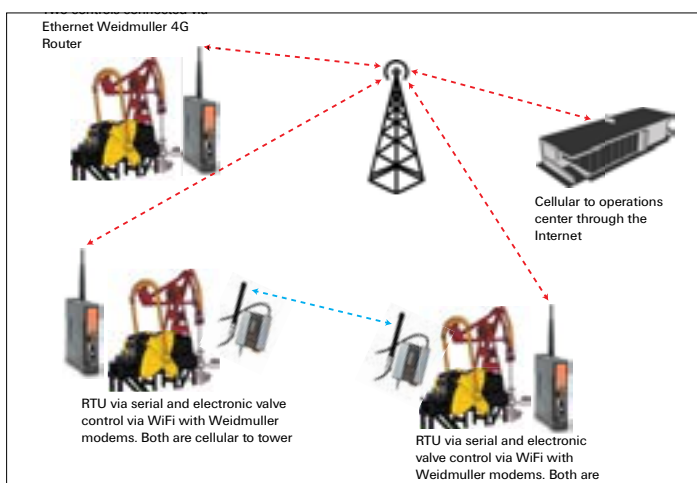
Weidmüller's industrial wireless solutions provide invaluable wireless infrastructure for your WLAN, covering entry-level wireless access points/clients to high-end multifunctional access points/stations. Our industrial wireless products ensure stable connections between wireless infrastructures between existing WLAN or Wi-Fi systems and support different frequency configurations from fixed or selectable 2.4 and 5 GHz. We offer advanced security features suitable for high-speed performance in demanding applications.

These devices are used in oil/gas, power/utility, transportation, security, and automation utilize our products for their unmatched reliability and performance.



Type	Description	Temperature Range	Wireless Standard	Frequency Range	Max. Speed	Max. Tx Power	Order Number
IE-WLT-BL-AP-CL-US	Wireless Access Point/Client	-40°C to +75°C	802.11abgn	2.4GHz/ 5.8GHz	300Mbps	400mW	<b>2536670000</b>
IE-WL-VL-AP-BR-CL-US	POE powered Wireless Access Point/Client	-25°C to +60°C	802.11abgn	2.4GHz/ 5.8GHz	300Mbps	400mW	<b>2536700000</b>
WH/O-2-E-N-GBL	Wireless IO + Modem + Modbus Gateway	-40°C to +70°C	802.11bgn	2.4GHz	100Mbps	200mW	<b>6720005042</b>
IAP-420	Wireless Access Point/Client	-10°C to +60°C	802.11bgn	2.4GHz	150Mbps	100mW	<b>7940099001</b>
IAP-420+	Wireless Access Point/Client with POE	-10°C to +60°C	802.11bgn	2.4GHz	150Mbps	100mW	<b>7940099347</b>

Contact Weidmüller or visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) for more options and detailed specifications.



## Licensed Frequency Ethernet & Serial Modems

### Ultra Long Distance

With up to 10W transmit power, an improved configuration software for seamless network setups, and advanced cybersecurity features that meet the most stringent standards. Weidmüller's WI-MOD-415-E Ethernet modem and gateway extends communications to sensors in local, remote, and difficult to reach locations.

Designed in mind with the long-range, high data speed wireless transceiver and standards-based native Ethernet protocol over the air, gives WI-MOD-415-E Series the power and flexibility to perform reliably in sprawling harsh industrial environments.



Type	Description	Temperature Range	Frequency Range	Radio Power	Order Number
WI-MOD-415-E-C1	Licensed Mesh Ethernet Gateway	-40°C to +60°C	148-174 MHz	5W	<b>7940107951</b>
WI-MOD-415-E-C1-EX	Licensed Mesh Ethernet Gateway	-40°C to +60°C	148-174 MHz (EX Approved)	5W	<b>7940107952</b>
WI-MOD-415-E-C3	Licensed Mesh Ethernet Gateway	-40°C to +60°C	340-400 MHz	10W	<b>7940107959</b>
WI-MOD-415-E-C3-EX	Licensed Mesh Ethernet Gateway	-40°C to +60°C	340-400 MHz (EX Approved)	10W	<b>7940107960</b>
WI-MOD-415-E-C4	Licensed Mesh Ethernet Gateway	-40°C to +60°C	400-480 MHz	10W	<b>7940107955</b>
WI-MOD-415-E-C4-EX	Licensed Mesh Ethernet Gateway	-40°C to +60°C	400-480 MHz (EX Approved)	10W	<b>7940107956</b>

Contact Weidmüller or visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) for more options and detailed specifications.



## IIoT Capable Cellular Routers & Devices

Rapid developments and a flood of data to be used. The Industrial IIoT offers unprecedented opportunities and potential with the core being the communication backbone or platform.

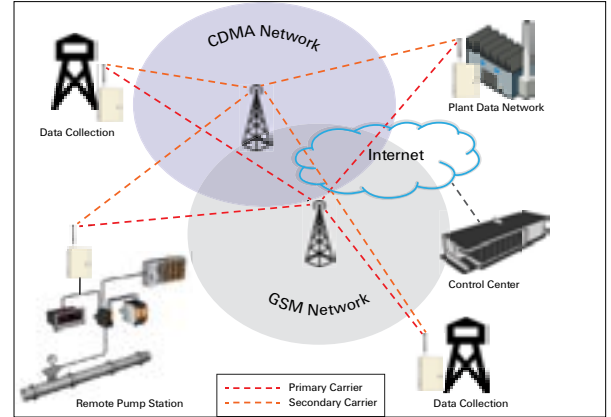
### Our devices include:

- Compact size industrial M2M gateway for remote access, data collection and end-devices control applications suitable for multiple IoT Cloud Platform interfaces
- Support LTE Cat. 4 with up to 150Mbps downlink and 50Mbps uplink data rates
- Support dual mini SIM card slot
- Support Modbus TCP/RTU industrial protocols
- Support MQTT/MQTT Sparkplug B/CoAP/LWM2M Cloud protocols
- Secure authentication and easy VPN setup



Type	Description	Temperature Range	Order Number
IE-SR-2GT-LTE/4G-US	2 Port Gigabit Security/NAT/VPN/U-link Router	-40°C to +70°C	2535780000
IE-SR-6GT-LTE/4G-US	6 Port Gigabit Security/NAT/VPN/U-link Router	-40°C to +70°C	2535950000
WI-MOD-645M-US	IIoT Cellular LTE Router / Wi-Fi / Serial / 4DIO (FirstNet Ready)	-40°C to +70°C	7940109138
IMG-4312D+-D4G	Industrial IIoT LTE Gateway with IEEE 802.11 b/g/n (Verizon/AT&T Certified)	-25°C to +70°C	7940125339

Contact Weidmüller or visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) for more options and detailed specifications.



## Antennas and Accessories

Weidmüller completes its range of wireless products with a selection of wireless accessories for installation and tools for commissioning of wireless projects.

Custom ready to deploy wireless enclosures are also available fully pre-assembled and wired for deployment and programming.

At Weidmüller, we have the resources and capabilities to design and build both industrial and ATEX certified enclosures. We handle every aspect of the process.

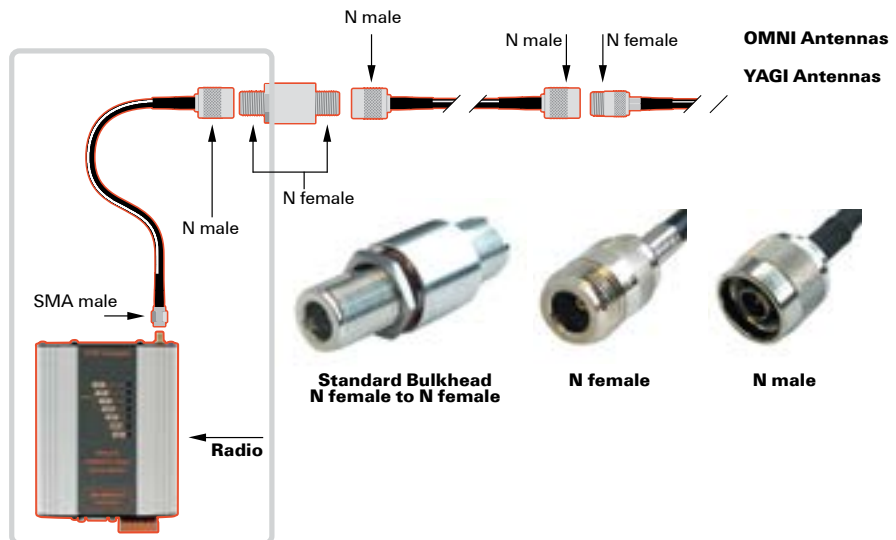
### Features:

- Initial design specifications
- Assembly and installation of box elements
- Design and specification of DIN-rail modules
- Terminal wiring
- Specifying, ordering and integrating third-party products
- Application of special coatings
- Adding elements such as mounting plates and holes or knockouts for cable glands
- Providing full ATEX certification and documentation

For a complete list of accessories please visit [www.weidmuller.com/wireless](http://www.weidmuller.com/wireless) or contact our support line.



### Enclosure with Standard Bulkhead and Surge Arrestor





# Weidmüller Industry Light (WIL)

## Optimum lighting for cabinet and field

Switch cabinets are often poorly lit. Space-saving, powerful and inexpensive solutions are required. Our WIL industry light was developed in close cooperation with users to meet these requirements. The compact LED light has a bright, wide cone of light and can be mounted in the control cabinet or directly in the field. With its small dimensions, it fits perfectly into any control cabinet. The robust, IP67 protected housing makes WIL particularly suitable for industrial use.

### Features

- The WIL-STANDARD: 24V DC LED lamp, only 8mm high, with very high light output (1315 lm) and long service life (greater than 10,000 h).
- Extremely robust construction, solid encapsulation and metal housing - waterproof (IP67).
- Its 6500K colour temperature (daylight) makes it suitable for a wide range of applications.
- Very easy to connect thanks to M12 connector. Low current consumption means that a 24V, 0.5A DC power supply is sufficient for operation.
- Approvals: CE, cULus Listed, ROHS



WIL-STANDARD

### WIL - Standard

- The WIL-LED lights Family:  
Only 8mm (9.4mm with magnet) high LED lamp for 24V DC with very high luminous efficacy and high lifespan (greater than 60,000h).
- Very robust construction, by full potting and metal housing - waterproof (IP67).
- Suitable for the various applications due to its 6500K light color (daylight).
- Optionally easily connectable with M12 connection.
- A small enough power supply with 24V for operation due to the low power consumption.

Type	Description	Order Number
WIL-STANDARD-0.3-SCREW-SW-WHI	WIL-STANDARD (w/o magnet, w/ M12)	2436210000



### WIL - Color Variants

- The WIL-LED light with red / yellow / green:  
Only 8mm high LED light for 24V DC with very high luminous efficacy and high Lifespan (greater 60 000h).
- Very robust construction, by full potting and metal housing - waterproof (IP67).
- Suitable as signal display due to its 3 light colors options.
- Due to the low power consumption, a small enough power supply with 24V for operation.

Type	Description	Order Number
WIL-STANDARD-0.3-SCREW-SW-BLU	WIL with blue LEDs	2436350000
WIL-240-RYG-M12G-0.3U-S	WIL with multicolor	2625240000
WIL-STANDARD-0.3-SCREW-SW-RED	WIL with red LEDs	2436340000
WIL-240-RGBW-M12G-0.3U-S	WIL with RGBW LEDs	2635090000
WIL-240-WW57-M12G-0.3U-S	WIL with cold white LEDs	2614400000

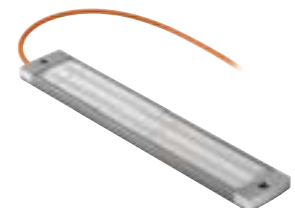


WIL-MULTICOLOR

### WIL - Magnet

- Same features as the standard WIL
- Has a magnet for easy mounting options in or outside of the cabinet
- Available without the M12 connector

Type	Description	Order Number
WIL-STANDARD-3.0-MAG-SW-WHI	WIL-MAGNET (w/ magnet, w/o M12)	2527930000



WIL-MAGNET



# Printers, Tags and Markers

Workplace & Accessories



## Do you need marking systems for a whole range of different applications?

Our all-in-one solutions are intelligent and display real future viability: convenient data organization, intelligent functions and marking conforming to standards make our systems unique. Weidmüller calls this “systemized marking” and offers more than the norm: a perfectly coordinated product range for optimized processes.

For more than 40 years, the Weidmüller name has stood for innovative and mutually compatible marking and printing systems, combined with all the necessary software and service.

**Note:** Marker descriptions indicate the length and width (pitch) of the marker in mm.

For example, a WS 12/5 is 12mm long and 5mm wide. The pitch typically corresponds to the width of the terminal or device.

## Printers Overview

Weidmüller printing systems are designed to produce terminal, wire, and equipment markers quickly and cost-effectively. All printing systems work in conjunction with M-Print® PRO software, an intuitive Windows-based program and MultiCard markers.

### PrintJet CONNECT – The advanced inkjet printer

#### Your direct connection to the optimal marking process

The PrintJet CONNECT is the consistent further development of our tried-and-tested PrintJet series. Focusing on the modern needs of industry and panel building, it combines maximum process and cost efficiency with intelligent networking and complete data consistency. For example, you can use existing data directly in the marking process – for working more efficiently and with a minimal error rate. The PrintJet CONNECT is part of the Weidmüller marking system consisting of software, markers and printers. It has an extremely durable industrial print head and has been specially optimized for fast working speed and high throughput.



