

**Technical
data**

**You're striving towards new solutions
We're presenting the best connections of 2017
Let's connect.**



Weidmüller 

Dear Customers,

The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via your web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



News

Highlights

Connectivity



T.48 **Safe supply for consumers in the panel**
Klippon® Connect for optimum control voltage distribution

Device Connectivity



T.128 **Make your connections fit for the future**
With the advanced solutions from RockStar® ModuPlug



T.186 **Reliable and fast connection in power electronic applications**
LLF 7.50 PCB terminal with PUSH IN connection system



Connectivity



T.9 **Fast wiring – but safe**
Klippon® Connect for optimum wiring
in confined spaces

T.18 **Safety, protection and reliable
disconnection of electrical circuits**
Klippon® Connect combines protective
functions and quick assembly

T.38 **Reliable and efficient power supply**
Really convenient with
Klippon® Connect

T.44 **The secure and efficient way of
distributing power**
Klippon® Connect provides the
required flexibility

T.46 **Clear wiring for high-density
signalling levels**
With Klippon® Connect in the smallest
of spaces

Electronics and automation



- T.62** **Load monitoring and potential distribution combined**
maxGUARD – taking control voltage distribution to a new level
- T.84** **Complete transparency down to the sensor-actuator level**
IO-Link Master for the easy integration of IO-Link devices
- T.85** **Increased failure prevention and functional and operational safety**
Simultaneous support of two networks with u-remote Modbus TCP coupler
- T.86** **Increased ship automation performance**
u-remote for shipbuilding, approved by classification societies
- T.87** **Individual system adaptation taken effortlessly into production**
u-remote for unique flexible fieldbus architectures
- T.88** **Exact measurement of weight, torque and oscillation**
Highly precise analysis of load cells with calibration function
- T.89** **Decentralised collection and forwarding of signals on the panel**
u-remote Module in IP67: robust, versatile and flexible
- T.90** **Decentralised distribution of power in modular plant designs**
FieldPower® with selective protection of system modules
- T.92** **Optimal retrofitting of energy management solutions**
The new EM Connectivity Box is a flexible, complete solution
- T.94** **More transparency about quality parameters of electrical energy**
Multi-functional power analyser powered by 24 V DC
- T.96** **Achieving the highest measurement accuracy in diverse applications**
ACT20P PRO RTCI impresses with extremely simple configuration



T.98 **Signal converters without auxiliary power supply**
ACT20P products can be loop powered via input or output

T.102 **Quick and reliable monitoring of limit values**
ACT20P limit monitoring relays for a wide range of applications

T.106 **Compact timing relay for easy adjustment of the control signals**
IT-TIMER multi-functional timing relay with multi-voltage input

T.108 **Installation of particularly compact and reliable connection solutions**
BHF 5.00 PUSH IN for CH20M housings



T.110 **Enhanced class II surge protection devices**
VARIRECTOR PU II for reliable protection in 230 V power supply networks

T.112 **Solve simple instrumentation and control tasks economically**
Robust logic units for process automation in harsh environments



T.114 **Improve the profitability of photovoltaic systems**
Customer-specific combiner box up to 1,500 V

T.116 **Detects faults in photovoltaic systems in good time**
String monitoring device for 1,500 V DC photovoltaic systems

T.118 **Replace PLC5 systems efficiently and without downtimes**
Front adapter and pre-mounted cable for PLC migration

T.122 **Migrate IPC620 systems in the shortest time possible**
Simple control system conversion with IPC620 carrier

T.126 **Connect DCS and PLS systems quickly and reliably**
Backplane systems for integrating electronic components

News Overview

Connectivity

T.144 **Simple power wiring up to 16 A and 630 V AC**
Pre-assembled M12 power cables in four codings: S, T, K and L



T.152 **Access plants, processes and protection units more efficiently**
FrontCom® Vario double frame provides more ports and a larger interface

T.174 **Connection of 24 V DC power supply in harsh environments**
PushPull Power connectors for PROFINET 24-V cabling



T.176 **Lighting for control cabinets and devices in the field**
Weidmüller Industry Light WIL

Device Connectivity



T.178 **Reliable and fast connection of power electronics devices**
LUF and LUFS series PCB terminal with PUSH IN connection

Tools

T.188 **Easy conductor stripping and crimping in one work step**
Electrically-driven stripping and crimping machine for standard applications

T.190 **Convenient processing of large cross-sections**
Handheld battery-operated hydraulic tools for crimping and cutting



T.194 **Testing a wide range of system functions**
Our instruments provide a helping hand with your electrical installation

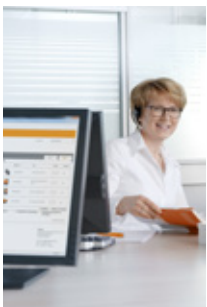


Marking system



T.198 Custom-fit labelling for your individual needs
Quick and reliable labelling with MultiMark heat shrink

Service and support



T.204 Our expertise for your requirements
Service connects - worldwide

**Experience the best connections of 2017
online on our innovations platform:**

www.weidmueller.com/best-connections

Here, you will find our new products in the application with detailed product benefits - also available for download.

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

2504960000

Let's connect.

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

Machinery

Process

Energy

Transportation

Device Manufacturers

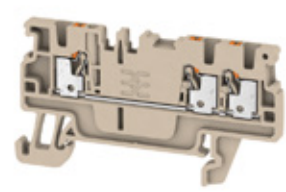
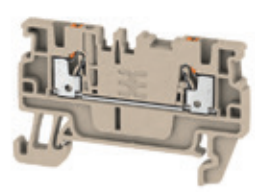
Infrastructure

A2C 1.5

1.5 mm²

A3C 1.5

1.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 3.5 x 55 x 45 |
| 17.5 / 1.5 |
| 0.14...1.5 |

| |
|-------------------|
| 3.5 x 61.5 x 45 |
| 17.5 / 1.5 |
| 0.14...1.5 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

| IEC 60947-7-1 | | | |
|-----------------------|-------------|-----|------------|
| IEC | UL | CSA | EN 60079-7 |
| 500 | 300 | | |
| 17.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 6 kV / 3 | | | |
| A1 / V-0 | | | |
| | | | |
| Rated connection | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 8 / 0.4 x 2.0 mm | | | |
| Approval in progress | | | |

| IEC 60947-7-1 | | | |
|-----------------------|-------------|-----|------------|
| IEC | UL | CSA | EN 60079-7 |
| 500 | 300 | | |
| 17.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 6 kV / 3 | | | |
| A1 / V-0 | | | |
| | | | |
| Rated connection | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 8 / 0.4 x 2.0 mm | | | |
| Approval in progress | | | |

Ordering data

| Version | dark beige |
|---------|------------|
| | blue |
| Note | |

| Type | Qty. | Order No. |
|------------|------|------------|
| A2C 1.5 | 100 | 1552790000 |
| A2C 1.5 BL | 100 | 1552820000 |

| Type | Qty. | Order No. |
|------------|------|------------|
| A3C 1.5 | 50 | 1552740000 |
| A3C 1.5 BL | 50 | 1552770000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 1.5N/2 | 17.5 A | 60 | 1985410000 |
| ZQV 1.5N/10 | 17.5 A | 20 | 1985580000 |
| AEP 2C 1.5 | | 50 | 1552600000 |
| AEP 2C 1.5 BL | | 50 | 1552610000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MHR | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 1.5N/2 | 17.5 A | 60 | 1985410000 |
| ZQV 1.5N/10 | 17.5 A | 20 | 1985580000 |
| AEP 3C 1.5 | | 50 | 1552620000 |
| AEP 3C 1.5 BL | | 50 | 1552630000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MHR | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |

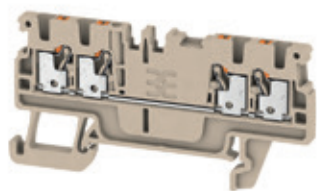
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

A4C 1.5

1.5 mm²



3.5 x 67.5 x 45
17.5 / 1.5
0.14...1.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 500 | 300 | | |
| 17.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 6 kV / 3 | | | |
| A1 / V-0 | | | |

CE

Rated connection

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

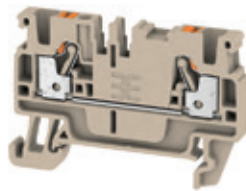
| Type | Qty. | Order No. |
|------------|------|------------|
| A4C 1.5 | 100 | 1552690000 |
| A4C 1.5 BL | 100 | 1552700000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 1.5N/2 | 17.5 A | 60 | 1985410000 |
| ZQV 1.5N/10 | 17.5 A | 20 | 1985580000 |
| AEP 4C 1.5 | | 50 | 1552640000 |
| AEP 4C 1.5 BL | | 50 | 1552650000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4x2.0x60 | | 1 | 9037160000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |

All MultiMark variants (MM) = strip markers

A2C 2.5

2.5 mm²



5.1 x 55 x 36.5
24 / 2.5
0.14...2.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

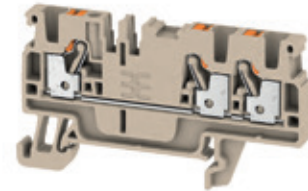
| Type | Qty. | Order No. |
|------------|------|------------|
| A2C 2.5 | 100 | 1521850000 |
| A2C 2.5 BL | 100 | 1521880000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2C 2.5 | | 50 | 1514400000 |
| AEP 2C 2.5 BL | | 50 | 1514420000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0.6x3.5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

A3C 2.5

2.5 mm²



5.1 x 66.5 x 36.5
24 / 2.5
0.14...2.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|------------|------|------------|
| A3C 2.5 | 100 | 1521740000 |
| A3C 2.5 BL | 100 | 1521780000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 3C 2.5 | | 50 | 1521510000 |
| AEP 3C 2.5 BL | | 50 | 1521520000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0.6x3.5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

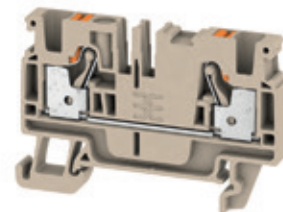
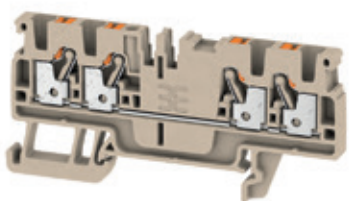
Infrastructure

A4C 2.5

2.5 mm²

A2C 4

4 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 5.1 x 77.5 x 36.5 |
| 24 / 2.5 |
| 0.14...2.5 |

| |
|-----------------|
| 6.1 x 60 x 39.5 |
| 32 / 4 |
| 0.5...4 |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

| IEC 60947-7-1 | | | |
|-------------------------|-------------|-------------|------------|
| IEC | UL | CSA | EN 60079-7 |
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |
| CE e-PA (R) | | | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

| IEC 60947-7-1 | | | |
|-------------------------|-------------|-------------|------------|
| IEC | UL | CSA | EN 60079-7 |
| 800 | 600 | 600 | |
| 32 | 30 | 30 | |
| 4 | AWG 28...10 | AWG 26...10 | |
| 8 kV / 3 | | | |
| A4 / V-0 | | | |
| CE e-PA (R) | | | |
| Rated connection | | | |
| 0.5...4 / 0.5...4 | | | |
| 0.5...4 / 0.5...4 | | | |
| 12 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|------------|
| Version | dark beige |
| | blue |
| Note | |

| Type | Qty. | Order No. |
|------------|------|------------|
| A4C 2.5 | 100 | 1521690000 |
| A4C 2.5 BL | 100 | 1521700000 |

| Type | Qty. | Order No. |
|----------|------|------------|
| A2C 4 | 100 | 2051180000 |
| A2C 4 BL | 100 | 2051210000 |