PrintJet Connect Printer

### Features and Benefits:

- Perfect printing results every time
- Durable and robust markers thanks to thermal fixing
- Fast handling of large volumes
- High level of automation thanks to magazine capacity of 50 MultiCards
- Flexible connection possibilities via LAN, WIFI or USB
- Simple status monitoring on the device
- User-friendly operation thanks to intuitive touch display

Type	Color	Qty.	Order Number
PrintJet CONNECT		1	2715590000
M-PRINT® PRO		1	1905490000
PJ CON INK K (Black ink)	■	1	2715640000
PJ CON INK C (Cyan ink)	■	1	2715610000
PJ CON INK M (Magenta ink)	■	1	2715620000
PJ CON INK Y (Yellow ink)	■	1	2715630000
PJ CON INK SET (Ink set)	■ ■ ■ ■	1	2715600000
PJ CON FLUID SET (Fluidset)		1	2715650000
PJ CON WASTE PAD (Ink collecting tray)		1	2715660000
PJ CON TEXTILE COVER (Textile cover)		1	2715670000
PJ CON WIFI STICK (WIFI stick)		1	2715680000

Optimize your marking process with our printer software: [www.weidmuller.com/m-printpro](http://www.weidmuller.com/m-printpro)

### Thermal Printers

The THM MultiMark is the only printer you need for your marking tasks. The integrated cutting and perforation options allows continuous material to be cut at any length, making your work load easier. The printer edits markers and labels from the MultiMark family, as well as terminal markers, continuous materials, textile and polyester labels, shrink-fit sleeves and PLC labels. Our all-in-one solution is designed for small and medium print volumes – without compromising quality.



THM Multimark



THM Multimark Plus

### Features and Benefits:

- Compact All-in-One
- Reliable and fast printing
- Optional cutting and perforation function
- Compact, innovative design
- Processing of a variety of print media, including terminal markers

Type	Order Number
THM MultiMark	2599430000

Type	Order Number
THM Multimark Plus	2599440000

### Printer Accessories

Print Rollers	Type	Description	Order Number	Orange Selection
	MMP PLUS ROLLER MF (Phoenix)	For MultiFit Phoenix Markers	2661600000	
	MMP PLUS ROLLER MF-W (Wago)	For MultiFit Wago Markers	2661620000	
	MMP PLUS ROLLER TB	For WS/DEK Markers	2661600000	
	THM MMP ROLLER 15	For Labels, Shrink-fit, WO Markers	1357420000	
	THM MMP ROLLER MF (Phoenix)	For MultiFit Phoenix Markers	2518600000	
	THM MMP ROLLER MF-W (Wago)	For MultiFit Wago Markers	2519150000	
	THM MMP ROLLER TB	For WS/DEK Markers	2438500000	

Ink Ribbons	Type	Description	Order Number	Orange Selection
	RIBBON HSS HF EL 40/300	For ENDLESS SHRINK	1426210000	
	RIBBON MM 110/360 SW (BLACK)	for EL 100mm markers	2005070000	•
	RIBBON MM 80/360 SW (BLACK)	For 6-60mm EL/TM/SFX/WM/ESG/CC/WO	2005080000	•
	RIBBON MM-HS 60/300 SW (BLACK)	For ORGANIZED HEAT SHRINK	2448880000	•
RIBBON MM-TB 25/360 SW (BLACK)	For WS/DEK Markers	2005090000	•	



## MultiCard Markers

### The Complete Range

MultiCard markers have been specifically formatted for custom printing using Weidmüller plotter or PrintJet technology. Print on blank markers yourself, or let us provide you with excellent print quality and endless options (including color text and image printing) with Weidmüller's convenient custom printing services (Please note that Weidmüller requires your text and print specifications prior to processing custom print orders).

- Over 270 variants for Weidmüller and 3rd party terminals, conductors, cables and equipment
- Markers are easily separated from the frame
- Frame can be printed with project description data
- Order Numbers provided are blank/white markers, color variations are available.



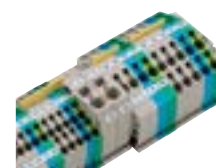
### MultiCard Markers for Weidmüller Terminals

- Dekafix (DEK) for short print sequences
- WS for longer print sequences. WS "Middle" has a centered mounting foot for use with I terminals.
- "PLUS" versions of the DEK and WS markers do not have a project field for faster installation; however, a better print result is achieved with a MCP Plotter as "PLUS" markers can sag in the center of the MultiCard when printed with a PrintJet CONNECT.
- ZS can be folded upwards to access terminal cross-connections



Type	Length x Pitch	Blank Order Number	QTY per Box	Custom Print Order Number*	QTY per Card	Orange Selection
DEK 5/3.5 MC	5x3.5mm	1755270000	500	1767730000	100	
DEK 5/5 MC	5x5mm	1609801044	1000	1609810000	200	
DEK 5/5 PLUS MC	5x5mm	1854490000	1000	1854500000	200	
DEK 5/6 MC	5x6mm	1609820000	1000	1609830000	200	
DEK 5/6 PLUS MC	5x6mm	1011320000	1000	1038650000	200	•
DEK 5/6.5 MC	5x6.5mm	1609840000	900	1609850000	180	
DEK 5/6.5 PLUS MC	5x6.5mm	1046340000	900	1046360000	180	•
DEK 5/8 MC	5x8mm	1856740000	800	1856750000	160	
DEK 5/8 PLUS MC	5x8mm	1046350000	800	1046370000	160	•
WS 12/3.5 MC	12x3.5mm	1778270000	600	1778280000	120	
WS 8/5 MC	8x5mm	1640740000	720	1640750000	144	
WS 10/5 MC	10x5mm	1635000000	720	1635010000	144	
WS 10/5 PLUS MC	10x5mm	1046380000	600	1046320000	120	•
WS 10/5 Middle	10x5mm	1792000000	720	1792010000	144	
WS 12/5 MC	12x5mm	1609860000	720	1609870000	144	
WS 8/6 MC	8x6mm	1951880000	600	1038820000	120	•
WS 10/6 MC	10x6mm	1828450000	600	1828460000	120	
WS 10/6 PLUS MC	10x6mm	1046390000	600	1046330000	120	•
WS 10/6 Middle	10x6mm	1818400000	600	1818410000	120	
WS 12/6 MC	12x6mm	1609900000	600	1609910000	120	
WS 12/6.5 MC	12x6.5mm	1609920000	540	1609930000	108	
WS 10/8 MC	10x8mm	1905950000	420	1906030000	84	
WS 12/8 MC	12x8mm	1906000000	420	1906010000	84	
ZS 10/5 MC	10x5mm	1610000000	480	1610010000	96	
ZS 15/5 MC	15x5mm	1646630000	480	1646640000	96	
ZS 12/6 MC	12x6mm	1610020000	400	1610030000	80	

Additional colors and clamping widths are available.



DEK



WS



ZS

### MultiCard WAD Markers for Terminal Assembly

The WAD series marker can be used to cover W-Series feed-through terminals, or when used with WEW 35/2 and ZEW 35/2 end brackets, to identify a group of terminals within a rail assembly.

Type	Weidmüller Terminal Types	Length x Pitch	Blank Order Number	QTY per Box	Custom Print Order Number*	QTY per Card	Orange Selection
WAD 5 MC	WDU 2.5, 4, 6 & 10	5x33.3mm	1112910000	48	1112930000	12	•
WAD 8 MC	WEW 35/2, ZEW 35/2	8x33.3mm	1112940000	48	1112970000	12	•

Pre-printed yellow markers with lightning flash and blank markers in yellow are also available.

\* Contact your Authorized Weidmüller Distributor to provide your print details prior to order.



WAD 8 MC

### MultiCard Markers for Third Party Terminals

Weidmüller's MultiFit series markers in MultiCard format are for use with other manufacturer's terminals, such as Wago, Phoenix, Wieland, Legrand, Entelec, Telemecanique, Siemens, Festo, Cabur, Woertz, and Adels RKW. Contact Weidmüller to ensure product compatibility prior to purchase. "MultiFit" marker cross reference tables are available in the MultiFit MultiCard section of our #7 Catalog: *Marking Systems-markers, printers and software*.

- For terminals with pitches (widths) of 4, 5, 6, 7.5, 8 and 10mm (marker pitch should match terminal pitch)

Type	Terminal Manufacturer Compatibility	Print Area Length x Pitch	Blank Order Number	QTY per Box	Custom Print Order Number*	QTY per Card
MF 5/5 MC	Phoenix	5x5mm	1816250000	500	1816320000	100
MF 5/6 MC	Phoenix	5x6mm	1816260000	500	1816330000	100
MF 8/5 MC		8x5mm	1677140000	600	1677150000	120
MF 10/5 MC	Wago, Phoenix, Wieland, Legrand, Entelec, Telemecanique	10x5 mm	1677160000	600	1677170000	120
MF 12/5 MC		12x5mm	1677180000	600	1677190000	120
MF10/6 MC		10x6mm	1677220000	600	1677230000	120

Additional colors, clamping widths, and markers compatible with additional manufacturers are available.



MultiFit

### MultiCard Markers for Wire and Cables

- SlimFix SF markers can be attached to wires that are already installed
- SlimFix SFX markers can be attached to wires that are already installed with a cable tie
- SlimFix Clips (SFC) are self locking, and can be attached to wires that are already installed

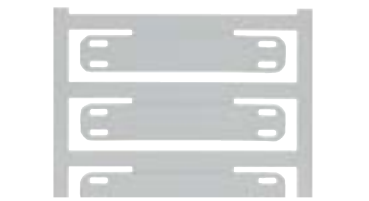


SFX MultiCard

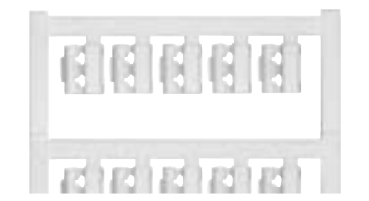
Type	Wire Cross Section mm <sup>2</sup>	Length x Width	Attachment	Blank Order Number	QTY per Box	Custom Print Order Number*	QTY per Card	Orange Selection
SF 0/12	.25 - .50 mm	12x3.2mm	Self	1919240000	400	1919250000	80	
SF 1/12	.50 - .75 mm	12x3.2mm	Self	1919390000	400	1919420000	80	
SF 2/12	.75 - 1.5 mm	12x3.6mm	Self	1919490000	400	1919500000	80	
SF 3/12	1.5 - 2.5 mm	12x4.6mm	Self	1919540000	320	1919510000	64	
SF 4/12	2.5 - 4.0 mm	12x5.7mm	Self	1919600000	160	1919610000	32	
SF 5/12	6.0 - 10.0 mm	12x7.4mm	Self	1919650000	160	1919660000	32	
SF 0/21	.25 - .50 mm	21x3.2mm	Self	1918500000	400	1918470000	80	
SF 1/21	.50 - .75 mm	21x3.2mm	Self	1918630000	400	1918640000	80	
SF 2/21	.75 - 1.5 mm	21x3.6mm	Self	1918690000	400	1918650000	80	
SF 3/21	1.5 - 2.5 mm	21x4.6mm	Self	1918910000	320	1918880000	64	
SF4/21	2.5 - 4.0 mm	21x5.7mm	Self	1919080000	192	1919050000	48	
SF 4.5/21	4.0 - 6.0 mm	21x7.4mm	Self	1919020000	96	1918990000	32	
SF 5/21	6.0 - 10.0 mm	21x7.4mm	Self	1919140000	160	1919110000	32	
SFX 10/23	from 16.0 mm	23x5mm	Cable Tie	1852390000	160	1852380000	32	
SFX 14/23	from 16.0 mm	23x8.2mm	Cable Tie	1852440000	160	1852430000	32	
SFX 9/24	from 16.0 mm	23.9x9mm	Cable Tie	1852490000	160	1852480000	32	
SFX 11/60	from 16.0 mm	11x44mm	Cable Tie	1860120000	60	1860140000	12	
SFX 30/60	from 16.0 mm	30x45mm	Cable Tie	1083230000	30	1083260000	30	•
SFC 0/12	0.5 - 1.0 mm	12x4.1mm	Self	1813130000	200	1813180000	40	
SFC 1/12	.75 - 2.5 mm	12x4.1mm	Self	1747320001	200	1752720000	40	
SFC 2/12	2.5 - 4.0 mm	12x5.8mm	Self	1758320001	120	1763480000	24	
SFC 2.5/12	4.0 - 10.0 mm	12x5.8mm	Self	1062000000	120	1062040000	24	•
SFC 0/21	0.5 - 1.0 mm	21x4.1mm	Self	1813190000	200	1813230000	40	
SFC 1/21	.75 - 2.5 mm	21x4.1mm	Self	1779080001	200	1779090000	40	
SFC 2/21	2.5 - 4.0 mm	21x5.8mm	Self	1805810000	120	1805800000	24	
SFC 2.5/21	4.0 - 10.0 mm	21x5.8mm	Self	1062050000	120	1062110000	24	•
SFC 0/30	.75 - 2.5 mm	30x4.1mm	Self	1813240000	150	1813280000	30	
SFC 1/30	2.5 - 4.0 mm	30x4.1mm	Self	1805760000	150	1805750000	30	
SFC 2/30	4.0 - 10.0 mm	30x4.1mm	Self	1805870000	90	1805860000	18	



SF



SFX



SFC



MultiCard

Additional colors, lengths and wire cross sections available. \*Contact your Authorized Weidmüller Distributor to provide your print details prior to order.

### MultiCard Markers for Devices

Device markers are for use with Weidmüller and third party manufacturer's devices such as switchgear, contactors, circuit breakers, relays, switches and transformers, etc.

- ESG non-adhesive markers are for use on a specific device type, while the adhesive markers can be used for universal marking of any device.
- CC self-adhesive markers can be used for universal marking of any device. Large size markers can be used as an alternative to engraving.
- SM markers are available in self-adhesive or standard formats, which can be placed in a SM - H push button holder. This series is typically for control and signaling devices.