Accessories

| | |
|-----------------------------------|------------|
| Pluggable cross-connection | |
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End plate | | | |
| AEP 4C 2.5 | | 50 | 1521530000 |
| AEP 4C 2.5 BL | | 50 | 1521640000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

| Type | current | Qty. | Order No. |
|-------------------------------|---------|------|------------|
| ZQV 4N/2 | 32 A | 60 | 1527930000 |
| ZQV 4N/10 | 32 A | 20 | 1528090000 |
| End plate | | | |
| AEP 2C 4 | | 50 | 2051680000 |
| AEP 2C 4 BL | | 50 | 2051690000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 4 MHR | | 50 | 1991860000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |

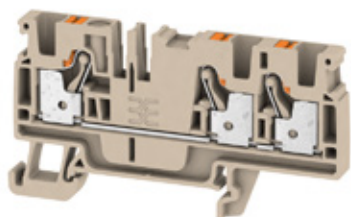
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

A3C 4

4 mm²



6.1 x 74 x 39.5
32 / 4
0.5...4



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 32 | 30 | 30 | |
| 4 | AWG 28...10 | AWG 26...10 | |
| 8 kV / 3 | | | |
| A4 / V-0 | | | |

CE

Rated connection

0.5...4 / 0.5...4
 0.5...4 / 0.5...4
 12 / 0.6 x 3.5 mm

Approval in progress

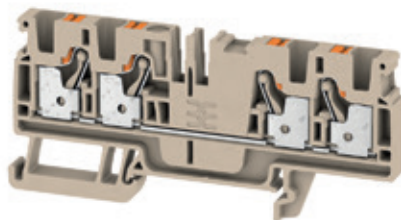
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|----------|------|------------|
| A3C 4 | 50 | 2051240000 |
| A3C 4 BL | 50 | 2051280000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 4N/2 | 32 A | 60 | 1527930000 |
| ZQV 4N/10 | 32 A | 20 | 1528090000 |
| AEP 3C 4 | | 20 | 2051720000 |
| AEP 3C 4 BL | | 20 | 2051880000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 4 MHR | | 50 | 1991860000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |

All MultiMark variants (MM) = strip markers

A4C 4

4 mm²



6.1 x 87.5 x 39.5
32 / 4
0.5...4



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 32 | 30 | 30 | |
| 4 | AWG 28...10 | AWG 26...10 | |
| 8 kV / 3 | | | |
| A4 / V-0 | | | |

CE

Rated connection

0.5...4 / 0.5...4
 0.5...4 / 0.5...4
 12 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|----------|------|------------|
| A4C 4 | 50 | 2051500000 |
| A4C 4 BL | 50 | 2051520000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 4N/2 | 32 A | 60 | 1527930000 |
| ZQV 4N/10 | 32 A | 20 | 1528090000 |
| AEP 4C 4 | | 20 | 2051900000 |
| AEP 4C 4 BL | | 20 | 2051910000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 4 MHR | | 50 | 1991860000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

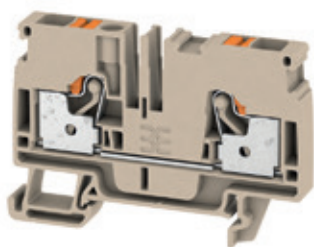
Transportation

Device Manufacturers

Infrastructure

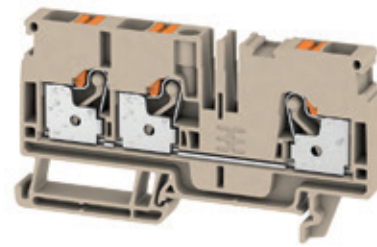
A2C 6

6 mm²



A3C 6

6 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 8.1 x 66.5 x 45.5 |
| 41 / 6 |
| 0.5...6 |

| |
|-------------------|
| 8.1 x 84.5 x 45.5 |
| 41 / 6 |
| 0.5...6 |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

| | | | |
|-------------------------|------------|------------|-------------------|
| IEC 60947-7-1 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 800 | 600 | 600 | |
| 41 | 38 | 38 | |
| 6 | AWG 22...8 | AWG 22...8 | |
| 8 kV / 3 | | | |
| A5 / V-0 | | | |
| CE | | | |
| Rated connection | | | |
| 0.5...6 / 0.5...6 | | | |
| 0.5...6 / 0.5...6 | | | |
| 12 / 1.0 x 5.5 mm | | | |
| Approval in progress | | | |

| | | | |
|-------------------------|------------|------------|-------------------|
| IEC 60947-7-1 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 800 | 600 | 600 | |
| 41 | 38 | 38 | |
| 6 | AWG 22...8 | AWG 22...8 | |
| 8 kV / 3 | | | |
| A5 / V-0 | | | |
| CE | | | |
| Rated connection | | | |
| 0.5...6 / 0.5...6 | | | |
| 0.5...6 / 0.5...6 | | | |
| 12 / 1.0 x 5.5 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|------------|
| Version | |
| | dark beige |
| | blue |
| Note | |

| | | |
|-------------|-------------|-------------------|
| Type | Qty. | Order No. |
| A2C 6 | 50 | 1992110000 |
| A2C 6 BL | 50 | 1991790000 |

| | | |
|-------------|-------------|-------------------|
| Type | Qty. | Order No. |
| A3C 6 | 50 | 1991820000 |
| A3C 6 BL | 50 | 1991830000 |

Accessories

| | |
|-----------------------------------|------------|
| Pluggable cross-connection | |
| | 2-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| Test plug | |
| Screwdriver | Standard |
| Identification systems | |

| | | | |
|-----------------------|----------------|-------------|-------------------|
| Type | current | Qty. | Order No. |
| ZQV 6N/2 | 41 A | 60 | 1985740000 |
| AEP 2C 6 | | 50 | 1991970000 |
| AEP 2C 6 BL | | 50 | 1991950000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 6 M-R | | 50 | 1991930000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

| | | | |
|-----------------------|----------------|-------------|-------------------|
| Type | current | Qty. | Order No. |
| ZQV 6N/2 | 41 A | 60 | 1985740000 |
| AEP 3C 6 | | 50 | 1991940000 |
| AEP 3C 6 BL | | 20 | 1991910000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 6 M-R | | 50 | 1991930000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

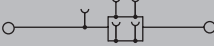
ALO 6

6 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |


| |
|----------------|
| 9 x 77 x 45.5 |
| 41 / 6 |
| 0.5...6 |



Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|-----------------------------------------------------------------------------------|------------|------------|------------|
| 800 | 600 | 600 | |
| 41 | 38 | 38 | |
| 6 | AWG 22...8 | AWG 22...8 | |
| 8 kV / 3 | | | |
| A5 / V-0 | | | |
|  | | | |
| Rated connection | | | |
| 0.5...6 / 0.5...6 | | | |
| 0.5...6 / 0.5...6 | | | |
| 12 / 1.0 x 5.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

Ordering data

| Version | |
|---------|------------|
| | dark beige |
| | blue |
| Note | |

| Type | Qty. | Order No. |
|----------|------|------------|
| ALO 6 | 20 | 1991780000 |
| ALO 6 BL | 20 | 2065120000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| Test plug | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|------------|
| ZQV 1.5N/2 | 17.5 A | 60 | 1985410000 |
| ZQV 1.5N/10 | 17.5 A | 20 | 1985580000 |
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| Identification systems | | | |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers



Technical data

Machinery

Process

Energy

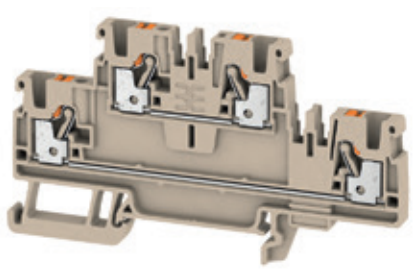
Transportation

Device Manufacturers

Infrastructure

A2T 2.5

2.5 mm²

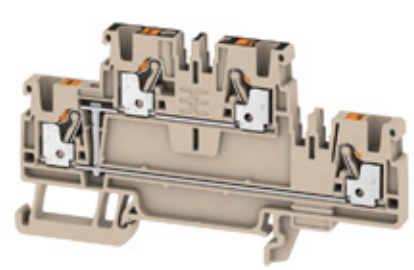


| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | 5.1 x 90 x 50.5 |
| max. current / max. cond. cross-section | 24 / 2.5 |
| Max. clamping range | 0.14...2.5 |

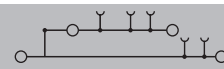


A2T 2.5 VL

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | 5.1 x 90 x 50.5 |
| max. current / max. cond. cross-section | 24 / 2.5 |
| Max. clamping range | 0.14...2.5 |



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

| Rated connection | |
|-----------------------|--|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

| Rated connection | |
|-----------------------|--|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

Ordering data

| Version | |
|---------|------------|
| | dark beige |
| | blue |
| Note | |

| Type | Qty. | Order No. |
|------------|------|-------------------|
| A2T 2.5 | 50 | 1547610000 |
| A2T 2.5 BL | 50 | 1547620000 |

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| A2T 2.5 VL | 50 | 1547650000 |
| A2T 2.5 VL BL | 50 | 1547660000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEP 2T 2.5 BL | | 20 | 1547700000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEP 2T 2.5 BL | | 20 | 1547700000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

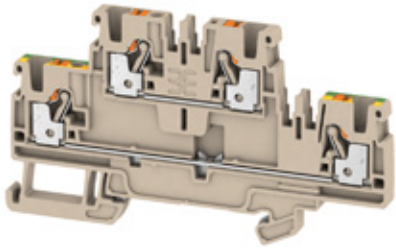
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

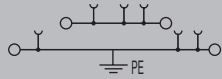
All MultiMark variants (MM) = strip markers

A2T 2.5 FT-PE

2.5 mm²



5.1 x 90 x 50.5
24 / 2.5
0.14...2.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5
 0.5...2.5 / 0.5...2.5
 10 / 0.6 x 3.5 mm

Approval in progress

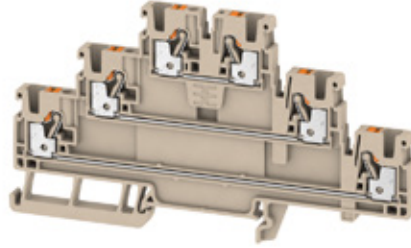
| Type | Qty. | Order No. |
|---------------|------|-------------------|
| A2T 2.5 FT-PE | 50 | 1547640000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEP 2T 2.5 BL | | 20 | 1547700000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

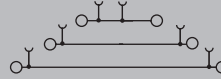
All MultiMark variants (MM) = strip markers

A3T 2.5

2.5 mm²



5.1 x 116 x 64.5
22 / 2.5
0.14...2.5



DIN EN 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|----|-----|------------|
| 800 | | | |
| 22 | | | |
| 2.5 | | | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

Rated connection

0.5...2.5 / 0.5...2.5
 0.5...2.5 / 0.5...2.5
 10 / 0.6 x 3.5 mm

Approval in progress

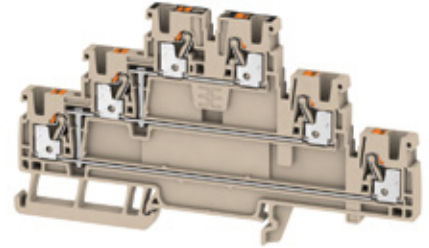
| Type | Qty. | Order No. |
|------------|------|-------------------|
| A3T 2.5 | 50 | 2428510000 |
| A3T 2.5 BL | 50 | 2428520000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 3T 2.5 | | 20 | 2428560000 |
| AEP 3T 2.5 BL | | 20 | 2428860000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

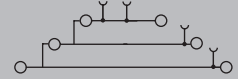
All MultiMark variants (MM) = strip markers