Type	Device Compatibility	Length x Pitch	Self Adhesive	Blank Order Number	QTY per Box	Custom Print Order Number*	QTY per Card	Orange Selection
ESG 5/10 MC	Turck/Beckhoff SAI	5x10mm	No	1919940000	400	1038840000	80	●
ESG 6/15 MC	Riderseries SCM/SRC	6x15mm	No	1881280000	200	1881290000	40	
ESG 6/15 K	Unspecified	6x15mm	Yes	1880100000	200	1880090000	40	
ESG 6/17 K	Unspecified	6x17mm	Yes	1880120000	200	1880080000	40	
ESG 8/17	Telemecanique	8x17mm	No	1674740000	200	1674750000	40	
ESG 9/11 K	Unspecified	9x11mm	Yes	1857440000	200	1857450000	40	
ESG 9/17 K	Unspecified	9x17mm	Yes	1674760000	200	1674770000	40	
ESG 9/20	Siemens, Moller, WI SAI	9x20 mm	No	1609940000	200	1609950000	40	
ESG 10/17	Allen Bradley, Festo MT	10x17mm	No	1856700000	200	1856710000	40	



ESG

Type	Length x Pitch	Self Adhesive	Blank White Order Number	QTY per Box	Custom Print Order Number*	QTY per Card	CC-H Holder Order Number	Orange Selection
CC 15/17 K	15x17mm	Yes	1876590000	80	1876600000	16	—	
CC 15/27 K	15x27mm	Yes	1876640000	80	1876750000	16	—	
CC 15/49 K	15x49mm	Yes	1877220000	40	1877230000	8	—	
CC 15/60 K	15x60mm	Yes	1877310000	40	1877320000	8	—	
CC 30/60 K	30x60mm	Yes	1934390000	30	1934370000	6	—	
CC 85/54 K	85x54mm	Yes	1138430000	10	1138470000	2	—	●
CC 15/17 MC	15x17mm	No	1876570000	80	1876620000	16	1790430000	
CC 15/27 MC	15x27mm	No	1876770000	80	1876630000	16	1790410000	
CC 15/49 MC	15x49mm	No	1877260000	40	1877200000	8	1790420000	
CC 15/60 MC	15x60mm	No	1877350000	40	1877300000	8	1878910000	
CC 30/60 MC	30x60mm	No	1934420000	30	1934410000	6	1934430000	
CC 85/54 MC	85x54mm	No	1138400000	10	1138460000	2	—	●



CC



Type	Length x Pitch	Self Adhesive	Blank Order Number	QTY per Box	Custom Print Order Number*	QTY per Card	SM - H Holder Order Number
SM 27/8	8x27mm	No	1699820000	80	1699830000	16	
SM 27/12.5	12.5x27mm	No	1699840000	80	1699850000	16	1716640000
SM 27/18	18x27mm	No	1699860000	80	1699870000	16	1716630000
SM 27/27	27x27mm	No	1773220000	60	1773240000	12	1782710000
SM 22/22 K	22x22mm	Yes	1877570000	80	1877580000	16	
SM 27/8 K	8x27mm	Yes	1812630000	80	1713690000	16	
SM 27/12.5 K	12.5x27mm	Yes	1699880000	80	1699890000	16	1716640000
SM 27/18 K	18x27mm	Yes	1707270000	80	1707280000	16	1716630000
SM 27/27 K	27x27mm	Yes	1783000000	60	1783010000	12	1782710000



SM



SM-H Holder

Additional marker colors are available. SM - H holders are available in black only, and are compatible with protective film.

\*Contact your Authorized Weidmüller Distributor to provide your print details prior to order.

## MetalliCard Metal Markers

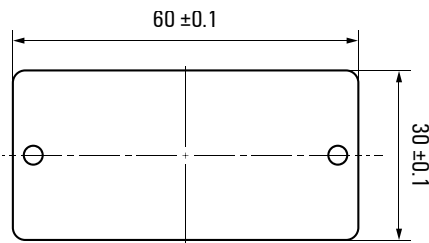
A highly resistant and coordinated labeling system

With our new MetalliCard, we are now able to offer an innovative customized labeling system that allows you to print on aluminium or stainless steel tags using the innovative PrintJet CONNECT. This is an extremely versatile solution for labeling with just one printer, one software program and one type of ink. You no longer need to hire an external agency for expensive and time-consuming engraving or punch-outs.



### Type Description

Type	Description
CC-M 30/60 2x3 AL	ClipCard
CC-M 30/60 2x3 AL	MetalliCard
CC-M 30 60 2x3 AL	30mm wide
CC-M 30/60 2x3 AL	60mm high
CC-M 30/60 2x3 AL	2 holes
CC-M 30/60 2x3 AL	3.3mm hole diameter
CC-M 30/60 2x3 AL	Aluminium
CC-M 30/60 2x3 ST	Stainless steel



Example: CC-M 30/60 2 x 3

### Technical Specifications

	Description
Tag material	anodised aluminium (AL) or stainless steel 1.4301 (ST)
Temperature range	between -55°C and +130°C
Thick	0.5mm
Primer	100 impregnated cloths and hermetically sealed



Universal Transport Inlay Frame  
 Order Number 1341120000  
 Accepts 8 marker Types: CC-M 85/54, 85/27, 27/18, 30/60, 15/45, 15/60, DIA 30 and SFX-M11/60

### Accessories

Type	QTY	Order Number
PRIMER CC-M	1	1341200000

### Tags

Type	Size	Holes	QTY	Order Number	Adhesive Backing	Inlay Transport Frame
CC-M 10/30 2X2.5 AL	10x30mm	2.5mm (double)	200	1483780000		1483770000
CC-M 10/30 2X2.5 ST	10x30mm	2.5mm (double)	200	1500150000		1483770000
CC-M 15/45 2x3 AL	15x45mm	3.3mm (double)	200	1327900000		1341090000
CC-M 15/45 2x3 ST	15x45mm	3.3mm (double)	200	1327920000		1341090000
CC-M 15/45 AL	15x45mm	-	200	1327730000	1341170000	1341090000
CC-M 15/45 ST	15x45mm	-	200	1327740000	1341170000	1341090000
CC-M 15/60 2x3 AL	15x60mm	3.3mm (double)	200	1327880000	1341150000	1341080000
CC-M 15/60 2x3 ST	15x60mm	3.3mm (double)	200	1327890000	1341150000	1341080000
CC-M 15/60AL	15x60mm	-	200	1327700000	1341150000	1341080000
CC-M 15/60ST	15x60mm	-	200	1327720000	1341150000	1341080000
CC-M 18/52 2X3 AL	18x52mm	3.3mm (double)	200	1390400000		1390430000
CC-M 18/52 2X3 ST	18x52mm	3.3mm (double)	200	1505350000		1390430000
CC-M 27/18 2X3 AL	27x18mm	3.3mm (double)	200	1463870000		1341040000
CC-M 27/18 2X3 ST	27x18mm	3.3mm (double)	200	1463880000		1341040000
CC-M 27/18 AL	27x18mm	-	200	1327630000	1341140000	1341040000
CC-M 27/18 ST	27x18mm	-	200	1327640000	1341140000	1341040000
CC-M 27/70 2X3 AL	27x70mm	3.3mm (double)	80	1500170000		1500290000
CC-M 27/70 2X3 ST	27x70mm	3.3mm (double)	80	1500190000		1500290000
CC-M 30/60 2x3 AL	30x60mm	3.3mm (double)	100	1327850000	1341130000	1341070000
CC-M 30/60 2x3 ST	30x60mm	3.3mm (double)	100	1327870000	1341130000	1341070000
CC-M 30/60AL	30x60mm	-	100	1327680000	1341130000	1341070000
CC-M 30/60ST	30x60mm	-	100	1327690000	1341130000	1341070000
CC-M 43/70 AL	43x70mm	-	80	1500200000		1500300000
CC-M 43/70 ST	43x70mm	-	80	1500220000	1500340000	1500300000
CC-M 58/35 2x3 AL	58x35mm	3.3mm (double)	100	1415710000		1415950000
CC-M 58/35 2x3 ST	58x35mm	3.3mm (double)	100	1415670000		1415950000
CC-M 58/35 AL	58x35mm	-	100	1415750000	1341130000	1415950000
CC-M 58/35 ST	58x35mm	-	100	1415730000	1341130000	1415950000
CC-M 70/48 2x3 AL	70x48mm	3.3mm (double)	40	1415720000		1415940000
CC-M 70/48 2x3 ST	70x48mm	3.3mm (double)	40	1415680000		1415940000
CC-M 70/48 AL	70x48mm	-	40	1415770000		1415940000
CC-M 70/48 ST	70x48mm	-	40	1415740000		1415940000
CC-M 85/27 2x3 AL	85x27mm	3.3mm (double)	80	1327830000	1226620000	1341050000
CC-M 85/27 2x3 ST	85x27mm	3.3mm (double)	80	1327840000	1226620000	1341050000
CC-M 85/27 AL	85x27mm	-	80	1327650000	1226620000	1341050000
CC-M 85/27 ST	85x27mm	-	80	1327670000	1226620000	1341050000
CC-M 85/54 4x3 AL	85x54mm	3.3mm (quadruple)	40	1327800000	1175850000	1341030000
CC-M 85/54 4x3 ST	85x54mm	3.3mm (quadruple)	40	1327820000	1175850000	1341030000
CC-M 85/54 AL	85x54mm	-	40	1327600000	1175850000	1341030000
CC-M 85/54 ST	85x54mm	-	40	1327620000	1175850000	1341030000
CC-M DIA 30 AL	Ø30mm	4.2mm (single)	200	1327750000	1341180000	1341100000
CC-M DIA 30 ST	Ø30mm	4.2mm (single)	200	1327770000	1341180000	1341100000
SFX-M 11/60 AL	11x60mm	-	50	1327780000		1341110000
SFX-M 11/60 ST	11x60mm	-	50	1327790000		1341110000
SFX-M 11/60-5 AL	11x60mm	-	50	1422560000		1341110000
SFX-M 11/60-5 ST	11x60mm	-	50	1422570000		1341110000
SFX-M 12/40-5 AL	12x40mm	-	50	1500230000		1500320000
SFX-M 12/40-5 ST	12x40mm	-	50	1500240000		1500320000
SFX-M 17/60-5 AL	17x60mm	-	50	1500250000		1500330000
SFX-M 17/60-5 ST	17x60mm	-	50	1500270000		1500330000



## MultiMark Markers for Weidmüller Terminal Blocks

Our range of terminal markers enables you to accomplish virtually any labeling task, on any conductor connector. Whether this involves multi-digit labeling, ready-to-use markers with standard print or customized labeling, white or color markers or group designations at the clamping points – our comprehensive product portfolio is the easy, quick and clear answer to every marking task.

### Features and Benefits:

- Flexible connector markers – print, clip, finished
- Manufacturer-independent terminal marking
- Firm hold and durable printing
- Continuous strip marker saves installation time
- Easy mounting thanks to an innovative composite material
- Large text field enables best readability



### DEK Terminal Markers

Type	Color	Height	Width	Qty	Order Number	Orange Selection
DEK 5/3.5 MM WS	white	5 mm	3.5 mm	1000	2007100000	
DEK 5/5 MM WS	white	5 mm	5 mm	800	2007110000	
DEK 5/6 MM WS	white	5 mm	6 mm	600	2007120000	
DEK 5/8 MM WS	white	5 mm	8 mm	500	2007130000	



### WS Terminal Markers

Type	Color	Height	Width	Qty	Order Number	Orange Selection
WS 12/3.5 MM WS	white	12 mm	3.5 mm	1000	2007180000	•
WS 12/5 MM WS	white	12 mm	5 mm	800	2007190000	•
WS 12/6 MM WS	white	12 mm	6 mm	600	2007200000	•
WS 12/6.5 MM WS	white	12 mm	6.5 mm	600	2619930000	
WS 12/8 MM WS	white	12 mm	8 mm	500	2007210000	
WS 8/5 MM WS	white	8 mm	5 mm	800	2007150000	•
WS 8/6 MM WS	white	8 mm	6 mm	600	2007160000	
WS 8/8 MM WS	white	8 mm	8 mm	500	2007170000	
WS-A 8/8 MM WS	white	8 mm	8.1 mm	500	2448930000	
WS 8/3.5 MM WS	white	8 mm	3.5 mm	1000	2007140000	



## MultiMark Markers for Third-Party Terminal Blocks

### MultiFit Terminal Markers

Type	Color	Height	Width	Qty	Order Number	Orange Selection
MF 10/5 MM WS	white	10 mm	5 mm	600	2519170000	
MF 10/6 MM WS	white	10 mm	6 mm	500	2519180000	
MF 10/8 MM WS	white	10 mm	8 mm	400	2519190000	
MF 5/5 MM WS	white	5 mm	5 mm	1200	2519200000	
MF 5/6 MM WS	white	5 mm	6 mm	1000	2519210000	
MF 8/5 MM WS	white	8 mm	5 mm	600	2518500000	
MF-W 5/5 Mini MM WS	white	5 mm	5 mm	800	2519220000	
MF-W 9/5 F MM WS	white	9 mm	5 mm	1200	2519240000	
MF-W 9/5 MM WS	white	9 mm	5.2 mm	800	2519230000	
MF-W 9/5.2 MM WS	white	9 mm	5 mm	800	2519250000	





## MultiMark Markers for Wire and Cables

### Heat Shrink Markers

#### Space-saving: HS

The shrink sleeve's oval contour makes mounting the marker on the cable easier. This saves time while identifying wires and cables. Once the tube has been shrunk, an optimum fit is achieved and the wire is marked in a space-saving manner.

All materials are printed in a customized manner in combination with the intuitive M-Print® PRO labeling software, which offers a number of import opportunities.

Once you have set the desired marker length in the software for the HSS...EL marker, the perforations are automatically added by the perforating appliance.