A3T 2.5 VL

2.5 mm²



5.1 x 116 x 64.5
24 / 2.5
0.14...2.5



DIN EN 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|----|-----|------------|
| 800 | | | |
| 24 | | | |
| 2.5 | | | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

Rated connection

0.5...2.5 / 0.5...2.5
 0.5...2.5 / 0.5...2.5
 10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| A3T 2.5 VL | 25 | 2428540000 |
| A3T 2.5 VL BL | 25 | 2428850000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 3T 2.5 | | 20 | 2428560000 |
| AEP 3T 2.5 BL | | 20 | 2428860000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

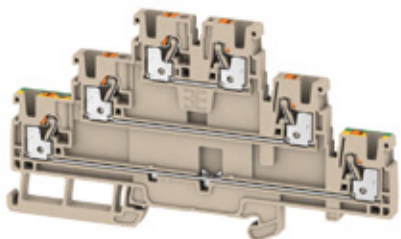
Transportation

Device Manufacturers

Infrastructure

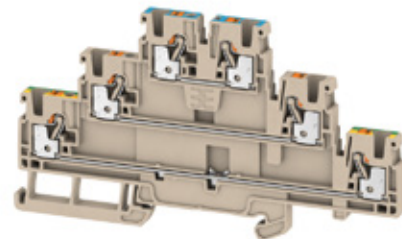
A3T 2.5 FT-FT-PE

2.5 mm²



A3T 2.5 N-FT-PE

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 5.1 x 116 x 64.5 |
| 24 / 2.5 |
| 0.14...2.5 |

| |
|-------------------|
| 5.1 x 116 x 64.5 |
| 24 / 2.5 |
| 0.14...2.5 |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

DIN EN 60947-7-1, DIN EN 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-------------------------|----|----------|------------|
| 800 | | | |
| 24 | | | |
| 2.5 | | | |
| | | 8 kV / 3 | |
| | | A3 / V-0 | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

DIN EN 60947-7-1, DIN EN 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-------------------------|----|----------|------------|
| 800 | | | |
| 24 | | | |
| 2.5 | | | |
| | | 8 kV / 3 | |
| | | A3 / V-0 | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|--------------------|
| Version | |
| | dark beige blue |
| Note | |

| Type | Qty. | Order No. |
|------------------|------|-------------------|
| A3T 2.5 FT-FT-PE | 50 | 2428530000 |

| Type | Qty. | Order No. |
|-----------------|------|-------------------|
| A3T 2.5 N-FT-PE | 50 | 2428840000 |

Accessories

| | |
|-----------------------------------|------------|
| Pluggable cross-connection | |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End plate | | | |
| AEP 3T 2.5 | | 20 | 2428560000 |
| AEP 3T 2.5 BL | | 20 | 2428860000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

| Type | current | Qty. | Order No. |
|-------------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End plate | | | |
| AEP 3T 2.5 | | 20 | 2428560000 |
| AEP 3T 2.5 BL | | 20 | 2428860000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

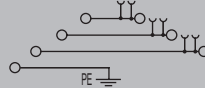
All MultiMark variants (MM) = strip markers

AMC 2.5

2.5 mm²



5.1 x 107 x 88.5
21 / 2.5
0.14...2.5



DIN EN 60947-7-1, DIN EN 60947-7-2

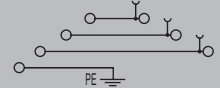
| IEC | UL | CSA | EN 60079-7 |
|-----------------------|----|----------|------------|
| 690 | | | |
| 21 | | | |
| 2.5 | | | |
| | | 8 kV / 3 | |
| | | A3 / V-0 | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

AMC 2.5 800 V

2.5 mm²



6.1 x 107 x 88.5
21 / 2.5
0.14...2.5



DIN EN 60947-7-1, DIN EN 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----------------------|----|----------|------------|
| 800 | | | |
| 21 | | | |
| 2.5 | | | |
| | | 8 kV / 3 | |
| | | A3 / V-0 | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

Ordering data

| Version | |
|---------|------------|
| | dark beige |
| Note | |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| Vertical jumpers | |
| | 1-pole |
| End plate | |
| | dark beige |
| End bracket | |
| | dark beige |
| | dark beige |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMC 2.5 | 50 | 2434340000 |

| Type | Qty. | Order No. |
|--------------|------|------------|
| AMC 2.5 800V | 50 | 2434370000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| ZVQ 2.5/1.5 | 23 A | 50 | 1720700000 |
| AEP MC 2.5 | | 25 | 2433820000 |
| AEB 35 SC/1 | 50 | | 1991920000 |
| ZEW 35/2 | 20 | | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | | 1854490000 |
| DEK 5/5 MM WS | 800 | | 2007110000 |
| WS 8/5 MM WS | 800 | | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | | 2003770000 |
| SNAPMARK I | 50 | | 1805880000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZVQ 2.5/1.5 | 23 A | 50 | 1720700000 |
| AEB 35 SC/1 | 50 | | 1991920000 |
| ZEW 35/2 | 20 | | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | | 1854490000 |
| DEK 5/5 MM WS | 800 | | 2007110000 |
| WS 8/5 MM WS | 800 | | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | | 2003770000 |
| SNAPMARK I | 50 | | 1805880000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

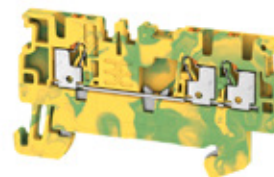
Infrastructure

A2C 1.5 PE

1.5 mm²

A3C 1.5 PE

1.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | -/mm ² |
| Max. clamping range | mm ² |

| | |
|-----------------|--|
| 3.5 x 55 x 33.5 | |
| / 1.5 | |
| 0.14...1.5 | |

| | |
|-------------------|--|
| 3.5 x 61.5 x 33.5 | |
| / 1.5 | |
| 0.14...1.5 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| for wire cross-section | mm ² |
| Rated voltage to adjoining terminal | V |
| Rated impulse withstand voltage to adjacent terminal | kV |
| Rated short-time current | |
| Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

| | | | |
|------------------------------|-------------|------------|-------------------|
| IEC 60947-7-2 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 1.5 | AWG 26...14 | | |
| 500 | | | |
| 6 | | | |
| 180 A (1.5 mm ²) | | | |
| 3 | | | |
| A1 / V-0 | | | |
| | | | |
| Rated connection | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 8 / 0.4 x 2.0 mm | | | |
| Approval in progress | | | |

| | | | |
|------------------------------|-------------|------------|-------------------|
| IEC 60947-7-2 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 1.5 | AWG 26...14 | | |
| 500 | | | |
| 6 | | | |
| 180 A (1.5 mm ²) | | | |
| 3 | | | |
| A1 / V-0 | | | |
| | | | |
| Rated connection | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 0.5...1.5 / 0.5...1.5 | | | |
| 8 / 0.4 x 2.0 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|--------------|
| Version | green/yellow |
| Note | |

| | | |
|-------------|-------------|------------------|
| Type | Qty. | Order No. |
| A2C 1.5 PE | 50 | 1552680000 |

| | | |
|-------------|-------------|------------------|
| Type | Qty. | Order No. |
| A3C 1.5 PE | 50 | 1552670000 |

Accessories

| | |
|-------------------------------|------------------|
| End plate | dark beige |
| End bracket | dark beige |
| Test adapter | 1-pole stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | Standard |
| Identification systems | |

| | | | |
|-------------------------|----------------|-------------|------------------|
| Type | current | Qty. | Order No. |
| AEP 2C 1.5 | | 50 | 1552600000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |

| | | | |
|-------------------------|----------------|-------------|------------------|
| Type | current | Qty. | Order No. |
| AEP 3C 1.5 | | 50 | 1552620000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |

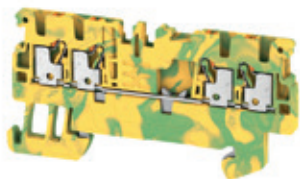
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

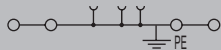
All MultiMark variants (MM) = strip markers

A4C 1.5 PE

1.5 mm²



3.5 x 67.5 x 33.5
/ 1.5
0.14...1.5



IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----|------------------------------|-----|------------|
| 1.5 | AWG 26...14 | | |
| 500 | | | |
| 6 | | | |
| | 180 A (1.5 mm ²) | | |
| | 3 | | |
| | A1 / V-0 | | |

CE

Rated connection

0.5...1.5 / 0.5...1.5
0.5...1.5 / 0.5...1.5
8 / 0.4 x 2.0 mm

Approval in progress

| Type | Qty. | Order No. |
|------------|------|------------|
| A4C 1.5 PE | 50 | 1552660000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP 4C 1.5 | | 50 | 1552640000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |

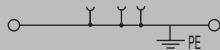
All MultiMark variants (MM) = strip markers

A2C 2.5 PE

2.5 mm²



5.1 x 55 x 36.5
/ 2.5
0.14...2.5



IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----|------------------------------|-------------|------------|
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 800 | | | |
| 8 | | | |
| | 300 A (2.5 mm ²) | | |
| | 3 | | |
| | A3 / V-0 | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

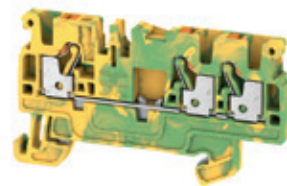
| Type | Qty. | Order No. |
|------------|------|------------|
| A2C 2.5 PE | 50 | 1521680000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP 2C 2.5 | | 50 | 1514400000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

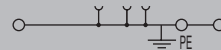
All MultiMark variants (MM) = strip markers

A3C 2.5 PE

2.5 mm²



5.1 x 66.5 x 36.5
/ 2.5
0.14...2.5



IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----|------------------------------|-------------|------------|
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 800 | | | |
| 8 | | | |
| | 300 A (2.5 mm ²) | | |
| | 3 | | |
| | A3 / V-0 | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|------------|------|------------|
| A3C 2.5 PE | 50 | 1521670000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP 3C 2.5 | | 50 | 1521510000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MI-R | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

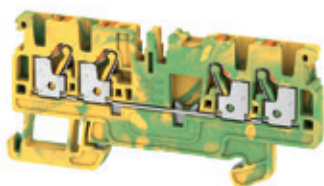
Transportation

Device Manufacturers

Infrastructure

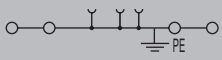
A4C 2.5 PE

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | -/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 5.1 x 77.5 x 36.5 |
| / 2.5 |
| 0.14...2.5 |



Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| for wire cross-section | mm ² |
| Rated voltage to adjoining terminal | V |
| Rated impulse withstand voltage to adjacent terminal | kV |
| Rated short-time current | |
| Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |

IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|------------------------------|-------------|-------------|------------|
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 800 | | | |
| 8 | | | |
| 300 A (2.5 mm ²) | | | |
| 3 | | | |
| A3 / V-0 | | | |

| | |
|---------------------------------------|-----------------|
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |

| | |
|-------------------------|--|
| Rated connection | |
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Note

Approval in progress

Ordering data

| | |
|----------------|--------------|
| Version | green/yellow |
| Note | |

| Type | Qty. | Order No. |
|------------|------|-------------------|
| A4C 2.5 PE | 50 | 1521540000 |

Accessories

| | |
|-------------------------------|-----------------------------------------|
| End plate | dark beige |
| End bracket | dark beige |
| Test adapter | 1-pole stackable 3-pole 5-pole |
| Test plug | |
| Screwdriver | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| AEP 4C 2.5 | | 50 | 1521530000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

For detailed information on other accessories and application in the online catalogue

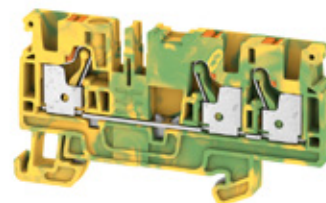
All MultiMark variants (MM) = strip markers

A2C 4 PE

4 mm²

A3C 4 PE

4 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | -/mm ² |
| Max. clamping range | mm ² |

| | |
|-----------------|--|
| 6.1 x 60 x 39.5 | |
| / 4 | |
| 0.5...4 | |

| | |
|-----------------|--|
| 6.1 x 74 x 39.5 | |
| / 4 | |
| 0.5...4 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| for wire cross-section | mm ² |
| Rated voltage to adjoining terminal | V |
| Rated impulse withstand voltage to adjacent terminal | kV |
| Rated short-time current | |
| Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |

| | | | |
|----------------------------|-------------|-------------|-------------------|
| IEC 60947-7-2 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 4 | AWG 28...10 | AWG 26...10 | |
| 800 | | | |
| 8 | | | |
| 480 A (4 mm ²) | | | |
| 3 | | | |
| A4 / V-0 | | | |
| | | | |
| Rated connection | | | |
| 0.5...4 / 0.5...4 | | | |
| 0.5...4 / 0.5...4 | | | |
| 12 / 0.6 x 3.5 mm | | | |

| | | | |
|----------------------------|-------------|-------------|-------------------|
| IEC 60947-7-2 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 4 | AWG 28...10 | AWG 26...10 | |
| 800 | | | |
| 8 | | | |
| 480 A (4 mm ²) | | | |
| 3 | | | |
| A4 / V-0 | | | |
| | | | |
| Rated connection | | | |
| 0.5...4 / 0.5...4 | | | |
| 0.5...4 / 0.5...4 | | | |
| 12 / 0.6 x 3.5 mm | | | |

Note

Approval in progress

Approval in progress

Ordering data

| | |
|----------------|--------------|
| Version | green/yellow |
| Note | |

| | | |
|-------------|-------------|-------------------|
| Type | Qty. | Order No. |
| A2C 4 PE | 50 | 2051360000 |

| | | |
|-------------|-------------|-------------------|
| Type | Qty. | Order No. |
| A3C 4 PE | 50 | 2051410000 |

Accessories

| | |
|-------------------------------|------------------|
| End plate | dark beige |
| End bracket | dark beige |
| Test adapter | 1-pole stackable |
| Test plug | |
| Screwdriver | Standard |
| Identification systems | |

| | | | |
|-------------------------|----------------|-------------|-------------------|
| Type | current | Qty. | Order No. |
| AEP 2C 4 | | 50 | 2051680000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 4 MHR | | 50 | 1991860000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |

| | | | |
|-------------------------|----------------|-------------|-------------------|
| Type | current | Qty. | Order No. |
| AEP 3C 4 | | 20 | 2051720000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 4 MHR | | 50 | 1991860000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data
Machinery
Process
Energy
Transportation
Device Manufacturers
Infrastructure

Technical data

Machinery

Process

Energy

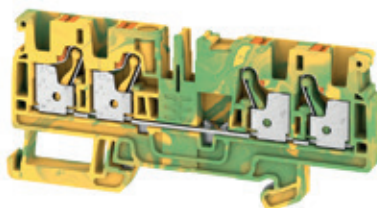
Transportation

Device Manufacturers

Infrastructure

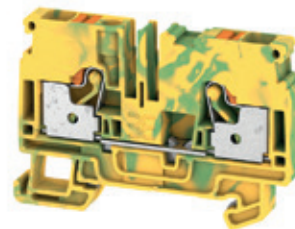
A4C 4 PE

4 mm²



A2C 6 PE

6 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | -/mm ² |
| Max. clamping range | mm ² |

| | |
|-------------------|--|
| 6.1 x 87.5 x 39.5 | |
| / 4 | |
| 0.5...4 | |

| | |
|-------------------|--|
| 8.1 x 66.5 x 45.5 | |
| / 6 | |
| 0.5...6 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| for wire cross-section | mm ² |
| Rated voltage to adjoining terminal | V |
| Rated impulse withstand voltage to adjacent terminal | kV |
| Rated short-time current | |
| Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

| | | | |
|-------------------------|----------------------------|-------------|-------------------|
| IEC 60947-7-2 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 4 | AWG 28...10 | AWG 26...10 | |
| 800 | | | |
| 8 | | | |
| | 480 A (4 mm ²) | | |
| | 3 | | |
| | A4 / V-0 | | |
| | | | |
| Rated connection | | | |
| 0.5...4 / 0.5...4 | | | |
| 0.5...4 / 0.5...4 | | | |
| 12 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

| | | | |
|-------------------------|----------------------------|------------|-------------------|
| IEC 60947-7-2 | | | |
| IEC | UL | CSA | EN 60079-7 |
| 6 | AWG 22...8 | AWG 22...8 | |
| 800 | | | |
| 8 | | | |
| | 720 A (6 mm ²) | | |
| | 3 | | |
| | A5 / V-0 | | |
| | | | |
| Rated connection | | | |
| 0.5...6 / 0.5...6 | | | |
| 0.5...6 / 0.5...6 | | | |
| 12 / 1.0 x 5.5 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|--------------|
| Version | green/yellow |
| Note | |

| | | |
|-------------|-------------|-------------------|
| Type | Qty. | Order No. |
| A4C 4 PE | 50 | 2051560000 |

| | | |
|-------------|-------------|-------------------|
| Type | Qty. | Order No. |
| A2C 6 PE | 50 | 1991810000 |

Accessories

| | |
|-------------------------------|------------------|
| End plate | dark beige |
| End bracket | dark beige |
| Test adapter | 1-pole stackable |
| Test plug | |
| Screwdriver | Standard |
| Identification systems | |

| | | | |
|-------------------------|----------------|-------------|-------------------|
| Type | current | Qty. | Order No. |
| AEP 4C 4 | | 20 | 2051900000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 4 MHR | | 50 | 1991860000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |

| | | | |
|-----------------------|----------------|-------------|-------------------|
| Type | current | Qty. | Order No. |
| AEP 2C 6 | | 50 | 1991970000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 6 MHR | | 50 | 1991930000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

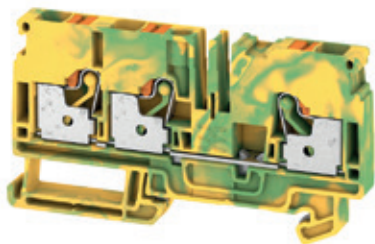
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

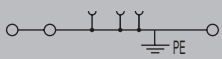
All MultiMark variants (MM) = strip markers

A3C 6 PE

6 mm²



8.1 x 84.5 x 45.5
/ 6
0.5...6



IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----|----------------------------|------------|------------|
| 6 | AWG 22...8 | AWG 22...8 | |
| 800 | | | |
| 8 | | | |
| | 720 A (6 mm ²) | | |
| | 3 | | |
| | A5 / V-0 | | |

CE

Rated connection

0.5...6 / 0.5...6
0.5...6 / 0.5...6
12 / 1.0 x 5.5 mm

Approval in progress

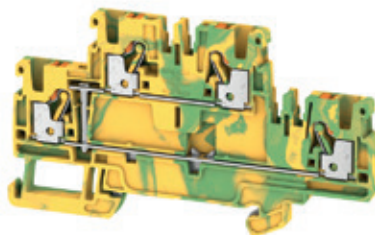
| Type | Qty. | Order No. |
|----------|------|------------|
| A3C 6 PE | 50 | 1991850000 |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|------------|
| AEP 3C 6 | | 50 | 1991940000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 6 MHR | | 50 | 1991930000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

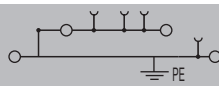
All MultiMark variants (MM) = strip markers

A2T 2.5 PE

2.5 mm²



5.1 x 90 x 50.5
/ 2.5
0.14...2.5



IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----|------------------------------|-------------|------------|
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 800 | | | |
| 8 | | | |
| | 300 A (2.5 mm ²) | | |
| | 3 | | |
| | A3 / V-0 | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

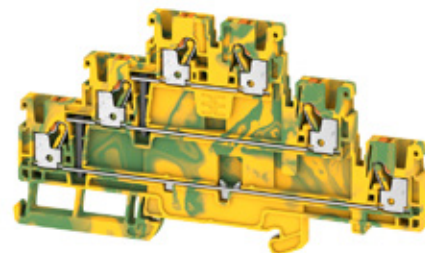
| Type | Qty. | Order No. |
|------------|------|------------|
| A2T 2.5 PE | 50 | 1547680000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |

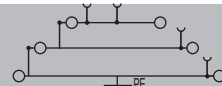
All MultiMark variants (MM) = strip markers

A3T 2.5 PE

2.5 mm²



5.1 x 116 x 64.5
/ 2.5
0.14...2.5



DIN EN 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|-----|------------------------------|-----|------------|
| 2.5 | | | |
| 800 | | | |
| 8 | | | |
| | 300 A (2.5 mm ²) | | |
| | 3 | | |
| | A3 / V-0 | | |

Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|------------|------|------------|
| A3T 2.5 PE | 50 | 2428550000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP 3T 2.5 | | 20 | 2428560000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure



Technical data

Machinery

Process

Energy

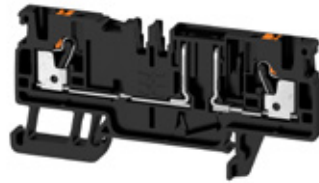
Transportation

Device Manufacturers

Infrastructure

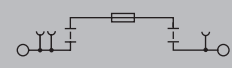
AFS 2.5 CF 2C

2.5 mm²



AFS 4 2C

4 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 5.1 x 77.5 x 36.5 |
| 10 / 2.5 |
| 2.5...2.5 |

| |
|----------------|
| 6.1 x 80 x 69 |
| 6.3 / 4 |
| 0.5...4 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage to adjoining terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | |
| Note | |

In accordance with IEC 60947-7-3

| IEC | UL | CSA | EN 60079-7 |
|-----------------------|------|-----|------------|
| 400 | | | |
| 10 | | | |
| 2.5 | | | |
| | / 3 | | |
| | A3 / | | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Note | | | |

DIN EN 60947-7-3

| IEC | UL | CSA | EN 60079-7 |
|-------------------|----------|-----|------------|
| 250 | | | |
| 6.3 | | | |
| 4 | | | |
| | / 3 | | |
| | A4 / V-0 | | |
| Rated connection | | | |
| 0.5...4 / 0.5...4 | | | |
| 0.5...4 / 0.5...4 | | | |
| 12 / 0.6 x 3.5 mm | | | |
| Note | | | |

Ordering data

| Version | |
|---------|---------------------------|
| | 500 V AC/DC, without LED |
| | 10-36 V AC/DC, with LED |
| | 30-70 V AC/DC, with LED |
| | 60-150 V AC/DC, with LED |
| | 100-250 V AC/DC, with LED |
| Note | |

| Type | Qty. | Order No. |
|----------------------|------|-------------------|
| AFS 2.5 CF 2C BK | 50 | 2466530000 |
| AFS 2.5 CF 2C 12V BK | 50 | 2466610000 |
| AFS 2.5 CF 2C 24V BK | 50 | 2466600000 |
| Note | | |

| Type | Qty. | Order No. |
|----------------------|------|-------------------|
| AFS 4 2C BK | 50 | 2429860000 |
| AFS 4 2C 10-36V BK | 50 | 2429870000 |
| AFS 4 2C 30-70V BK | 50 | 2434350000 |
| AFS 4 2C 60-150V BK | 50 | 2434380000 |
| AFS 4 2C 100-250V BK | 50 | 2434390000 |
| Note | | |

Accessories

| Pluggable cross-connection | |
|----------------------------|----------|
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End plate | |
| | Black |
| Test plug | |
| | Black |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End plate | | | |
| AEP 4C 2.5 BK | | 50 | 2486660000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 4N/2 | 32 A | 60 | 1527930000 |
| ZQV 4N/10 | 32 A | 20 | 1528090000 |
| End plate | | | |
| AEP 3C 4 BK | | 20 | 2486640000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | 600 | 2007160000 |