Type	Color	Length	Conductor O.D.	Qty	Order Number	Orange Selection
HS 0.8-2.4/25 MM W	white	25.4 mm	0.8 - 2.4 mm	2000	2437470000	
HS 1.0-3.2/12 MM W	white	12.7 mm	1 - 3.2 mm	4000	2526070000	
HS 1.0-3.2/25 MM W	white	25.4 mm	1 - 3.2 mm	2000	2437510000	•
HS 1.6-4.8/12 MM W	white	12.7 mm	1.6 - 4.8 mm	4000	2526090000	
HS 1.6-4.8/12 MM Y	yellow	12.7 mm	1.6 - 4.8 mm	4000	2526100000	
HS 1.6-4.8/25 MM W	white	25.4 mm	1.6 - 4.8 mm	2000	2437550000	•
HS 2.1-6.4/25 MM W	white	25.4 mm	2.1 - 6.4 mm	2000	2437630000	•
HS 2.1-6.4/50 MM W	white	50.8 mm	2.1 - 6.4 mm	1000	2437650000	
HS 3.2-9.5/25 MM W	white	25.4 mm	3.2 - 9.5 mm	1000	2437670000	
HS 4.2-12.7/25 MM W	white	25.4 mm	4.2 - 12.7 mm	1000	2437710000	
HS 4.2-12.7/50 MM W	white	50.8 mm	4.2 - 12.7 mm	500	2437730000	
HS 6.4-19.1/25 MM W	white	25.4 mm	6.4 - 19.1 mm	800	2437750000	
HS-HF 1.6-3.2/25 MM W	white	25.4 mm	1.6 - 3.2 mm	2000	2437870000	
HS-HF 2.4-4.8/25 MM W	white	25.4 mm	2.4 - 4.8 mm	2000	2437990000	
HS-HF 2.4-4.8/50 MM W	white	50.8 mm	2.4 - 4.8 mm	2000	2438010000	
HS-HF 3.2-6.4/25 MM W	white	25.4 mm	3.2 - 6.4 mm	2000	2438040000	
HSS-HF 3/16 2.8-4.2/25Y	yellow	25.4 mm	2.8 - 4.2 mm	8000	1961980000	•
HSS 0.8-2.4 EL W13M	white	13000 mm	0.8 - 2.4 mm	1	1489620000	
HSS 1.0-3.2 EL W30M	white	30000 mm	1 - 3.2 mm	1	1505850000	
HSS 1.6-4.8 EL W100M	white	100000 mm	1.6 - 4.8 mm	1	2724710000	
HSS 1.6-4.8 EL W13M	white	13000 mm	1.6 - 4.8 mm	1	1489640000	
HSS 1.6-4.8 EL W30M	white	30000 mm	1.6 - 4.8 mm	1	1505860000	
HSS 2.1-6.4 EL W13M	white	13000 mm	2.1 - 6.4 mm	1	1489650000	
HSS 2.1-6.4 EL W30M	white	30000 mm	2.1 - 6.4 mm	1	1505870000	
HSS 2.1-6.4 EL Y13M	yellow	13000 mm	2.1 - 6.4 mm	1	1489560000	
HSS 3.2-9.5 EL W13M	white	13000 mm	3.2 - 9.5 mm	1	1489660000	
HSS 3.2-9.5 EL W30M	white	30000 mm	3.2 - 9.5 mm	1	1505880000	
HSS 4.2-12.7 EL W13M	white	13000 mm	4.2 - 12.7 mm	1	1489670000	
HSS 6.4-19.1 EL W10M	white	10000 mm	6.4 - 19.1 mm	1	1489680000	
HSS 6.4-19.1 EL Y10M	yellow	10000 mm	6.4 - 19.1 mm	1	1489590000	
HSS 8.5-25.4 EL W10M	white	10000 mm	8.5 - 25.4 mm	1	1489690000	
HSS-HF 1.2-2.4 EL W13M	white	13000 mm	1.2 - 2.4 mm	1	1423330000	
HSS-HF 1.6-3.2 EL W13M	white	13000 mm	1.6 - 3.2 mm	1	1423340000	
HSS-HF 2.4-4.8 EL W13M	white	13000 mm	2.4 - 4.8 mm	1	1423350000	•



### Accessories

Type	Description	Order Number	Orange Selection
THM MMP CUTTER	Optional cutting knife for use with continues labels for the THM MultiMark Printer	1331600000	
THM MMP PERFORATOR	Optional perforation cutter for the use of endless labels and shrink sleeves for the THM MultiMark Printer	1416330000	
THM PLUS M PERFORATOR	Optional perforation cutter for the use of endless labels and shrink sleeves for the THM MultiMark PLUS Printer	1540770000	



## MultiMark Markers for Wire and Cables

### SFX Markers

#### Highly flexible: SFX

SFX markers are the preferred choice for identifying cables if you opt for a classic cable tie solution. Cables do not by nature always run in a straight line. The material used in SFX markers addresses this circumstance with highly flexible polyurethane. The marker follows every curve of the cable and latches on without resistance. SFX markers are used for cable diameters of 7.0 mm and above.



Type	Color	Height / Width	Labeling Field	Qty	Order Number	Orange Selection
SFX 11/60 MM WS	White	60 / 13 mm	44 x 10.5 mm	1000	2005340000	•
SFX 11/60 MM Y	Yellow	60 / 13 mm	44 x 10.5 mm	1000	2005400000	•
SFX 9/24 MM WS	White	26 / 15 mm	23.5 x 9 mm	1000	2005320000	•
SFX 9/24 MM Y	Yellow	26 / 15 mm	23.5 x 9 mm	1000	2005380000	•
SFX-VT 9/24 MM WS	White	26 / 15 mm	23.5 x 9 mm	1000	2621470000	



### TM-I Markers

#### Process reliability: TM-I

TM-I insert tags have a guide tab which enables them to slide easily into the transparent sleeves. Once the label is in place, the tab can be snapped off at the predetermined break point. The ready-assembled sleeves are then pushed over the wires. Your benefits: large quantities can be efficiently pre-assembled in a single step.



#### Marker

Type	Color	Height	Width	Qty	Order Number	Orange Selection
TM-I 12 MM WS	White	12 mm	4mm	2000	2005440000	
TM-I 15 MM WS	White	15 mm	4mm	2000	2005450000	
TM-I 18 MM WS	White	18 mm	4mm	2000	2005470000	•
TM-I 20 MM WS	White	20 mm	4mm	2000	2005490000	•

#### Accessories

Type	Description	Order Number	Orange Selection
TM 201/12 V0	TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm	1798640000	•
TM 201/15 V0	TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm	1798620000	•
TM 201/18 V0	TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm	1798600000	•
TM 201/20 V0	TM, Socket x 5 mm, PVC, Color: Transparent, Conductor O.D.: 1.5 - 2.5 mm	1798580000	•

### THM Write-On Markers

THM WriteOn cable markers on reels are used for labeling conductors and cables with an outside diameter of up to 36 mm. The transparent adhesive strip fixes and protects the printing on the marker surface.



Type	Color	Height	Width	Qty	Order Number	Orange Selection
THM WO VIN 12.7/19 WS	White	12.7 mm	19 mm	10000	2657100000	
THM WO VIN 25.4/31.8 WS	White	25.4 mm	31.8 mm	2000	2657140000	
THM WO VIN 25/25 WS	White	25 mm	25 mm	1	1253150000	
THM WO VIN 17.8/34 WS	White	17.8 mm	34 mm	1	1382930000	
THM WO VIN 12/18 WS	White	12 mm	18 mm	1	1382940000	
THM WO VIN 24.5/62 WS	White	24.5 mm	62 mm	1	1391410000	
THM WO 25/140 WS	White	25 mm	140 mm	1	1751561044	
THM WO 17.8/34 WS	White	17.8 mm	33.9 mm	1	1774380000	•
THM WO 12/18 WS	White	12 mm	18 mm	1	1856640000	
THM WO VIN 49.5/57.1 WS	White	49.5 mm	57.1 mm	1	1882900000	
THM WO 51/36 WS	White	50.8 mm	36 mm	1	1934190000	
THM WO 24.5/100 WS	White	24.5 mm	100 mm	2000	2004970000	
THM WO 14/22 WS	White	14 mm	22 mm	5000	2621530000	



## MultiMark Markers for Device Labels

### Standard included: CC

Our systematically coordinated product range includes labels for identifying standard components, as well as all purpose and familiar formats: such as the CC 85/54 marker for creating nameplates.

### Longevity guaranteed: ESG

The multi-coloured and formatted labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

### Prevent incorrect operation: SM

MultiMark device markers can be used for identifying equipment from multiple manufacturers. In various areas of application they guarantee the clear assignment of all components, such as control and signaling devices from different vendors.



## Device Markers

Type	Color	Height	Width	Qty	Order Number	Orange Selection
CC 85/54 MM WS	white	54 mm	85 mm	450	2005270000	
CC 85/54 MM GR	gray	54 mm	85 mm	450	2005290000	
CC 15/45 MM WS	white	15 mm	45 mm	450	2005500000	
CC 15/45 MM GE	yellow	15 mm	45 mm	450	2005520000	
CC 15/45 MM GR	gray	15 mm	45 mm	450	2005540000	
<hr/>						
ESG 6/15 MM WS	white	6 mm	15 mm	3000	2619940000	
ESG 6/17 MM WS	white	6 mm	17 mm	3000	2005100000	
ESG 6/17 MM GE	yellow	6 mm	17 mm	3000	2005110000	
ESG 8/20 MM WS	white	8 mm	20 mm	3000	2005140000	
ESG 8/20 MM GE	yellow	8 mm	20 mm	3000	2005150000	
ESG 9/17 MM WS	white	9 mm	17 mm	3000	2005190000	
ESG 9/17 MM GE	yellow	9 mm	17 mm	3000	2005210000	
<hr/>						
SM 27/18-22 MM WS	white	47.75 mm	27 mm	1000	2005840000	
SM 27/18-22 MM SW	black	47.75 mm	27 mm	1000	2005880000	
SM DIA 60-22 MM GE	yellow	60 mm	22 mm	450	2006060000	
SM 36/18-30 MM WS	white	56 mm	36 mm	1000	2006100000	
SM 36/18-30 MM SW	black	56 mm	36 mm	1000	2006140000	
SM 27/12.5 MM WS	white	12.5 mm	27 mm	1000	2006500000	
SM 27/12.5 MM GE	yellow	12.5 mm	27 mm	1000	2006510000	



## Determine Your Best Printing Solution for the Marking Application



PrintJet CONNECT & THM MultiMark

### Best Suited For:

- Detectable Markers
- Terminal Markers
- Device Markers



PrintJet CONNECT

### Best Suited For:

- MultiCard Markers
- MetalliCard Markers



THM MultiMark & THM MultiMark Plus

### Best Suited For:

- MultiMark Markers
- Heat Shrink Markers
- Write-On Markers

## Detectable Markers

### Features and Benefits:

- Detectable by metal and X-ray detectors
- Visually recognizable by blue color
- Corrosion resistant metallic filler
- Clear and resistant print image
- Different versions available for a wide variety of marking requirements



### Detectable marking solutions for the MultiCard and the MultiMark family.



Thanks to a metallic filling material, our detectable markers are identifiable by metal and X-ray detectors. This minimizes the risk of contamination during the food production process. Markers maximize safety thanks to properties such as corrosion resistance and ageing resistance against UV radiation and heat. We regularly check and confirm these properties in our accredited laboratory.

The food and beverage industry places the highest demands on quality, hygiene and safety. With our detectable marking solutions, we support our customers in ensuring that the high standards required within the HACCP concept are met.

### Detectable SFX Markers - MultiCard

Material	Color	Fire class acc. to UL 94	Temperature range
PA 6.6	Blue	HB	-40°C...100°C

Type	Width	Height	Qty.	Order number
SFX-DT 9/24 MC NE BL	15 mm	24 mm	160	<b>2602720000</b>
SFX-DT 11/60 MC NE BL	11 mm	60 mm	60	<b>2602730000</b>
SFX-DT 10/60 S MC NE BL	10 mm	60 mm	50	<b>2602740000</b>



### Detectable SFX Markers - MultiMark

Type	Material	Temperature range	Fire class acc. to UL 94	Order number
RIBBON MMHS 60/300 SW	Polyethylene	-30...65°C	HB	<b>2448880000</b>

Type	Color	Height/Width	Labeling Field	Qty.	Order number
SFX-DT 9/24 MM BL	Blue	26/15 mm	23.9 x 9 mm	1000	<b>2621490000</b>
SFX-DT 11/60 MM BL	Blue	60/13 mm	10.5 x 44 mm	1000	<b>2621480000</b>



### Detectable cable ties

Type	Width	Length	Qty.	Order number
CB-DT 100/2.5 BL	2.5 mm	100 mm	100	<b>2602750000</b>
CB-DT 140/3.5 BL	3.5 mm	140 mm	100	<b>2602760000</b>
CB-DT 200/4.5 BL	4.5 mm	200 mm	100	<b>2602770000</b>
CB-DT 280/4.5 BL	4.5 mm	280 mm	100	<b>2602780000</b>
CB-DT 380/4.5 BL	4.5 mm	380 mm	100	<b>2602790000</b>
CB-DT 360/7.5 BL	7.5 mm	360 mm	100	<b>2602800000</b>



Material	Color	Fire class acc. to UL 94	Temperature range
PA 6.6	Blue	HB	-25°C....100°C



# Hand Tools & Automatic Machines

Marking and Tools



## Professional Hand Tools

Precision tools from Weidmüller are in use worldwide. Weidmüller takes this responsibility seriously and offers comprehensive services. Tools should still function perfectly even after many years of constant use. Weidmüller therefore offers its customers the "Tool Certification" service. This technical testing routine allows Weidmüller to guarantee the proper functioning and quality of its tools. We feature a full range of heavy-duty tools designed for industrial use. Our wire and cable cutters, wire strippers and crimpers are capable of handling wires ranging in size from 26 AWG to 750 MCM.