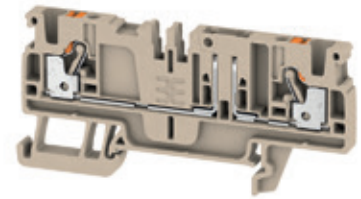
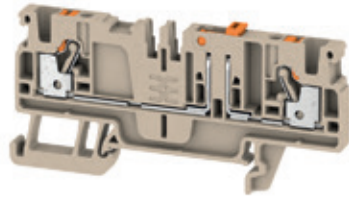
For detailed information on other accessories and application in the online catalogue

ADT 2.5 2C

2.5 mm²


ADT 2.5 2C W/O DTLV

2.5 mm²

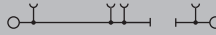


| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|--------------------|
| 5.1 x 77.5 x 37.65 |
| 20 / 2.5 |
| 0.14...2.5 |



| |
|-------------------|
| 5.1 x 77.5 x 36.5 |
| 20 / 2.5 |
| 0.14...2.5 |






Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 400 | 300 | 300 | |
| 20 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |




CE   

| Rated connection | |
|-----------------------|--|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 400 | 300 | 300 | |
| 20 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |

CE   

| Rated connection | |
|-----------------------|--|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

Ordering data

| Version | |
|---------|------------------|
| | dark beige |
| | blue |
| | without isolator |
| Note | |

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| ADT 2.5 2C | 50 | 1989800000 |
| ADT 2.5 2C BL | 50 | 1989810000 |

| Type | Qty. | Order No. |
|---------------------|------|-------------------|
| ADT 2.5 2C W/O DTLV | 50 | 1989930000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| | | | |
| AEP 4C 2.5 | | 50 | 1521530000 |
| AEP 4C 2.5 BL | | 50 | 1521640000 |
| | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| | | | |
| AEP 4C 2.5 | | 50 | 1521530000 |
| AEP 4C 2.5 BL | | 50 | 1521640000 |
| | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data
Machinery
Process
Energy
Transportation
Device Manufacturers
Infrastructure

Technical data

Machinery

Process

Energy

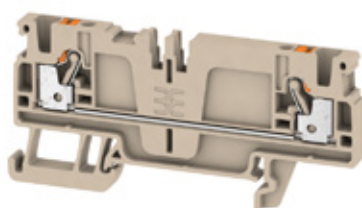
Transportation

Device Manufacturers

Infrastructure

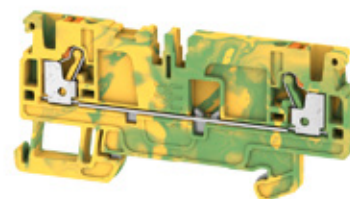
A2C 2.5 /DT/FS

2.5 mm²



A2C 2.5 PE /DT/FS

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|-------------------|--|
| 5.1 x 77.5 x 36.5 | |
| 24 / 2.5 | |
| 0.14...2.5 | |

| | |
|-------------------|--|
| 5.1 x 77.5 x 36.5 | |
| / 2.5 | |
| 0.14...2.5 | |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

| Rated connection | |
|-----------------------|--|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

IEC 60947-7-2

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| | 600 | 600 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| / 3 | | | |
| A3 / V-0 | | | |

CE

| Rated connection | |
|-----------------------|--|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

Ordering data

| Version | |
|---------|------------------|
| | dark beige |
| | blue |
| | without isolator |
| Note | |

| Type | Qty. | Order No. |
|-------------------|------|-------------------|
| A2C 2.5 /DT/FS | 100 | 1989900000 |
| A2C 2.5 /DT/FS BL | 100 | 1989910000 |

| Type | Qty. | Order No. |
|-------------------|------|-------------------|
| A2C 2.5 PE /DT/FS | 50 | 1989890000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End plate | | | |
| AEP 4C 2.5 | | 50 | 1521530000 |
| AEP 4C 2.5 BL | | 50 | 1521640000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| AEP 4C 2.5 | | 50 | 1521530000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Test adapter | | | |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 2.5 MHR | | 50 | 1991960000 |
| ATPG 2.5/3 | | 25 | 2041190000 |
| ATPG 2.5/5 | | 25 | 2041180000 |
| Test plug | | | |
| PS 2.0 MC | | 20 | 0310000000 |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

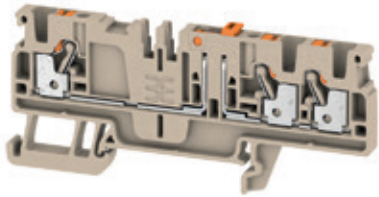
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

ADT 2.5 3C

2.5 mm²



5.1 x 84.5 x 37.65
20 / 2.5
0.14...2.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 400 | 300 | 300 | |
| 20 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| ADT 2.5 3C | 50 | 1989830000 |
| ADT 2.5 3C BL | 50 | 1989840000 |

| Type | current | Qty. | Order No. |
|-------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |

| | | |
|---------------|----|-------------------|
| AEP DT 2.5 3C | 50 | 1989970000 |
| AEB 35 SC/1 | 50 | 1991920000 |
| ZEW 35 | 20 | 9540000000 |

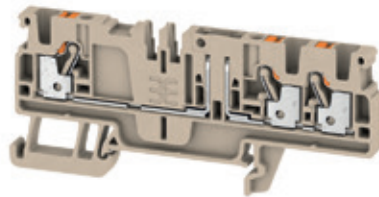
| | | |
|---------------|----|-------------------|
| ATPG 1.5-10 L | 50 | 1991890000 |
| ATPG 2.5 MI-R | 50 | 1991960000 |
| ATPG 2.5/3 | 25 | 2041190000 |
| ATPG 2.5/5 | 25 | 2041180000 |
| PS 2.0 MC | 20 | 0310000000 |

| | | |
|-------------------------|------|-------------------|
| SDIL 0,6x3,5x100 | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | 1854490000 |
| DEK 5/5 MM WS | 800 | 2007110000 |
| WS 8/5 MM WS | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

ADT 2.5 3C W/O DTLV

2.5 mm²



5.1 x 84.5 x 36.5
20 / 2.5
0.14...2.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 400 | 300 | 300 | |
| 20 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|---------------------|------|-------------------|
| ADT 2.5 3C W/O DTLV | 50 | 1989940000 |

| Type | current | Qty. | Order No. |
|-------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |

| | | |
|---------------|----|-------------------|
| AEP DT 2.5 3C | 50 | 1989970000 |
| AEB 35 SC/1 | 50 | 1991920000 |
| ZEW 35 | 20 | 9540000000 |

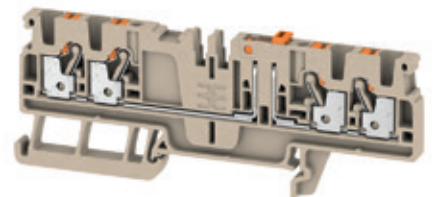
| | | |
|---------------|----|-------------------|
| ATPG 1.5-10 L | 50 | 1991890000 |
| ATPG 2.5 MI-R | 50 | 1991960000 |
| ATPG 2.5/3 | 25 | 2041190000 |
| ATPG 2.5/5 | 25 | 2041180000 |
| PS 2.0 MC | 20 | 0310000000 |

| | | |
|-------------------------|------|-------------------|
| SDIL 0,6x3,5x100 | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | 1854490000 |
| DEK 5/5 MM WS | 800 | 2007110000 |
| WS 8/5 MM WS | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

ADT 2.5 4C

2.5 mm²



5.1 x 96 x 37.65
20 / 2.5
0.14...2.5



IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 400 | 300 | 300 | |
| 20 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| ADT 2.5 4C | 50 | 1989860000 |
| ADT 2.5 4C BL | 50 | 1989870000 |

| Type | current | Qty. | Order No. |
|-------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |

| | | |
|---------------|----|-------------------|
| AEP DT 2.5 4C | 50 | 1989980000 |
| AEB 35 SC/1 | 50 | 1991920000 |
| ZEW 35 | 20 | 9540000000 |

| | | |
|---------------|----|-------------------|
| ATPG 1.5-10 L | 50 | 1991890000 |
| ATPG 2.5 MI-R | 50 | 1991960000 |
| ATPG 2.5/3 | 25 | 2041190000 |
| ATPG 2.5/5 | 25 | 2041180000 |
| PS 2.0 MC | 20 | 0310000000 |

| | | |
|-------------------------|------|-------------------|
| SDIL 0,6x3,5x100 | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | 1854490000 |
| DEK 5/5 MM WS | 800 | 2007110000 |
| WS 8/5 MM WS | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

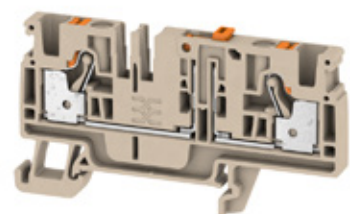
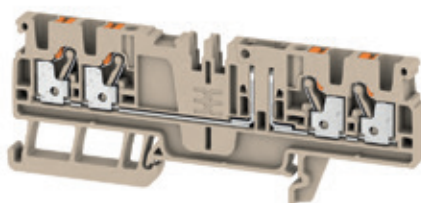
Infrastructure

ADT 2.5 4C W/O DTLV

2.5 mm²

ADT 4 2C

4 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|-------------------|--|
| 5.1 x 96 x 36.5 | |
| 20 / 2.5 | |
| 0.14...2.5 | |

| | |
|-------------------|--|
| 6.1 x 71.9 x 41.7 | |
| 20 / 4 | |
| 0.5...4 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 400 | 300 | 300 | |
| 20 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |

CE

| | | | |
|-----------------------------|--|--|--|
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

IEC/EN 60947-7-1:2009

| IEC | UL | CSA | EN 60079-7 |
|----------|----|-----|------------|
| 400 | | | |
| 20 | | | |
| 4 | | | |
| 4 kV / 3 | | | |
| A4 / V-0 | | | |

| | | | |
|-----------------------------|--|--|--|
| Rated connection | | | |
| 0.5...4 / 0.5...4 | | | |
| 0.5...4 / 0.5...4 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|------------------|
| Version | |
| | dark beige |
| | blue |
| | without isolator |
| Note | |

| Type | Qty. | Order No. |
|---------------------|------|-------------------|
| ADT 2.5 4C W/O DTLV | 50 | 1989950000 |

| Type | Qty. | Order No. |
|-------------|------|-------------------|
| ADT 4 2C | 50 | 2429850000 |
| ADT 4 2C BL | 50 | 2429880000 |

Accessories

| | |
|-----------------------------------|------------|
| Pluggable cross-connection | |
| | 2-pole |
| | 10-pole |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| | stackable |
| | 3-pole |
| | 5-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP DT 2.5 4C | | | |
| | | 50 | 1989980000 |
| AEB 35 SC/1 | | | |
| | | 50 | 1991920000 |
| | | 20 | 9540000000 |
| ATPG 1.5-10 L | | | |
| | | 50 | 1991890000 |
| ATPG 2.5 MHR | | | |
| | | 50 | 1991960000 |
| | | 25 | 2041190000 |
| | | 25 | 2041180000 |
| PS 2.0 MC | | | |
| | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | | |
| | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | | |
| | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | | |
| | | 800 | 2007110000 |
| WS 8/5 MM WS | | | |
| | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | | |
| | | 600 | 2003770000 |

| Type | current | Qty. | Order No. |
|--------------------------------|---------|------|-------------------|
| ZQV 4N/2 | 32 A | 60 | 1527930000 |
| ZQV 4N/10 | 32 A | 20 | 1528090000 |
| AEP 4C 4 | | | |
| | | 20 | 2051900000 |
| AEP 4C 4 BL | | | |
| | | 20 | 2051910000 |
| AEB 35 SC/1 | | | |
| | | 50 | 1991920000 |
| | | 20 | 9540000000 |
| ATPG 1.5-10 L | | | |
| | | 50 | 1991890000 |
| ATPG 4 MHR | | | |
| | | 50 | 1991860000 |
| PS 2.0 MC | | | |
| | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | | |
| | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | | | |
| | | 600 | 2003780000 |
| DEK 5/6 MM WS | | | |
| | | 600 | 2007120000 |
| WS 8/6 MM WS | | | |
| | | 600 | 2007160000 |
| DEK 5/6 PLUS MC NE WS | | | |
| | | 1000 | 1011320000 |

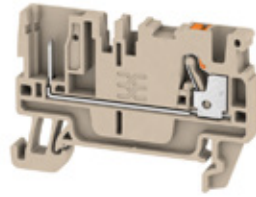
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

APGTB 2.5 FT 2C/1

2.5 mm²



5.1 x 55 x 36.5
24 / 2.5
0.14...2.5



IEC 60947-7-1, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |



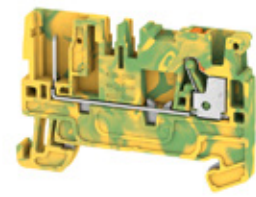
Rated connection

0.5...2.5 / 0.5...2.5
 0.5...2.5 / 0.5...2.5
 10 / 0.6 x 3.5 mm

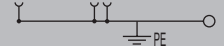
Approval in progress

APGTB 2.5 PE 2C/1

2.5 mm²



5.1 x 55 x 36.5
/ 2.5
0.14...2.5



IEC 60947-7-2, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| / 3 | | | |
| A3 / V-0 | | | |



Rated connection

0.5...2.5 / 0.5...2.5
 0.5...2.5 / 0.5...2.5
 10 / 0.6 x 3.5 mm

Approval in progress

| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |

Note

Ordering data

| Version | |
|---------|--------------|
| | dark beige |
| | blue |
| | green/yellow |
| Note | |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Plug | |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

For detailed information on other accessories and application in the online catalogue

| Type | Qty. | Order No. |
|----------------------|------|------------|
| APGTB 2.5 FT 2C/1 | 100 | 1513970000 |
| APGTB 2.5 FT 2C/1 BL | 100 | 1513990000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2C 2.5 | | 50 | 1514400000 |
| AEP 2C 2.5 BL | | 50 | 1514420000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

| Type | Qty. | Order No. |
|-------------------|------|------------|
| APGTB 2.5 PE 2C/1 | 50 | 1513870000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP 2C 2.5 | | 50 | 1514400000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

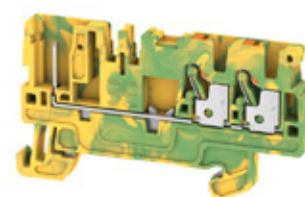
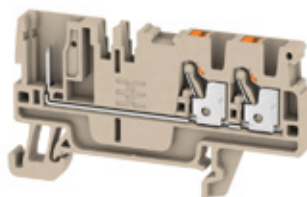
Infrastructure

APGTB 2.5 FT 3C/1

2.5 mm²

APGTB 2.5 PE 3C/1

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|-------------------|--|
| 5.1 x 66.5 x 36.5 | |
| 24 / 2.5 | |
| 0.14...2.5 | |

| | |
|-------------------|--|
| 5.1 x 66.5 x 36.5 | |
| / 2.5 | |
| 0.14...2.5 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

Rated connection

| |
|-----------------------|
| 0.5...2.5 / 0.5...2.5 |
| 0.5...2.5 / 0.5...2.5 |
| 10 / 0.6 x 3.5 mm |

Approval in progress

IEC 60947-7-2, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

Rated connection

| |
|-----------------------|
| 0.5...2.5 / 0.5...2.5 |
| 0.5...2.5 / 0.5...2.5 |
| 10 / 0.6 x 3.5 mm |

Approval in progress

Ordering data

| | |
|----------------|--------------|
| Version | |
| | dark beige |
| | blue |
| | green/yellow |
| Note | |

| Type | Qty. | Order No. |
|----------------------|------|------------|
| APGTB 2.5 FT 3C/1 | 50 | 1514000000 |
| APGTB 2.5 FT 3C/1 BL | 50 | 1514020000 |

| Type | Qty. | Order No. |
|-------------------|------|------------|
| APGTB 2.5 PE 3C/1 | 50 | 1513890000 |

Accessories

| | |
|-----------------------------------|------------|
| Pluggable cross-connection | |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | Blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Plug | |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| End plate | | | |
| AEP 3C 2.5 | | 50 | 1521510000 |
| AEP 3C 2.5 BL | | 50 | 1521520000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Plug | | | |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| Test plug | | | |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M MC NE WS | | 720 | 1792000000 |

| Type | current | Qty. | Order No. |
|-------------------------------|---------|------|------------|
| AEP 3C 2.5 | | 50 | 1521510000 |
| End bracket | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| Plug | | | |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| Test plug | | | |
| Screwdriver | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| Identification systems | | | |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M MC NE WS | | 720 | 1792000000 |

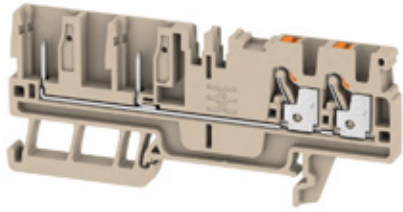
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

APGTB 2.5 FT 4C/2

2.5 mm²



5.1 x 87 x 36.5
24 / 2.5
0.14...2.5



IEC 60947-7-1, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |



Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

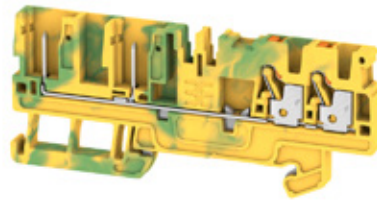
| Type | Qty. | Order No. |
|----------------------|------|------------|
| APGTB 2.5 FT 4C/2 | 50 | 1514030000 |
| APGTB 2.5 FT 4C/2 BL | 50 | 1514040000 |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP PGTB 2.5 4C/2 | | 50 | 1514450000 |
| AEP PGTB 2.5 4C/2 BL | | 50 | 1514470000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M MC NE WS | | 720 | 1792000000 |

All MultiMark variants (MM) = strip markers

APGTB 2.5 PE 4C/2

2.5 mm²



5.1 x 87 x 36.5
/ 2.5
0.14...2.5



IEC 60947-7-2, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |



Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

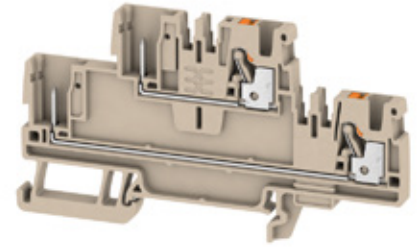
| Type | Qty. | Order No. |
|-------------------|------|------------|
| APGTB 2.5 PE 4C/2 | 50 | 1513920000 |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|------------|
| AEP PGTB 2.5 4C/2 | | 50 | 1514450000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M MC NE WS | | 720 | 1792000000 |

All MultiMark variants (MM) = strip markers

APGTB 2.5 2T 4C/2

2.5 mm²



5.1 x 91 x 50.5
24 / 2.5
0.14...2.5



IEC 60947-7-1, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |



Rated connection

0.5...2.5 / 0.5...2.5
0.5...2.5 / 0.5...2.5
10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|----------------------|------|------------|
| APGTB 2.5 2T 4C/2 | 50 | 1548060000 |
| APGTB 2.5 2T 4C/2 BL | 50 | 1548070000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEP 2T 2.5 BL | | 20 | 1547700000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

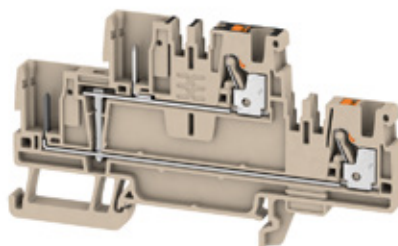
Transportation

Device Manufacturers

Infrastructure

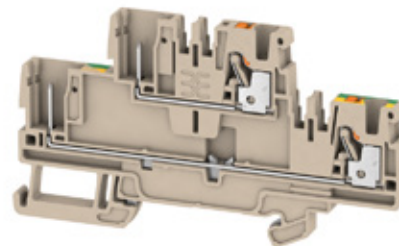
APGTB 2.5 2T VL 4C/2

2.5 mm²



APGTB 2.5 2T FT-PE 4C/2

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|-------------------|--|
| 5.1 x 91 x 50.5 | |
| 24 / 2.5 | |
| 0.14...2.5 | |

| | |
|-------------------|--|
| 5.1 x 91 x 50.5 | |
| 24 / 2.5 | |
| 0.14...2.5 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 60947-7-1, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

Rated connection

| |
|-----------------------|
| 0.5...2.5 / 0.5...2.5 |
| 0.5...2.5 / 0.5...2.5 |
| 10 / 0.6 x 3.5 mm |

Approval in progress

IEC 60947-7-1, IEC 60947-7-2, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 800 | 600 | | |
| 24 | 20 | | |
| 2.5 | AWG 28...12 | | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

Rated connection

| |
|-----------------------|
| 0.5...2.5 / 0.5...2.5 |
| 0.5...2.5 / 0.5...2.5 |
| 10 / 0.6 x 3.5 mm |

Approval in progress

Ordering data

| | |
|----------------|--------------|
| Version | dark beige |
| | blue |
| | green/yellow |
| Note | |

| Type | Qty. | Order No. |
|-------------------------|------|-------------------|
| APGTB 2.5 2T VL 4C/2 | 50 | 1548140000 |
| APGTB 2.5 2T VL 4C/2 BL | 50 | 1548150000 |

| Type | Qty. | Order No. |
|-------------------------|------|-------------------|
| APGTB 2.5 2T FT-PE 4C/2 | 50 | 1548130000 |

Accessories

| | |
|-----------------------------------|------------|
| Pluggable cross-connection | |
| | 2-pole |
| | 10-pole |
| End plate | |
| | dark beige |
| | blue |
| End bracket | |
| | dark beige |
| | dark beige |
| Plug | |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | | |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEP 2T 2.5 BL | | 20 | 1547700000 |
| AEB 35 SC/1 | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | | 1854490000 |
| DEK 5/5 MM WS | 800 | | 2007110000 |
| WS 8/5 MM WS | 800 | | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | | 2003770000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | | |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEP 2T 2.5 BL | | 20 | 1547700000 |
| AEB 35 SC/1 | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| APG 2.5/1 | | 50 | 1513720000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | 1000 | | 1854490000 |
| DEK 5/5 MM WS | 800 | | 2007110000 |
| WS 8/5 MM WS | 800 | | 2007150000 |
| WS 10/5 M PLUS MC NE WS | 600 | | 2003770000 |

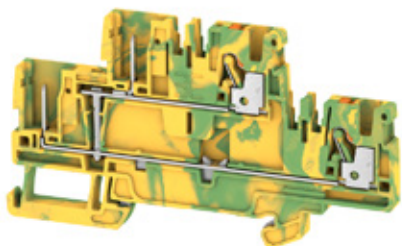
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

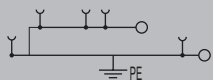
All MultiMark variants (MM) = strip markers

APGTB 2.5 2T PE 4C/2

2.5 mm²



5.1 x 91 x 50.5
/ 2.5
0.14...2.5



IEC 60947-7-2, IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|-----|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| | 8 kV / 3 | | |
| | A3 / V-0 | | |



Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|----------------------|------|------------|
| APGTB 2.5 2T PE 4C/2 | 50 | 1548160000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| AEP 2T 2.5 | | 20 | 1547690000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| APG 2.5/10 | | 20 | 1513770000 |
| APG 2.5 MI | | 50 | 1513880000 |
| APG 2.5 L | | 50 | 1513830000 |
| APG 2.5 R | | 50 | 1513940000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

APG 2.5...