## Automatic Machines

The rationalization of crimping processes calls for more and more automation of the individual steps. "Optimization of installation times" is what the markets of the future will be demanding of their strategic partners. Automatic machines that permit rational processing of conductor materials represent the answer to an approach geared to future needs. Versatility and functionality are decisive factors for the customer. With our comprehensive line of automated machinery, Weidmüller provides professional and efficient solutions for cable preparation and processing.








## Cutting Tools

Weidmüller's cutting portfolio includes wire and cable cutters from small wire gauges through large, stranded industrial cable. The specially designed cutters on our KT tools result in smooth and straight cuts every time, without deforming the conductor.

- Blade shape produces a smooth, straight cut without distortion of the conductor
- Ergonomic design reduces fatigue and requires less force to cut
- NEW – The KT 8, KT 12, KT 14 and KT 22 now feature 1000 VAC/1500 VDC protection



Type	KT 8	KT 12	KT 14	KT 22	KT 45R
					
<b>Order Number</b>	<b>9002650000</b>	<b>9002660000</b>	<b>1157820000</b>	<b>1157830000</b>	<b>9202040000</b>
Round/Flat Cable	Round	Round	Flat	Round	Round
Wire Max.					
Solid mm <sup>2</sup> /AWG	16/6	16/6	16/6	25/3	—
Stranded mm <sup>2</sup> /AWG	16/6	25/3	35/2	50/1	300/600 Kcmil
Flexible mm <sup>2</sup> /AWG	16/6	35/2	70/2/0	95/3/0	400/800 Kcmil

Cutting Tools for larger gauge wire are available.

## Stripping Tools

The Stripping tool product line from Weidmüller includes strippers and slicers that can be adjusted precisely to the corresponding insulation and conductor cross-section for a variety of cables and wire. The tools can process many different cable types, including: PVC and Teflon insulated wires, fiber-optic cables, data cables, PVC insulated ribbon cables and more.

- Blades precisely cut the insulation without damage to the conductor
- Designed to produce a consistent stripping result

### Stripax®, Stripax® 16 and Stripax® Ultimate

The fourth generation Stripax® is a cutter and stripper with three variations for handling flexible or solid wires with various insulation types and sizes within wire gauge range 28...6 AWG.

- Selectable two-stage partial stripping keeps insulation intact on wire ends until ready to crimp
- Strips wire up to 1"
- Cuts wire up to 10 AWG
- No splaying of individual conductors



Type	Stripax®	Stripax® 16	Stripax® Ultimate	Stripax® Ultimate XL
				
<b>Order Number</b>	<b>9005000000</b>	<b>9005610000</b>	<b>1468880000</b>	<b>1512780000</b>
Wire Gauge (AWG)	28...8	10...6	24...10	14...8
Wire Type	Round, Multi-conductors and Flat Ribbon Cables	Round	Round	Round
Insulation Type	PVC and MTW 300	PVC, MTW 300 and MTW 600	Halogen free and other tough insulation, such as SIS, THHN and Teflon	PUR (SAI Cables), Halogen free and other tough insulation, such as SIS, THHN and Teflon
Spare Cutter Blade	9054560000	9054560000	9054560000	9054560000
Spare Stripping Blade	1119030000	1119040000	1471390000	1512790000

## Stripping Tools - continued

### Cutter-Stripper AWG 22...10/AWG 30...20

Stripping of THHN, MTW, PVC and other wire insulations

- Precision ground stripping holes
- Smooth cutting of wires
- Strong gripping nose
- Easy-to-read markings
- 22 degree angle for optimum ergonomics
- Self-opening

Type	CS 22-10	CS 30-20
<b>Order Number</b>	<b>1338810000</b>	<b>1338800000</b>
Conductor mm <sup>2</sup> /AWG	22...10	30...20
Length	180	180
Weight	150	150



CS 22-10

CS 30-20

### CST

Sheathing strippers for coaxial cable

- Fast changeover to other cable and connector types thanks to adjustable and interchangeable screw holder

Type	CST
<b>Order Number</b>	<b>9030500000</b>
Cable type	Coaxial & round data cables
Conductor diameter	2.5...8 mm



CST

### AM 16

Strips or makes circumferential, lengthwise and spiral incisions in the insulation of round, PVC insulated cables

- Especially suitable for stripping cables in the cable duct
- Insulation can be stripped from any point along the cable

Type	AM 16
<b>Order Number</b>	<b>9204190000</b>
Conductor mm <sup>2</sup> /AWG	6...17/10...5
Depth mm/inches	0.8...2.5/ 1/32...3/32
Spare Blade	9001530000



AM 16

### AM 25/AM 35

Strips or makes circumferential, lengthwise and spiral incisions in the insulation of round, PVC insulated cables

- Precise cutting depth
- Insulation can be stripped from any point along the cable

Type	AM 25	AM 35
<b>Order Number</b>	<b>9001540000</b>	<b>9001080000</b>
Conductor mm <sup>2</sup> /AWG	6...25/10...4	25...36/4...2
Depth mm/inches	up to 4.5/ 3/16	up to 4.5/ 3/16
Spare Blades (2)	9001530000	9001530000



AM 25 / AM 35

## Crimping Tools

Weidmüller's crimper portfolio includes a full line of high quality crimpers, featuring different crimp profiles for wire gauges 26 through 1 AWG. In addition to crimpers used to process wire end ferrules, we offer crimp tools for stamped and turned contacts, coaxial, ring lug and flat blade connectors, fiber optic connections and more.

- Low hand force required to exert 1000 lbs pressure at crimp die
- Patented "omega" spring optimizes crimp process
- Ratchet for precise crimping



After stripping, appropriate contacts or wire end ferrules can be crimped to the cable end. Crimping produces a reliable connection between conductor and contact, and has more or less completely replaced soldering.

Crimping describes the production of a uniform, non-detachable connection between conductor and connecting element. This should be achieved exclusively by the use of a high-quality precision tool. The result is a safe, reliable connection in both electrical and mechanical terms.

Weidmüller offers a wide range of mechanical crimping tools. An integral ratchet mechanism with disengage option guarantees optimum processing quality. Crimp connections produced with Weidmüller tools comply with international standards and specifications. The DIN EN 60352-2 standard recommends that tools and contacts should come from the same manufacturer, since this is the only way to ensure consistently high quality. Otherwise, it is the user who is responsible for the quality. Weidmüller tools are designed to fit with Weidmüller contacts and thus are in full compliance with the DIN EN standard.

### Crimp Tools for Specific Contact Types

For crimping special connectors, such as cable lugs, turned contacts for HDC, and coax.

Type	CTI 6	HTN 21	CTX CM 1.6/2.5
<b>Order Number</b>	<b>9006120000</b>	<b>9014610000</b>	<b>9018490000</b>
Conductor mm <sup>2</sup> /AWG	0.5...6/20...10	0.5...6/20...10	0.14...4.0/
Conductor Type	Insulated Flat Blade/Ring Lug	Cable Lug with Crimp Claw	HD/HE/ConCept M10/M5
Additional crimpers are available for other contact types not listed above.			

### Stripax® Plus 2.5

Cuts and strips conductors with soft PVC insulation, and crimps strips of linked wire ferrules (3 in 1 Tool)\*

- Three functions: cutting, stripping, crimping
- Easy adjustment to the right ferrule cross-section
- Conductor stop to adjust strip lengths from 1/4" to 1/2"



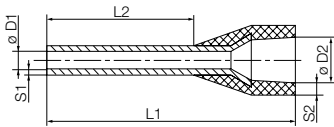
Stripax® Plus 2.5



Type	<b>Stripax® Plus 2.5</b>
Order Number	<b>902000000</b>
Crimping mm <sup>2</sup> /AWG	.05...2.5/20... 14
Stripping mm <sup>2</sup> /AWG	.05...2.5/20... 14
Cutting mm <sup>2</sup> /AWG	up to 2.5/ 14
Spare Cutter Blade	9050340000



\*Tool is compatible with Ferrule Strips Only, which are placed in the handle of the tool.



- Polypropylene conical entry funnel
- Heat-resistant up to 105°C
- The entry funnel can also be manufactured from a non-flammable material on request

Material E-Cu, electro-galvanized  
Dimensional tolerance acc. to DIN 46228 Part 4

For conductors from 0.14 to 150 mm<sup>2</sup>  
(AWG 26-300MCM)

### Weidmüller color code

#### Strips of linked wire-end ferrules



Type	mm <sup>2</sup>	AWG	L1	L2	D1	D2	S1	S2	Stripping length	Color	Qty.	Order Number
H0.5/14	0.5	20	14.0	8.0	1.0	2.6	0.15	0.25	10.0	orange	500	9004270000
H0.75/14	0.75	18	14.0	8.0	1.2	2.8	0.15	0.25	10.0	white	500	9004290000
H1.0/14	1	17	14.0	8.0	1.4	3.0	0.15	0.25	10.0	yellow	500	9004320000
H1.5/14	1.5	16	14.0	8.0	1.7	3.2	0.15	0.25	10.0	red	500	9004340000
H2.5/14D	2.5	14	14.0	8.0	2.5	4.0	0.15	0.25	11.0	blue	500	9004360000

### PZ Crimp Tools

For crimping collared and un-collared wire end ferrules in various profiles for rated conductor cross-sections.

Type	PZ 1.5	PZ 4	PZ 6/5	PZ 6 Roto L
Order Number	9005990000	9012500000	9011460000	1444050000
Conductor mm <sup>2</sup> /AWG	0.14...1.5/24...16	0.5...4/20...12	0.25...6/24...10	0.14...6/26...10
Special Features	Small/Light	1 Crimp Die	5 Crimp Stations	Rotating Die

Type	PZ 10 HEX	PZ 10 SQR	PZ 16	PZ ZH 16	PZ 50
Order Number	1445070000	1445080000	9012600000	9013600000	9006450000
Conductor mm <sup>2</sup> /AWG	0.14...10/26...8	0.14...10/26...8	6...16/10...6	6...16/10...6	25...50/3...1
Special Features	Hexagon Crimp	Square Crimp	3 Crimp Stations	For Twin Wire	3 Crimp Stations

## Crimp Tool Sets

Crimping sets combine Weidmüller tools for cutting, stripping, and crimping wire end ferrules for a given wire range in a handy case. Sets include assorted ferrules as indicated below.

### Crimp Set PZ 4

Crimp Set for cutting, stripping and crimping of wire end ferrules up to 4.0 mm<sup>2</sup>/12 AWG:

- Stripping tool Stripax® for conductors with PVC Insulation from 0.08...6.0 mm<sup>2</sup>/ 18... 10 AWG
- Crimping tool PZ 4 for wire end ferrules from 0.5...4.0 mm<sup>2</sup>/20...12 AWG
- Wire end ferrules with plastic collar

Description	Type of wire end ferrule (cond. cross-sec/length)	Qty	Tools	Qty	Order Number
Crimp Set PZ 4	H0.5/14	500			9025800000
	H0.75/14	500			
	H1.0/14	1000	Stripax®	1	
	H1.5/14	1000	PZ 4	1	
	H2.5/14	500			
	H4.0/17	250			



Crimp Set PZ 4

### Crimp Set PZ 6 Roto L

Crimp set for cutting, stripping and crimping of wire end ferrules up to 6.0 mm<sup>2</sup>/10 AWG, consisting of:

- Stripping tool Stripax® for conductors with PVC Insulation from 0.08...6.0 mm<sup>2</sup>/ 18... 10 AWG
- Crimping tool PZ 6 Roto L for wire end ferrules from 0.14...6.0 mm<sup>2</sup>/26... 10 AWG
- Wire end ferrules with plastic collar

Description	Type of wire end ferrule (cond. cross-sec/length)	Qty	Tools	Qty	Order Number
Crimp Set PZ 6 Roto L	H0.5/14	500			9028680000
	H0.75/14	500			
	H1.0/14	500	Stripax®	1	
	H1.5/14	500	PZ 6 Roto L	1	
	H2.5/15D	500			
	H4.0/18	250			
	H6.0/20	250			



Crimp Set PZ 6 Roto L

## Portable Bag 1

Workshops and factories prefer well-organized sets of tools. That results in minimal searching and preparation, and that saves money. Weidmüller implements such knowledge when combining products, characterized by good benefits for users and good functionality. Weidmüller Crimp Sets for cutting, stripping and crimping wire end ferrules provide users with practical toolkits.

### Assembly

Description	Type	Qty
Toolbag, empty	P BAG	1
Wire stripper unit	STRIPAX ULTIMATE	1
Crimping tool	PZ 10 HEX	1
Hexagon socket wrench set	SKS 2,0-8,0	1
VDE-insulated combination pliers, 160 mm long	KBZ 160	1
VDE-insulated screwdriver with slotted blade 0.6x3.5x100	SDIS 0.6X3.5X100	1

### Technical data

Depth / Width / Height 170 / 260 / 50 mm

Weight 1,443 g 3.18 lbs

### Ordering data

Type	Qty.	Order Number
P BAG SET 1	1	2561430000



P BAG SET1



## Wire End Ferrules

Weidmüller wire end ferrules are made to DIN standards and ensure the long-term quality of electrical connections. Uninsulated wire end ferrules are available in multipacks. Insulated ferrules are available in multipacks, on strips for use with the Stripax® Plus, or in reels for use with automated equipment.