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 5.1 x 16.5 x 42.5 |
| 24 / 2.5 |
| 0.14...2.5 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage | V |
| Max. voltage of clamp support & pluggable system | - |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

IEC 61984

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-------------|------------|
| 800 | 600 | 600 | |
| 24 | 20 | 20 | |
| 2.5 | AWG 28...12 | AWG 28...12 | |
| | | | 8 kV / 3 |
| A3 / V-0 | | | |

® TÜV (R)

| Rated connection | Plug-in connection |
|-----------------------|--------------------|
| 0.5...2.5 / 0.5...2.5 | |
| 0.5...2.5 / 0.5...2.5 | |
| 10 / 0.6 x 3.5 mm | |

Approval in progress

Ordering data

| Version | |
|---------------------|--------------|
| Single plates | |
| | Start plate |
| | Middle plate |
| | End plate |
| Ready pre-assembled | |
| | 3-pin |
| | 4-pin |
| | 5-pin |
| Note | |

| Type | Qty. | Order No. |
|---------------------|------|------------|
| APG 2.5 L | 50 | 1513830000 |
| APG 2.5 L BL | 50 | 1513840000 |
| APG 2.5 L GN | 50 | 1513850000 |
| APG 2.5 MI | 50 | 1513880000 |
| APG 2.5 MI BL | 50 | 1513900000 |
| APG 2.5 MI GN | 50 | 1513930000 |
| APG 2.5 R | 50 | 1513940000 |
| APG 2.5 R BL | 50 | 1513950000 |
| APG 2.5 R GN | 50 | 1513980000 |
| APG 2.5/3-BG-BL-GN | 25 | 1513820000 |
| APG 2.5/4-3BG-GN | 25 | 1513790000 |
| APG 2.5/5-3BG-BL-GN | 25 | 1513780000 |

Further pre-assembled plugs are available at www.weidmueller.com

Accessories

| End plate | dark beige |
|---------------------------------------------------------------------------------------|------------|
| Coding | |
| Cover | |
| Interlock | |
| Strain relief | |
| Identification systems | |
| For detailed information on other accessories and application in the online catalogue | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| AEP PG 2.5 | | 50 | 2035590000 |
| APGCE | | 50 | 1514490000 |
| APGPC 2.5 | | 50 | 1514500000 |
| APGLE 2.5 | | 25 | 2457570000 |
| APGSR 2.5 | | 25 | 2457580000 |
| APGSR 2.5/4 | | 25 | 2457590000 |
| APGSR 2.5/8 | | 25 | 2457600000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |

All MultiMark variants (MM) = strip markers

Technical data

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Cross-connections according to dimensions

ZQV 1.5N



ZQV 2.5N



ZQV 4N



| Technical data | |
|----------------|---|
| current | A |
| Ordering data | |
| 2-pin | |
| 3-pin | |
| 4-pin | |
| 5-pin | |
| 6-pin | |
| 7-pin | |
| 8-pin | |
| 9-pin | |
| 10-pin | |
| 20-pin | |
| 50-pin | |

| 17.5 | | | |
|-------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 1.5N/2 | 60 | 1985410000 | |
| ZQV 1.5N/3 | 60 | 1985480000 | |
| ZQV 1.5N/4 | 60 | 1985490000 | |
| ZQV 1.5N/5 | 20 | 1985500000 | |
| ZQV 1.5N/6 | 20 | 1985510000 | |
| ZQV 1.5N/7 | 20 | 1985520000 | |
| ZQV 1.5N/8 | 20 | 1985540000 | |
| ZQV 1.5N/9 | 20 | 1985560000 | |
| ZQV 1.5N/10 | 20 | 1985580000 | |
| ZQV 1.5N/20 | 20 | 1985600000 | |
| ZQV 1.5N/50 | 5 | 1985620000 | |

| 24 | | | |
|-------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 2.5N/2 | 60 | 1527540000 | |
| ZQV 2.5N/3 | 60 | 1527570000 | |
| ZQV 2.5N/4 | 60 | 1527590000 | |
| ZQV 2.5N/5 | 20 | 1527620000 | |
| ZQV 2.5N/6 | 20 | 1527630000 | |
| ZQV 2.5N/7 | 20 | 1527640000 | |
| ZQV 2.5N/8 | 20 | 1527670000 | |
| ZQV 2.5N/9 | 20 | 1527680000 | |
| ZQV 2.5N/10 | 20 | 1527690000 | |
| ZQV 2.5N/20 | 20 | 1527720000 | |
| ZQV 2.5N/50 | 5 | 1527730000 | |

| 32 | | | |
|-----------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 4N/2 | 60 | 1527930000 | |
| ZQV 4N/3 | 60 | 1527940000 | |
| ZQV 4N/4 | 60 | 1527970000 | |
| ZQV 4N/5 | 60 | 1527980000 | |
| ZQV 4N/6 | 20 | 1527990000 | |
| ZQV 4N/7 | 20 | 1528020000 | |
| ZQV 4N/8 | 20 | 1528030000 | |
| ZQV 4N/9 | 20 | 1528070000 | |
| ZQV 4N/10 | 20 | 1528090000 | |
| ZQV 4N/50 | 5 | 1528130000 | |



| Technical data | |
|----------------|---|
| current | A |
| Ordering data | |
| 2-pin | |
| 3-pin | |
| 4-pin | |
| 5-pin | |
| 6-pin | |
| 7-pin | |
| 8-pin | |
| 9-pin | |
| 10-pin | |
| 20-pin | |
| 50-pin | |

| 17.5 | | | |
|----------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 1.5N/2 BL | 60 | 1985530000 | |
| ZQV 1.5N/3 BL | 60 | 1985550000 | |
| ZQV 1.5N/4 BL | 60 | 1985570000 | |
| ZQV 1.5N/5 BL | 20 | 1985590000 | |
| ZQV 1.5N/6 BL | 20 | 1985610000 | |
| ZQV 1.5N/7 BL | 20 | 1985630000 | |
| ZQV 1.5N/8 BL | 20 | 1985640000 | |
| ZQV 1.5N/9 BL | 20 | 1985660000 | |
| ZQV 1.5N/10 BL | 20 | 1985680000 | |
| ZQV 1.5N/20 BL | 20 | 1985700000 | |
| ZQV 1.5N/50 BL | 5 | 1985720000 | |

| 24 | | | |
|----------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 2.5N/2 BL | 60 | 1527740000 | |
| ZQV 2.5N/3 BL | 60 | 1527770000 | |
| ZQV 2.5N/4 BL | 60 | 1527780000 | |
| ZQV 2.5N/5 BL | 20 | 1527790000 | |
| ZQV 2.5N/6 BL | 20 | 1527820000 | |
| ZQV 2.5N/7 BL | 20 | 1527830000 | |
| ZQV 2.5N/8 BL | 20 | 1527840000 | |
| ZQV 2.5N/9 BL | 20 | 1527870000 | |
| ZQV 2.5N/10 BL | 20 | 1527880000 | |
| ZQV 2.5N/20 BL | 20 | 1527890000 | |
| ZQV 2.5N/50 BL | 5 | 1527920000 | |

| 32 | | | |
|--------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 4N/2 BL | 60 | 1528040000 | |
| ZQV 4N/3 BL | 60 | 1528080000 | |
| ZQV 4N/4 BL | 60 | 1528120000 | |
| ZQV 4N/5 BL | 60 | 1528140000 | |
| ZQV 4N/6 BL | 20 | 1528170000 | |
| ZQV 4N/7 BL | 20 | 1528180000 | |
| ZQV 4N/8 BL | 20 | 1528190000 | |
| ZQV 4N/9 BL | 20 | 1528220000 | |
| ZQV 4N/10 BL | 20 | 1528230000 | |
| ZQV 4N/50 BL | 5 | 1528240000 | |



| Technical data | |
|----------------|---|
| current | A |
| Ordering data | |
| 2-pin | |
| 3-pin | |
| 4-pin | |
| 5-pin | |
| 6-pin | |
| 7-pin | |
| 8-pin | |
| 9-pin | |
| 10-pin | |
| 20-pin | |
| 50-pin | |

| 17.5 | | | |
|----------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 1.5N/2 RD | 60 | 1985650000 | |
| ZQV 1.5N/3 RD | 60 | 1985670000 | |
| ZQV 1.5N/4 RD | 60 | 1985690000 | |
| ZQV 1.5N/5 RD | 20 | 1985710000 | |
| ZQV 1.5N/6 RD | 20 | 1985730000 | |
| ZQV 1.5N/7 RD | 20 | 1985750000 | |
| ZQV 1.5N/8 RD | 20 | 1985770000 | |
| ZQV 1.5N/9 RD | 20 | 1985790000 | |
| ZQV 1.5N/10 RD | 20 | 1985800000 | |
| ZQV 1.5N/20 RD | 20 | 1985810000 | |
| ZQV 1.5N/50 RD | 5 | 1985820000 | |

| 24 | | | |
|----------------|------|------------|--|
| Type | Qty. | Order No. | |
| ZQV 2.5N/2 RD | 60 | 2108470000 | |
| ZQV 2.5N/3 RD | 60 | 2108690000 | |
| ZQV 2.5N/4 RD | 60 | 2108700000 | |
| ZQV 2.5N/5 RD | 20 | 2108710000 | |
| ZQV 2.5N/6 RD | 20 | 2108720000 | |
| ZQV 2.5N/7 RD | 20 | 2108810000 | |
| ZQV 2.5N/8 RD | 20 | 2108870000 | |
| ZQV 2.5N/9 RD | 20 | 2108900000 | |
| ZQV 2.5N/10 RD | 20 | 2108910000 | |
| ZQV 2.5N/20 RD | 20 | 2108920000 | |
| ZQV 2.5N/50 RD | 5 | 2109000000 | |

| Type | Qty. | Order No. | |
|--------------|------|------------|--|
| ZQV 4N/2 RD | 60 | 2460450000 | |
| ZQV 4N/3 RD | 60 | 2460810000 | |
| ZQV 4N/4 RD | 60 | 2460800000 | |
| ZQV 4N/5 RD | 60 | 2460790000 | |
| ZQV 4N/6 RD | 20 | 2460780000 | |
| ZQV 4N/7 RD | 20 | 2460770000 | |
| ZQV 4N/8 RD | 20 | 2460760000 | |
| ZQV 4N/9 RD | 20 | 2460750000 | |
| ZQV 4N/10 RD | 20 | 2460740000 | |

ZQV 6N



| 41 | | |
|----------|------|------------|
| Type | Qty. | Order No. |
| ZQV 6N/2 | 60 | 1985740000 |
| ZQV 6N/3 | 60 | 1985760000 |
| ZQV 6N/4 | 60 | 1985780000 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



| 41 | | |
|-------------|------|------------|
| Type | Qty. | Order No. |
| ZQV 6N/2 BL | 60 | 1985830000 |
| ZQV 6N/3 BL | 60 | 1985840000 |
| ZQV 6N/4 BL | 60 | 1985850000 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

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Test adapter

The test adapter ATPG can be used as single plate as well as a test adapter strip for measurements. Conductors in the cross-section of 0.5 mm² up to 1.5 mm² can be connected.