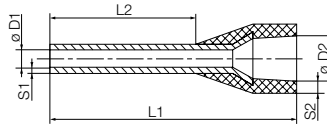


### Wire end ferrules without plastic collars



		Nominal cross-section (mm <sup>2</sup> )	AWG	Dimensions (mm)			stripping length		Type	Order Number
				L1	D1	D2	mm	Qty.		
0.25		0.25	24	5	0.7	1.65	5	1000	H 0.25/5	9018910000
0.5		0.5	20	6	1	2.1	6	1000	H 0.5/6	0282600000
		0.5	20	10	1	2.1	10	1000	H 0.5/10	9004050000
0.75		0.75	18	6	1.2	2.3	6	1000	H 0.75/6	0282700000
		0.75	18	10	1.2	2.3	10	1000	H 0.75/10	0542500000
1		1	17	6	1.4	2.5	6	1000	H 1/6	0372600000
		1	17	10	1.4	2.5	10	1000	H 1/10	0282800000
1.5		1.5	16	7	1.7	2.8	7	1000	H 1.5/7	0372700000
		1.5	16	10	1.7	2.8	10	1000	H 1.5/10	0186500000
		1.5	16	12	1.7	2.8	12	1000	H 1.5/12	9004060000
		1.5	16	18	1.7	2.8	18	1000	H 1.5/18	9004070000
2.5		2.5	14	7	2.2	3.4	7	1000	H 2.5/7	0373000000
		2.5	14	10	2.2	3.4	10	1000	H 2.5/10	9004080000
		2.5	14	12	2.2	3.4	12	1000	H 2.5/12	0186100000
		2.5	14	18	2.2	3.4	18	1000	H 2.5/18	9004090000
4		4	12	9	2.8	4	9	500	H 4/9	0373100000
		4	12	12	2.8	4	12	1000	H 4/12	0244100000
		4	12	15	2.8	4	15	500	H 4/15	9004100000
		4	12	18	2.8	4	18	1000	H 4/18	9004110000
6		6	10	10	3.5	4.7	10	500	H 6/10	9004120000
		6	10	12	3.5	4.7	12	500	H 6/12	0191900000
		6	10	15	3.5	4.7	15	500	H 6/15	0124700000
		6	10	18	3.5	4.7	18	500	H 6/18	9004130000
10		10	7	12	4.5	5.8	12	500	H 10/12	0282900000
		10	7	15	4.5	5.8	15	500	H 10/15	0124800000
		10	7	18	4.5	5.8	18	500	H 10/18	0379300000
16		16	6	12	5.8	7.5	12	500	H 16/12	0492500000
		16	6	15	5.8	7.5	15	500	H 16/15	0124300000
		16	6	18	5.8	7.5	18	100	H 16/18	0375200000
		16	6	25	5.8	7.5	25	100	H 16/25	9004150000
		16	6	32	5.8	7.5	32	100	H 16/32	9004160000
25		25	3	15	7.3	9.5	15	250	H 25/15	0124400000
		25	3	18	7.3	9.5	18	100	H 25/18	0375300000
		25	3	25	7.3	9.5	25	100	H 25/25	9004170000
		25	3	32	7.3	9.5	32	100	H 25/32	9004180000
35		35	2	18	8.3	11	18	100	H 35/18	0368900000
		35	2	25	8.3	11	25	100	H 35/25	9004190000
		35	2	30	8.3	11	30	500	H 35/30 S	9451000000
		35	2	32	8.3	11	32	100	H 35/32	9004200000
50...		50	1	18	10.3	13	18	100	H 50/18	9004210000
		50	1	25	10.3	13	25	100	H 50/25	9025880000
		50	1	32	10.3	13	32	100	H 50/32	9004220000
		70	2/0	25	12.5	15	25	50	H 70/25	9004230000
		70	2/0	32	12.5	15	32	50	H 70/32	9004240000
		95	3/0	25	14.5	17	25	50	H 95/25	9004250000
		95	3/0	32	14.5	17	32	50	H 95/32	9004260000
		120	4/0	32	16.5	19	32		H 120/32	9036240000
150	300 MCM	32	18.5	21	32	50	H 150/32	9036250000		
185	350 MCM	32	20	23.5	32	50	H 185/32	9036260000		

Insulated wire ferrules in additional color schemes and a variety of other types of connectors are available.



## Wire end ferrules with plastic collars

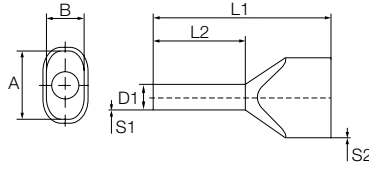
## Weidmüller standard

		Nominal cross-section		Dimensions (mm)			Stripping length		Qty.	Type	Color	Order Number	Strip pack	Ferrules in strip form	Order Number	Ferrules on reels	Order Number
		(mm <sup>2</sup> )	AWG	L1	L2	D1	D2	mm					Order Number				
0.14		0.14	26	10	6	0.6	1.5	8	500	H 0.14/10	gray		9005180000 <sup>1</sup>				
		0.14	26	12	8	0.6	1.5	10	500	H 0.14/12	gray		9028240000 <sup>1</sup>				
0.25		0.25	24	10	6	0.8	1.8	8	500	H 0.25/10	light blue	9025740000	9026050000				
		0.25	24	12	8	0.8	1.8	10	500	H 0.25/12	light blue	9025760000	9025780000				
0.34		0.34	22	10	6	0.8	2	8	500	H 0.34/10	turquoise	9025750000	9026030000				
		0.34	22	12	8	0.8	2	10	500	H 0.34/12	turquoise	9025770000	9025790000				
		0.34	22	12	8	0.8	2	10	5000	H 0.34/12	turquoise			9004390000 <sup>2</sup>			
0.5		0.5	20	10	6	1	2.6	8	500	H 0.5/10	orange		9028260000				
		0.5	20	12	6	1	2.6	8	500	H 0.5/12	orange	0409500000					
		0.5	20	14	8	1	2.6	10	500	H 0.5/14	orange	0690700000	9026060000	9004270000 <sup>2</sup>			
		0.5	20	14	8	1	2.6	10	5000	H 0.5/14	orange				9005810000 <sup>2</sup>		
		0.5	20	16	10	1	2.6	12	500	H 0.5/16	orange	9025870000	9028270000				
0.75		0.75	18	12	6	1.2	2.8	8	500	H 0.75/12	white	0409600000	9028280000				
		0.75	18	14	8	1.2	2.8	10	500	H 0.75/14	white	0462900000	9026070000	9004290000 <sup>2</sup>			
		0.75	18	14	8	1.2	2.8	10	5000	H 0.75/14	white				9005820000 <sup>2</sup>		
		0.75	18	16	10	1.2	2.8	12	500	H 0.75/16	white	9025860000	9028290000				
		0.75	18	18	12	1.2	2.8	14	500	H 0.75/18	white	9025910000	9028300000				
1		1	17	12	6	1.4	3	8	500	H 1/12	yellow	0409700000	9028310000				
		1	17	14	8	1.4	3	10	500	H 1/14	yellow	0463000000	9026080000	9004320000 <sup>2</sup>			
		1	17	14	8	1.4	3	11	5000	H 1/14	yellow				9005830000 <sup>2</sup>		
		1	17	16	10	1.4	3	12	500	H 1/16	yellow	9025950000	9028320000				
		1	17	18	12	1.4	3	15	500	H 1/18	yellow	9025930000	9028340000				
1.5		1.5	16	14	8	1.7	3.5	10	500	H 1.5/14	red	0463100000	9026090000				
		1.5	16	14	8	1.7	3.2	10	5000	H 1.5/14	red				9005840000 <sup>2</sup>		
		1.5	16	14	8	1.7	3.2	10	500	H 1.5/14	red				9004340000 <sup>2</sup>		
		1.5	16	16	10	1.7	3.5	12	500	H 1.5/16	red	0635100000	9028350000				
		1.5	16	18	12	1.7	3.5	15	500								
2.5		2.5	14	14	8	2.2	4.2	10	500	H 2.5/14 D	blue	0565600000					
		2.5	14	14	8	2.2	4	11	3000	H 2.5/14 D	blue	9019160000	9026100000				
		2.5	14	14	8	2.2	4	11	500	H 2.5/14 D	blue				9005850000 <sup>2</sup>		
		2.5	14	18	12	2.2	4.2	14	500	H 2.5/18 D	blue	9019170000					
		2.5	14	24	18	2.2	4.2	20	500	H 2.5/24 D	blue	9019180000					
4		4	12	17	10	2.8	4.8	12	500	H 4/17 D	gray	9019190000	9026010000 <sup>*</sup>				
		4	12	20	12	2.8	4.8	14	500	H 4/20 D	gray	9019200000					
		4	12	26	18	2.8	4.8	20	500	H 4/26 D	gray	9019210000					
6		6	10	20	12	3.5	6.3	14	100	H 6/20	black	0533500000					
		6	10	26	18	3.5	6.3	20	100	H 6/26	black	0565700000					
10		10	7	22	12	4.5	7.6	15	100	H 10/22	ivory	0534200000					
		10	7	28	18	4.5	7.6	21	100	H 10/28	ivory	0565800000					
16		16	6	24	12	5.8	8.8	15	100	H 16/24	green	0565900000					
		16	6	28	18	5.8	8.8	21	100	H 16/28	green	0566000000					
25		25	3	30	16	7.3	11.2	18	50	H 25/30	brown	0317000000					
		25	3	36	22	7.3	11.2	24	50	H 25/36	brown	0317100000					
35		35	2	30	16	8.3	12.7	19	50	H 35/30	beige	0317200000 <sup>1</sup>					
		35	2	30	18	8.3	12.7	21	50								
		35	2	39	25	8.3	12.7	28	50	H 35/39	beige	0317300000 <sup>1</sup>					
50...		50	1	36	20	10.3	15	26	50	H 50/36	olive	0444200000					
		50	1	40	25	10.3	15	31	50								
		70	2/0	37	20	12.7	16	26	25	H 70/40	yellow	9028200000 <sup>3</sup>					
		95	3/0	44	25	14.7	18	31	25	H 95/44	red	9028210000 <sup>3</sup>					
		120	4/0	50	30	16.5	21	36	25	H 120/50	blue	9028220000 <sup>3</sup>					
		150	300 MCM	54	32	18.5	23.5	38	25	H 150/54	yellow	9028230000 <sup>3</sup>					

1-Not UL 2-UL Pending 3-Not CSA

Strip pack 5 x 100 ferrules \*5 x 50 ferrules

## Wire End Ferrules continued



Twin-wire end ferrules with plastic collar

Packed loose

Type	ø mm <sup>2</sup>	AWG	L1	L2	D1	S1	S2	A	B	Stripping Length	Color	QTY	Order Number
H0.5/14	0.50	20	14.0	8.0	1.4	0.15	0.3	5.0	3.0	11.0	orange	500	9037200000
H0.5/16	0.50	20	16.0	10.0	1.4	0.15	0.3	5.0	3.0	13.0	orange	500	9037210000
H0.5/18	0.50	20	18.0	12.0	1.4	0.15	0.3	5.0	3.0	15.0	orange	500	9037220000
H0.75/14	0.75	18	14.0	8.0	1.7	0.15	0.3	5.5	3.0	11.0	white	500	9037230000
H0.75/16	0.75	18	16.0	10.0	1.7	0.15	0.3	5.5	3.0	13.0	white	500	9037240000
H0.75/19S	0.75	18	19.0	12.0	1.4	0.15	0.3	5.5	3.0	21.0	white	500	9202820000
H0.75/24	0.75	18	24.0	18.0	1.7	0.15	0.3	5.5	3.0	21.0	white	500	9037250000
H1.0/15	1.00	17	15.0	8.0	2.0	0.15	0.3	5.8	3.2	12.0	yellow	500	9037260000
H1.0/15S	1.00	17	16.0	8.0	2.2	0.15	0.3	5.8	3.2	12.0	yellow	500	9018690000
H1.0/19	1.00	17	19.0	12.0	2.0	0.15	0.3	5.8	3.2	16.0	yellow	500	9037270000
H1.0/25	1.00	17	25.0	18.0	2.0	0.15	0.3	5.8	3.2	22.0	yellow	500	9037280000
H1.5/16	1.50	16	16.0	8.2	2.2	0.15	0.3	6.5	3.6	11.0	red	500	9037290000
H1.5/20	1.50	16	20.0	12.0	2.2	0.15	0.3	6.5	3.6	15.0	red	500	9037300000
H1.5/26	1.50	16	26.0	18.0	2.2	0.15	0.3	6.5	3.6	21.0	red	100	9037310000
H2.5/19D	2.50	14	19.0	10.0	2.8	0.15	0.4	8.0	4.5	13.0	blue	500	9037500000
H2.5/21D	2.50	14	21.0	12.0	2.8	0.15	0.4	8.0	4.5	15.0	blue	100	9037510000
H2.5/27D	2.50	14	27.0	18.0	2.8	0.15	0.4	8.0	4.5	21.0	blue	100	9037520000
H4.0/22D	4.00	12	22.0	12.0	3.5	0.2	0.5	9.0	5.2	15.0	gray	100	9037530000
H4.0/28D	4.00	12	28.0	18.0	3.5	0.2	0.5	9.0	5.2	21.0	gray	100	9037540000
H6.0/23	6.00	10	23.0	12.0	4.5	0.2	0.5	11.4	6.2	20.0	black	100	9037320000
H6.0/29	6.00	10	29.0	18.0	4.5	0.2	0.5	11.4	6.2	24.0	black	100	9037330000
H10.0/24S	10.00	7	24.0	12.0	6.5	0.2	0.5	13.4	7.6	17.0	ivory	100	9018860000
H10.0/24	10.00	7	24.0	12.0	5.8	0.2	0.5	13.4	7.6	17.0	ivory	100	9037340000
H10.0/30	10.00	7	30.0	18.0	5.8	0.2	0.5	13.4	7.6	23.0	ivory	100	9037350000
H10.0/30S	10.00	7	30.0	18.0	6.5	0.2	0.5	13.4	7.6	23.0	ivory	100	9018870000
H16.0/29	16.00	6	29.0	16.0	8.3	0.3	0.6	17.2	9.5	20.0	green	50	9037360000
H16.0/38	16.00	6	38.0	25.0	8.3	0.3	0.6	17.2	9.5	29.0	green	50	9037370000

## Approvals



## CSA - US Certification

The following wire-end ferrules are CSA-US certified:

- Unconnected wire-end ferrules (bulk-packaged) from ~ AWG 26 – 1 (0.14 mm<sup>2</sup> to 50 mm<sup>2</sup>)
- Twin wire-end ferrules from ~ AWG 20 – 6 (2 x 0.5 mm<sup>2</sup> to 2 x 16 mm<sup>2</sup>)
- Special wire-end ferrules for use in small wire chambers and with AWG wires
- Tape-packaged wire-end ferrules on reels, or on belt, from ~ AWG 20 – 14 (0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup>)
- Un-insulated wire-end ferrules from ~ AWG 26 – 1 (0.14 mm<sup>2</sup> to 50 mm<sup>2</sup>)



## UL Certification

The following ferrules have a UL certification in conjunction with our hand tools and automatic machines:

- Unconnected wire-end ferrules (bulk packaged) from ~ AWG 26 – 1 (0.14 mm<sup>2</sup> to 50 mm<sup>2</sup>)

## Screwdrivers

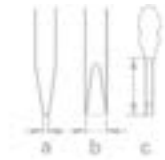
Weidmüller offers a variety of manual screwdrivers, available with blades and tip profiles in standard commercial shapes and sizes. Screwdrivers are available with protective VDE insulation molded on the screwdriver blade for use in live applications up to 1500 volts DC and 1000 volts AC - meets NFPA arc flash code (NFPA 70E 2009).

- Tips from hardened high-alloy steel
- Ergonomic design and soft finish grip material reduce fatigue



### SDIS / SDS

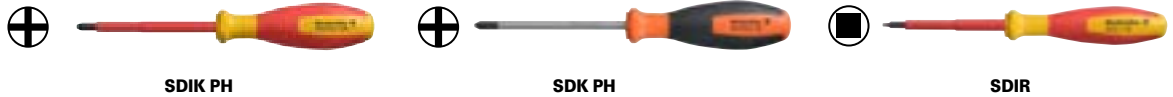
VDE insulated and standard uninsulated slotted screwdrivers.



SDIS

SDS

a (mm/inch)	b (mm/inch)	VDE Insulated				Standard			
		Type	Order Number	Blade	c (mm/inch)	Type	Order Number	Blade	c (mm/inch)
0.4/016	2/079	SDIS 0.4x2.0x60	2749780000	A	60/2.36	SDS 0.4x2.0x60	2749260000	A	60/2.36
0.4/016	2.5/098	SDIS 0.4x2.5x75	2749790000	A	75/2.95	SDS 0.4x2.5x75	2749320000	A	75/2.95
0.5/02	3.0/0.118	SDIS 0.5x3.0x100	2749800000	A	100/3.93	SDS 0.5x3.0x80	2749330000	A	80/3.15
0.6/023	3.5/0.138	SDIS 0.6x3.5x100	2749810000	A	100/3.93	SDS 0.6x3.5x100	2749340000	A	100/3.93
0.8/031	4/1.157	SDIS 0.8x4.0x100	2749820000	A	100/3.93	SDS 0.8x4.0x100	2749360000	A	100/3.93
1/039	4.5/1.177	SDIS 1.0x4.5x125	2749830000	A	125/4.92	SDS 1.0x5.5x150	2749370000	A	150/5.90
1/039	5.5/2.17	SDIS 1.0x5.5x125	2749850000	A	125/4.92	SDS 1.0x5.5x150	2749380000	A	150/5.91
1.2/047	6.5/2.56	SDIS 1.2x6.5x150	2749860000	A	150/5.91	SDS 1.2x6.5x150	2749390000	A	150/5.90
1.6/063	8/3.15	SDIS 1.6x8.0x175	2749870000	A	175/6.89				



SDIK PH

SDK PH

SDIR

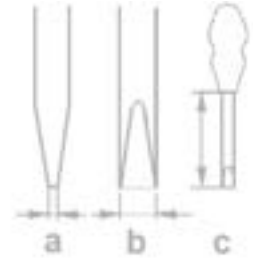
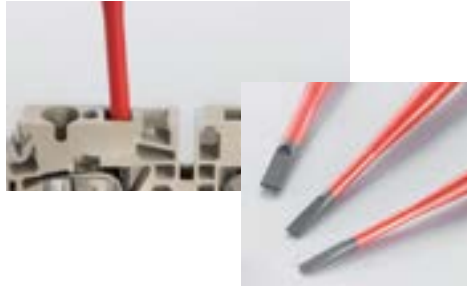
Size / AF	c (mm/inch)	VDE Insulated		Standard		Roberston Screwdriver	
		Type	Order Number	Type	Order Number	Type	Order Number
0	60/2.36	SDIK PH 0 X 60	2749880000	SDK PH0 X 60	2749400000		
1	80/3.15	SDIK PH 1 X 80	2749890000	SDK PH1 X 80	2749410000	SDIR 1 x 80	2750020000
2	100/3.93	SDIK PH 2 X 100	2749900000	SDK PH2 X 100	2749420000	SDIR 2 x 100	2750030000
3	150/5.90	SDIK PH 3 X 150	2749910000	SDK PH3 X 150	2749430000		

## 1000V Insulated screwdriver — SlimLine

VDE-insulated screwdriver, for working on live parts up to 1000 VAC and 1500 VDC. DIN EN 60900, IEC 900. Safety tested "GS", each piece tested. Bit made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

### Up to 33% Thinner Blade

The SlimLine design allows you to reach deeply inset fittings and tension clamp terminals.



### SDIS SLIM

VDE-insulated slot-head screwdriver, SDI SL DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. Soft grip component.



Type	Blade type	Size / AF	a	b	c	Order Number
SDIS SLIM 0.6X3.5X100	A		0.6	3.5	100	2749610000
SDIS SLIM 0.8X4.0X100	A		0.8	4.0	100	2749620000
SDIS SLIM 1.0X5.5X125	A		1.0	5.5	125	2749630000
SDIS SLIM 1.2X6.5X150	A		1.2	6.5	150	2749640000

### SDIK SLIM PH

VDE-insulated crosshead screwdriver Phillips type, SDIK SL PH DIN 7438, ISO 8764/2-PH, output acc. to ISO 8764-PH, Soft grip component.



Type	Blade type	Size / AF	a	b	c	Order Number
SDIK SLIM PH 1 X 80			1	80		2749650000
SDIK SLIM PH 2 X 100			2	100		2749660000

### SDIK SLIM PZ

VDE-insulated crosshead screwdriver Pozidrive type, SDIK SL PZ DIN 7438, ISO 8764/2-PZ, output acc. to ISO 8764-PZ, SoftFinish grip



Type	Blade type	Size / AF	a	b	c	Order Number
SDIK SLIM PZ 1 X 80			1	80		2749670000
SDIK SLIM PZ 2 X 100			2	100		2749680000

### SDI SET SLIM S3.5-6.5/PH1/2

6-part set: VDE insulated slotted and crosshead Ph screwdriver set



Type	Blade type	Size / AF	a	b	c	Order Number
SDIS SLIM 0.6X3.5X100	A		0.6	3.5	100	
SDIS SLIM 0.8X4.0X100	A		0.8	4.0	100	
SDIS SLIM 1.0X5.5X125	A		1.0	5.5	125	
SDIS SLIM 1.2X6.5X150	A		1.2	6.5	150	
SDIK SLIM PH 1 X 80		1		80		
SDIK SLIM PH 2 X 100		2		100		
SDI SET SLIM S3.5-6.5/PH1/2						2749580000



## VDE Insulated and Uninsulated Screwdriver Sets

6-part set: slotted and crosshead screwdriver set - VDE insulated or uninsulated set

VDE Insulated Set	
Type	Order Number
SDI SET S2.5-5.5/PH1/2	<b>2749750000</b>



Set includes:

- SDIS 0.4X2.5X75
- SDIS 0.5X3.0X100
- SDIS 0.8X4.0X100
- SDIS 1.0X5.5X125
- SDIK PH 1 X 80
- SDIK PH 2 X 100

Uninsulated Set	
Type	Order Number
SD SET S2.5-5.5/PH1/2	<b>2749200000</b>



Set includes:

- SDS 0.4X2.5X75
- SDS 0.5X3.0X80
- SDS 0.8X4.0X100
- SDS 1.0X5.5X150
- SDK PH1 X 80
- SDK PH2 X 100

## DMS/DMSI VDE Insulated and Uninsulated Torque Screwdrivers

Available with or without VDE insulation, the DMS/DMSI Manual Torque screwdriver is offered in two torque ranges for controlled, accurate tightening of screws. A variety of standard and VDE insulated blades and tip profiles are available for use with the torque screwdriver handle.

- Includes an integral scale for reading torque value
- Audible click upon reaching torque
- Setting tool ensures the right setting (included)



DMSI

DMSI Manual (Insulated)		
Type	Torque Range	Order Number
DMSI Manual 0.5-1.7	0.5-1.7 Nm	<b>9918390000</b>
DMSI Manual 2.0-7.0	2.0-7.0 Nm	<b>9918400000</b>



DMS

DMS Manual (Uninsulated)		
Type	Torque Range	Order Number
DMS Manual 0.5-1.7	0.5-1.7 Nm	<b>9918370000</b>
DMS Manual 2.0-7.0	2.0-7.0 Nm	<b>9918380000</b>



Slim Bit



WK SI with tip

a (mm/ inch)	b (mm/ inch)	Tip	Max Torque	VDE Insulated		Standard		
				Type	Order Number	Type	c (mm/inch)	Order Number
0.4/.016	2.5/.0082	Slotted	0.4 Nm	WB SI SL 0.4x2.5	<b>2433160000</b>	WK S 0.4x2.5	175/6.89	<b>9918520000</b>
0.5/.02	3.0/.118	Slotted	0.6 Nm	WB SI SL 0.5x3.0	<b>2433170000</b>	WK S 0.5x3.0	175/6.89	<b>9918530000</b>
0.6/.023	3.5/.138	Slotted	1.1 Nm	WB SI SL 0.6x3.5	<b>2433180000</b>	WK K PZ 0	175/6.89	<b>9918600000</b>
0.8/.031	4/.157	Slotted	2.5 Nm	WB SI SL 0.8x4.0	<b>2433190000</b>	WK S 0.6x3.5	175/6.89	<b>9918540000</b>
1/.039	5.5/.217	Slotted	3.8 Nm	WB SI SL 1.0x5.5	<b>2433200000</b>	WK S 0.8x4.0	175/6.89	<b>9918550000</b>
		Cross	3.8 Nm	WB IK SL PH1	<b>2433210000</b>	WK S 1.0x5.5	175/6.89	<b>9918560000</b>
		Cross	5.5 Nm	WB IK SL PH2	<b>2433220000</b>	WK K PZ1	175/6.89	<b>9918610000</b>
		Robertson	5.5Nm	WB I VK 2	<b>2506040000</b>	WK K PZ2	175/6.89	<b>9918620000</b>
		Torx ®	5.5 Nm	WB I T20	<b>2506020000</b>			

# Weidmüller Tool Chest

## Optimized organization of tools and work materials

The Weidmüller Tool Chest's functionality matched with its maximum utility creates an unmatched work station. Each Tool Chest can be individually extended, equipped and customized. This newest member of the Weidmüller family provides the basis for your mobile production, all the while providing optimum ergonomics and productivity.



Application Example of the Weidmüller Tool Chest

### Features

- **Optimal load capacities:**  
40kg (88lbs) per drawer, 400kg (881lbs) housing capacity
- **Ideal space conditions:**  
6 drawers with 600x447mm (23.6x17.6in) usable internal dimensions  
(Height: 2x75mm / 2x100mm / 1x150mm / 1x200mm)  
(Height: 0.08x2.9in/ 0.08x3.9in/ 0.04x5.9in/ 0.04x7.9in)
- **Maximum utilization:**  
Full extension of drawers and optimal drawer height
- **Perfect work safety:**  
Central locking and increased safety against unintentional opening while mobile
- **Flexible adjustment possibilities:**  
Perforated sidewalls and rear wall for the admission of accessories and tool hook
- **Highest ease of use:**  
Sturdy ergonomic sliding bar made of anodized aluminum
- **Full mobility:**  
Two smooth running, fixed and two swivel wheels made of solid rubber
- **Additional storage and working surface:**  
Non-slip plastic cover with small parts compartment
- **Additional safety:**  
Edge protection made of ABS plastic as shock absorber

With the process of wiring control cabinets being extremely time-consuming, having quick access to organized tools makes all the difference. The Weidmüller tool chest allows you to organize your tools how you want them. With its foam inserts that are tailored to the drawers and its trisection design, you can create custom tool layouts that are personalized to your needs. Not sure which tool goes where? Our foam layouts have labels for each tool, so you can quickly pack up your tools. Each tool layout has a specific QR code that leads to our online catalog with technical specs and application videos.

Learn more at [www.weidmuller.com/toolchest](http://www.weidmuller.com/toolchest)

### Simple Extension



Standard perforated walls on both sides of the tool chest allow the attachment of additional elements.

### Maximum Flexibility



Three part foam inserts allow you to tailor your workstation, resulting in a more efficient and organized work process.

### Clearly Labeled



Clearly visible markers with name and article number reveal which tool belongs where.

### Quick Identification



A QR code leads to the online catalog for further information about the tool.

### Interchangeable



Custom fit foam inserts keep your tools organized and in place, guaranteeing you always know where your tools will be.

### Tool Chest

Description	Order Number
Empty Tool Chest	2683640000
Foam Insert Universal Large	2683720000
Foam Insert Small 1	2683740000
Foam Insert Small 2	2683770000
Foam Insert Small 3	2683780000
Foam Insert Small 4	2683800000
Foam Insert Small 6	2683840000
Foam Insert Small 7	2683860000

### Complete Solution

Description	Order Number
Shop in a Box	7940108784
Tool Chest with Tools	7940108783

# Automatic Machines

Save time and increase efficiency with an automated strip and crimp machine from Weidmüller. The Automated Equipment portfolio includes strip and crimp machines for processing collared ferrules in the range of 20 to 14 AWG. If set correctly, the machines will perform consistent and repeatable crimps and strip lengths to guarantee the best connection in your application. All machines come with a one year limited warranty on parts and labor.

## POWERSTRIPPER 6.0

- Automatic stripper with a purely electric drive
- Stripping and partial stripping of flexible conductors
- Change of tools not necessary
- Stripping blade can be used on both sides
- Possibility of fast and simple adjustment to the appropriate wire cross-section
- Stripping range from 30 -10 AWG



**POWERSTRIPPER 6.0**



**POWERCRIMPER 6.0**

## POWERCRIMPER 6.0

- UL-Certified connections achieved in combination with Weidmüller Wire End Ferrules
- Electro-pneumatically crimping machine
- Processing of different types of wire end ferrules without tool changes.
  - Ferrules with plastic collar 20 -12 AWG
  - Ferrules without plastic collar 20 -12 AWG
  - Twin ferrules 2x20 -2x14 AWG
- Processing of WM wire-end ferrules of various crimping lengths
  - L2 = 6– 18 mm
- Simple and quick changeover of cross-sections, just turn around the revolving magazine

## CRIMPFIX LS

- UL-Certified connections achieved in combination with Weidmüller Wire End Ferrules
- Electrically / pneumatically driven automatic stripper and crimper
- Crimping cross section range 20 -10 AWG
- Loose wire end ferrules with the crimping length of 6, 8, or 10 mm
- Fast changeover to the appropriate cross-section; tool change not necessary
- User-friendly thanks to simple menu navigation and display with touch screen
- Can be changed to stripping mode (machine only strips)



**CRIMPFIX LS**



**CRIMPFIX R VARIO**

## CRIMPFIX R VARIO

- UL-Certified connections achieved in combination with Weidmüller Wire End Ferrules
- Electrically / pneumatically driven automatic stripper and crimper
- Crimping cross section range 0.5 –2.5 mm<sup>2</sup>
- Loose wire end ferrules with the crimping length of 8 or 10 mm
- One-touch display to change different cross sections; simultaneous installation of all five cross-sections
- User-friendly thanks to simple menu navigation and display with touch screen
- Can be changed to stripping mode (machine only strips)

Type	Description	Order Number
Stripping Machine	POWERSTRIPPER 6.0 (120 V)	9028510000
Crimping Machine	POWERCRIMPER 6.0 (120 V)	2634310000
Stripping & Crimping Machine	CRIMPFIX LS 120 V (Crimps 6, 8 and 10 mm length Ferrules)	9028540000
Stripping & Crimping Machine	CRIMPFIX R VARIO 120 V (For Ferrules on Reel)	2580000000

# Weidmüller Wire Processing Center (WPC)

## Cable assembly with the highest efficiency

### Wire processing in panel building –

#### Easy. Flexible. Efficient.

The Weidmüller WPC is a modular assembly system consisting of cable processing machines and industrial printers. The modules are interconnected via integrated interfaces and controlled via specialised software. The WPC gives users maximal freedom to enter data, control process, and integrate components like cable entry, cable sorting, or additional printers.

### Touch display with integrated planning software



### Replenishment of supplies

- Wire-end ferrules on reel
- Markers + print ribbons



### WPC Key components

- Cutoff 8 Interface
- Crimpfix R Vario
- THM MultiMark
- Workshop wagon
- Software

### Additional plugs

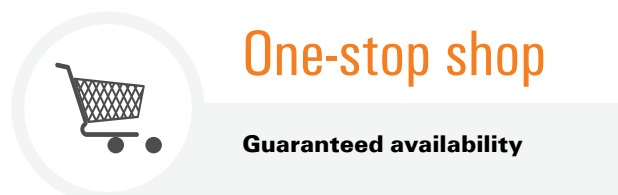
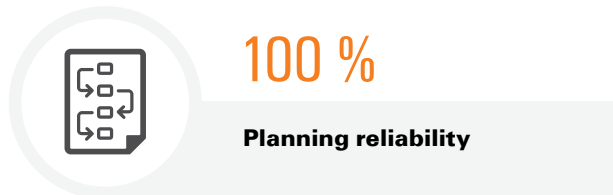
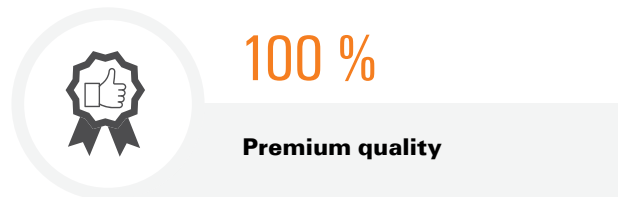
- USB, mains and air pressure

### Ordering Information

Description	Order Number
Wire Processing Center US	2728490000

## Workplace Solutions

### Optimization potential from Weidmüller



# Workplace Solutions

## Integrated solutions from Weidmüller



### Planning

The marking software M-Print® PRO simplifies the planning and labeling of markers. With the M-Print® PRO eCAD interface, you connect your CAE system with the software and experience intelligent automated component marking.

### Inventory

The markers of our MultiCard system are compatible with components such as terminal blocks, cables, wires and devices from all suppliers. MultiCard markers are available in nearly 700 versions and can be individually printed. This reduces the number of marker variants that must be kept in stock.

### Commissioning/testing

Your safety is of paramount importance when commissioning electrical systems and equipment. Weidmüller's voltage and continuity testers comply with all relevant standards and guarantee that you test according to regulations.

### Workplace/Design

Errors are reduced in installation and commissioning thanks to the clear marking of all cables and components. Our tools for cutting, stripping, crimping, testing and screwing offer you outstanding efficiency due to high flexibility in form and function. The semi-automated Wire Processing Center (WPC) enables individual process optimization with a considerable increase in efficiency.

### Design

The Weidmüller Configurator (WMC) supports you in planning and designing your panel, for example with pre-assembled terminal strips. You import data sets from your CAE system through an interface and simply transfer them back after they have been processed in the WMC.

### Sub-assembly

Our comprehensive range supports you in all phases of assembly preparation, such as: the required cabinet infrastructure components and cutting and perforation tools for the mechanical preparation of your panel components.

### Commissioning and installation

High quality and certified measuring and testing tools make final testing of panels easier and always deliver reliable measured values.

### Service

Both during and after the commissioning of your panels, you benefit from our perfectly coordinated portfolio. Seamless marking of all panel components and digital data consistency simplify and accelerate maintenance work. In this way you reduce downtimes and increase the efficiency of the entire application.

### Purchasing

The constant availability of all article and order numbers also applies to our E-shop and speeds up purchasing and reordering.

### Construction

Our automatic machines carry out repetitive tasks for you, such as cutting, cable-stripping and crimping. The labeling software M-Print® PRO directly controls printers such as the PrintJet CONNECT or the MultiMark and ensures that the right marker is printed. As stand-alone solutions or as a semi-automated Wire Processing Center (WPC), – our systems offer you maximum flexibility for your processes.

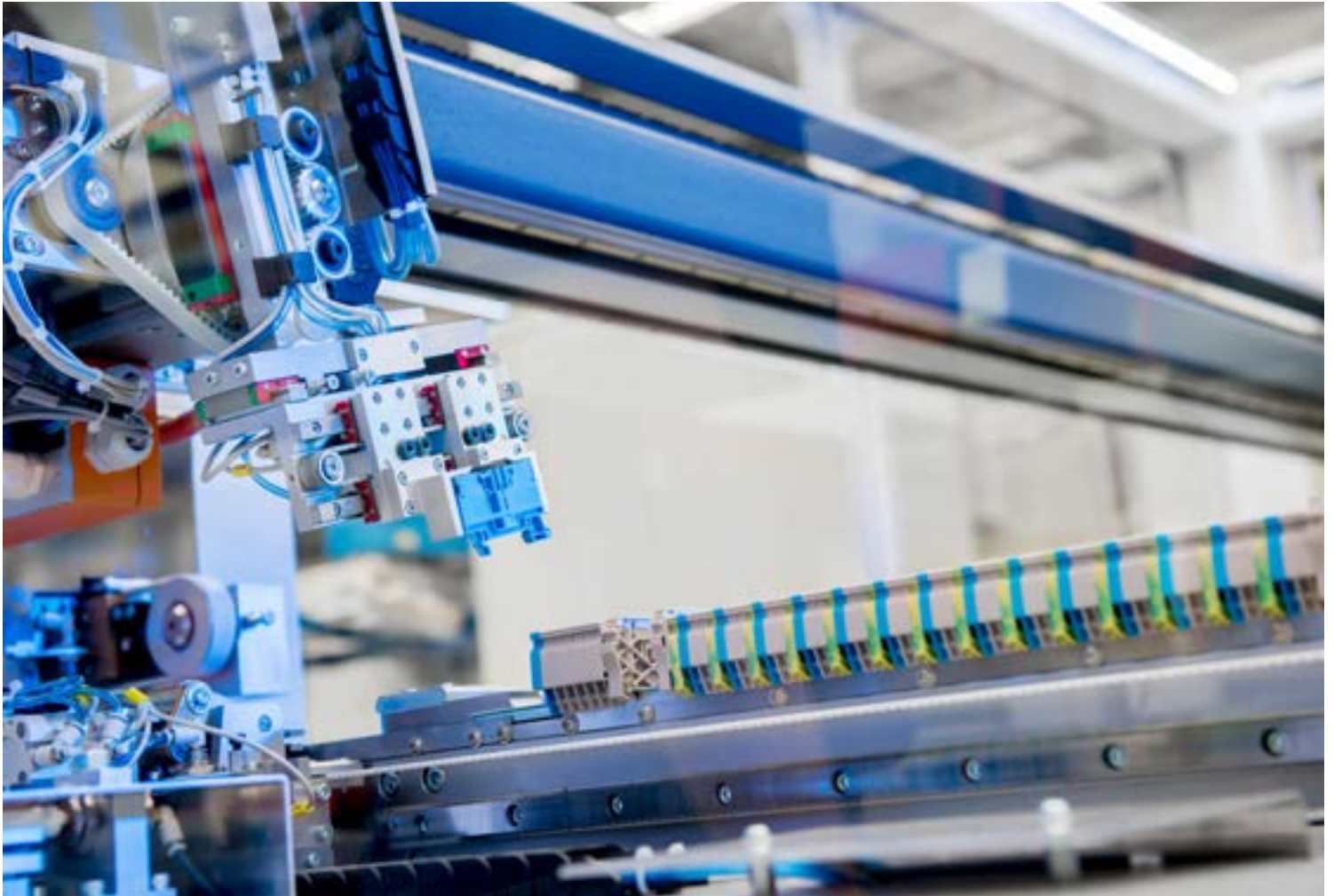
**Optimize your panel building processes with perfectly coordinated solutions for every phase of your production chain**

Let's connect. [www.weidmuller.com/workplace](http://www.weidmuller.com/workplace)



# Assembly Services

Assembly



**Whether it is modified products, pre-fitted mounting rails or complete small cabinets - we provide highly qualified assembly services.**

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Whether it is modified products, pre-fitted mounting rails or complete small cabinets - we provide a highly qualified assembled services.

[www.weidmuller.com/assemblyservices](http://www.weidmuller.com/assemblyservices)



## Weidmueller Configurator

### Easy digital engineering

Engineering processes have to be completed with ever greater speed, precision, and efficiency. Today's market expects simple and easy to understand configuration and ordering workflows. This requires intelligent tools that provide optimum support for complex planning processes.

The Weidmüller Configurator is a software solution for selecting, configuring, and ordering terminal rails and terminal rail components from the Weidmüller range.

Modified and assembled enclosures The tool supports continuous engineering workflows, from planning with E-CAD systems through to documentation. Create your configuration from over 8,000 digital Weidmüller products.

[www.weidmuller.com/weidmullerconfigurator](http://www.weidmuller.com/weidmullerconfigurator)



## Assembled terminal rails

Your processes in panel building have to be fast, flexible, and productive. This is the only way you can cut costs and increase efficiency. Depending on the application, you will have different requirements of our engineering service, delivery speed, and flexibility. From ready-specified rails available from stock, through simple configurations with a short delivery time, to complex solutions with a high engineering requirement - we can respond flexibly to your needs. With our Weidmüller Configurator you can easily configure your own custom-specific terminal rails.



## Modified and assembled enclosures

To compete internationally, your plants need to satisfy high standards of safety, quality, and performance. The smart combination of consultation, application expertise, and industry know-how is our key to finding a custom-fit solution for your application. Our standardized Klippon® Protect enclosures, developed and crafted exclusively for you, are assembled from high quality individual components from the Weidmüller catalog - and they are flexible enough for optimal adaption to your requirements. With our Weidmüller Configurator you can easily configure your own custom-specific enclosures.



## Custom cable assemblies

Requirements of modern machines and plants are increasingly specialized. The consequence is increasingly modular concepts that can be flexibly adapted to new requirements. Standard combinations, as well as specific cabling solutions, which are available quickly and guarantee a reliable transmission of power, signals, and data, are required for the implementation. Reduce your cabling workload consisting of either standardized or specific connecting lines: Weidmüller provides you with the optimal solution for every cabling task.



## Weidmüller – 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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