By easy snapping of the test adapter into the terminal, a safe contact is realized.

| Dimensions | |
|----------------------------------|-----------------|
| Width / Length / Height | mm |
| Stripping length | - |
| Rated data | |
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Ordering data | |
| | 1-pin |
| | 3-pin |
| | 5-pin |

ATPG 1.5-10

Start plate



| 3.5 / 18.5 | | |
|-----------------------|------|------------|
| 0.2 | | |
| 1.5 | | |
| 0.5...1.5 | | |
| 0.5...1.5 / 0.5...1.5 | | |
| Type | Qty. | Order No. |
| ATPG 1.5-10 L | 50 | 1991890000 |

ATPG 1.5 MI-R

Middle plate or end plate



| 3.5 / 18.5 | | |
|-----------------------|------|------------|
| 0.2 | | |
| 1.5 | | |
| 0.5...1.5 | | |
| 0.5...1.5 / 0.5...1.5 | | |
| Type | Qty. | Order No. |
| ATPG 1.5 MI-R | 50 | 1991880000 |

ATPG 2.5 MI-R

Middle plate or end plate



| 5.1 / 18.5 | | |
|-----------------------|------|------------|
| 0.2 | | |
| 1.5 | | |
| 0.5...1.5 | | |
| 0.5...1.5 / 0.5...1.5 | | |
| Type | Qty. | Order No. |
| ATPG 2.5 MI-R | 50 | 1991960000 |
| ATPG 2.5/3 | 25 | 2041190000 |
| ATPG 2.5/5 | 25 | 2041180000 |

Test adapter

The test adapter ATPG can be used as single plate as well as a test adapter strip for measurements. Conductors in the cross-section of 0.5 mm² up to 1.5 mm² can be connected.

By easy snapping of the test adapter into the terminal, a safe contact is realized.

| Dimensions | |
|----------------------------------|-----------------|
| Width / Length / Height | mm |
| Stripping length | - |
| Rated data | |
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Ordering data | |
| | 1-pin |
| | 3-pin |
| | 5-pin |

ATPG 4 MI-R-10

Middle plate or end plate



| 6.1 / 18.5 | | |
|-----------------------|------|------------|
| 0.2 | | |
| 1.5 | | |
| 0.5...1.5 | | |
| 0.5...1.5 / 0.5...1.5 | | |
| Type | Qty. | Order No. |
| ATPG 4 MI-R | 50 | 1991860000 |

ATPG 6 MI-R

Middle plate or end plate



| 7.9 / 18.5 | | |
|-----------------------|------|------------|
| 0.2 | | |
| 1.5 | | |
| 0.5...1.5 | | |
| 0.5...1.5 / 0.5...1.5 | | |
| Type | Qty. | Order No. |
| ATPG 6 MI-R | 50 | 1991930000 |

ATPG 10 MI-R

Middle plate or end plate



| 9.9 / 18.5 | | |
|-----------------------|------|------------|
| 0.2 | | |
| 1.5 | | |
| 0.5...1.5 | | |
| 0.5...1.5 / 0.5...1.5 | | |
| Type | Qty. | Order No. |
| ATPG 10 MI-R | 50 | 1991870000 |



Infrastructure



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Transportation



Energy



Process



Machinery

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WPD 130



WPD 230



| | |
|---------------------------|--------------|
| Width/Depth/Height | 20 / 45 / 70 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 120 A |
| UL 94 flammability rating | V-0 |

| | |
|---------------------------|----------------|
| Width/Depth/Height | 35,6 / 45 / 70 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 120 A |
| UL 94 flammability rating | V-0 |

Technical data

| Inputs | |
|-----------------------|-----------------------------------------|
| Number of connections | 2 |
| Solid | 6...10mm ² |
| Stranded | 10...50mm ² |
| Flexible with ferrule | 4...35mm ² |
| Ribbon cable | |
| Torque | 10Nm |
| Clamping screw | M 10 |
| Stripping length | 16mm |
| Outputs | |
| Number of connections | 2 |
| Solid | 6...10mm ² |
| Stranded | 10...50mm ² |
| Flexible with ferrule | 4...35mm ² |
| Torque | 10Nm |
| Clamping screw | M 10 |
| Stripping length | 16mm |
| Poles | 1 |
| Note | Rated current with Cu conductors: 150 A |

IEC 60947-7-1, UL 1059, CSA

| top | mid./left | mid./mid. | mid./right | bottom |
|-------|-----------|-----------------------------------------|------------|--------|
| | | 1 | | |
| | | 6...10mm ² | | |
| | | 10...50mm ² | | |
| | | 4...35mm ² | | |
| | | 10Nm | | |
| | | M 10 | | |
| | | 16mm | | |
| top | mid./left | mid./mid. | mid./right | bottom |
| | | 1 | | |
| | | 6...10mm ² | | |
| | | 10...50mm ² | | |
| | | 4...35mm ² | | |
| | | 10Nm | | |
| | | M 10 | | |
| | | 16mm | | |
| Poles | | 1 | | |
| Note | | Rated current with Cu conductors: 150 A | | |

| | |
|---------------------------|----------------|
| Width/Depth/Height | 35,6 / 45 / 70 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 120 A |
| UL 94 flammability rating | V-0 |

IEC 60947-7-1, UL 1059, CSA

| top | mid./left | mid./mid. | mid./right | bottom |
|-------|-----------|-----------------------------------------|------------|--------|
| | | 2 | | |
| | | 6...10mm ² | | |
| | | 10...50mm ² | | |
| | | 4...35mm ² | | |
| | | 10Nm | | |
| | | M 10 | | |
| | | 16mm | | |
| top | mid./left | mid./mid. | mid./right | bottom |
| | | 2 | | |
| | | 6...10mm ² | | |
| | | 10...50mm ² | | |
| | | 4...35mm ² | | |
| | | 10Nm | | |
| | | M 10 | | |
| | | 16mm | | |
| Poles | | 2 | | |
| Note | | Rated current with Cu conductors: 150 A | | |

Ordering data

| Version | Type | Qty. | Order No. |
|---------|----------------------|------|------------|
| grey | WPD 130 1X50/1X50 GY | 9 | 2502530000 |
| blue | WPD 130 1X50/1X50 BL | 9 | 2502540000 |
| brown | WPD 130 1X50/1X50 BN | 9 | 2502560000 |
| green | WPD 130 1X50/1X50 GN | 9 | 2502550000 |
| black | WPD 130 1X50/1X50 BK | 9 | 2502570000 |
| Note | | | |

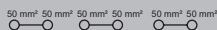
| Type | Qty. | Order No. |
|----------------------|------|------------|
| WPD 130 1X50/1X50 GY | 9 | 2502530000 |
| WPD 130 1X50/1X50 BL | 9 | 2502540000 |
| WPD 130 1X50/1X50 BN | 9 | 2502560000 |
| WPD 130 1X50/1X50 GN | 9 | 2502550000 |
| WPD 130 1X50/1X50 BK | 9 | 2502570000 |

| Type | Qty. | Order No. |
|----------------------|------|------------|
| WPD 230 2X50/2X50 GY | 5 | 2502580000 |
| WPD 230 2X50/2X50 BL | 5 | 2502590000 |
| WPD 230 2X50/2X50 BN | 5 | 2502610000 |
| WPD 230 2X50/2X50 GN | 5 | 2502600000 |
| WPD 230 2X50/2X50 BK | 5 | 2502950000 |

WPD 330



56.6 / 45 / 70
 1000 V AC
 1000 V DC
 120 A
 V-0



IEC 60947-7-1, UL 1059, CSA

| top | mid./left | mid./mid. | mid./right | bottom |
|-----------------------------------------|-----------|------------------------|------------|--------|
| | | 3 | | |
| | | 6...10mm ² | | |
| | | 10...50mm ² | | |
| | | 4...35mm ² | | |
| | | 10Nm | | |
| | | M 10 | | |
| | | 16mm | | |
| top | mid./left | mid./mid. | mid./right | bottom |
| | | 2 | | |
| | | 6...10mm ² | | |
| | | 10...50mm ² | | |
| | | 4...35mm ² | | |
| | | 10Nm | | |
| | | M 10 | | |
| | | 16mm | | |
| | | 3 | | |
| Rated current with Cu conductors: 150 A | | | | |

| Type | Qty. | Order No. |
|----------------------------------|------|------------|
| WPD 330 3X50/3X50 3XGY | 3 | 2502620000 |
| WPD 330 3X50/3X50 1XBN/1XBK/1XGY | 2 | 2502650000 |
| WPD 330 1XGY/1XBL/1XGN | 3 | 2502640000 |

Technical data

Machinery

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WPD 131



WPD 231



| | |
|---------------------------|----------------|
| Width/Depth/Height | 25.5 / 57 / 93 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 155 A |
| UL 94 flammability rating | V-0 |

| | |
|---------------------------|--------------|
| Width/Depth/Height | 47 / 57 / 93 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 155 A |
| UL 94 flammability rating | V-0 |

Technical data

| | |
|-----------------------|--|
| Inputs | |
| Number of connections | |
| Solid | |
| Stranded | |
| Flexible with ferrule | |
| Ribbon cable | |
| Torque | |
| Clamping screw | |
| Stripping length | |
| Outputs | |
| Number of connections | |
| Solid | |
| Stranded | |
| Flexible with ferrule | |
| Torque | |
| Clamping screw | |
| Stripping length | |
| Poles | |
| Note | |

IEC 60947-7-1, UL 1059, CSA

| | top | mid./left | mid./mid. | mid./right | bottom |
|-----------------------------------------|-------------------------|-----------|------------------------|------------|--------|
| Number of connections | | | 1 | | |
| Solid | | | 16...16mm ² | | |
| Stranded | | | 16...95mm ² | | |
| Flexible with ferrule | | | 10...70mm ² | | |
| Torque | | | 19Nm | | |
| Clamping screw | | | M 14 | | |
| Stripping length | | | 26mm | | |
| Outputs | | | | | |
| Number of connections | 1 | | 1 | | |
| Solid | 1.5...10mm ² | | 16...16mm ² | | |
| Stranded | 1.5...10mm ² | | 16...95mm ² | | |
| Flexible with ferrule | 1.5...6mm ² | | 10...70mm ² | | |
| Torque | 1.2Nm | | 19Nm | | |
| Clamping screw | M 4 | | M 14 | | |
| Stripping length | 10mm | | 26mm | | |
| Poles | | | | | |
| 1 | | | | | |
| Note | | | | | |
| Rated current with Cu conductors: 232 A | | | | | |

| | |
|---------------------------|--------------|
| Width/Depth/Height | 47 / 57 / 93 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 155 A |
| UL 94 flammability rating | V-0 |

IEC 60947-7-1, UL 1059, CSA

| | top | mid./left | mid./mid. | mid./right | bottom |
|-----------------------------------------|-------------------------|-----------|------------------------|------------|--------|
| Number of connections | | | 2 | | |
| Solid | | | 16...16mm ² | | |
| Stranded | | | 16...95mm ² | | |
| Flexible with ferrule | | | 10...70mm ² | | |
| Torque | | | 19Nm | | |
| Clamping screw | | | M 14 | | |
| Stripping length | | | 26mm | | |
| Outputs | | | | | |
| Number of connections | 1 | | 1 | | |
| Solid | 1.5...10mm ² | | 16...16mm ² | | |
| Stranded | 1.5...10mm ² | | 16...95mm ² | | |
| Flexible with ferrule | 1.5...6mm ² | | 10...70mm ² | | |
| Torque | 1.2Nm | | 19Nm | | |
| Clamping screw | M 4 | | M 14 | | |
| Stripping length | 10mm | | 26mm | | |
| Poles | | | | | |
| 2 | | | | | |
| Note | | | | | |
| Rated current with Cu conductors: 232 A | | | | | |

Ordering data

| Version | |
|-------------|--|
| grey | |
| blue | |
| brown | |
| green | |
| black | |
| Note | |

| Type | Qty. | Order No. |
|----------------------|------|------------|
| WPD 131 1X95/1X95 GY | 2 | 2503090000 |
| WPD 131 1X95/1X95 BL | 2 | 2502660000 |
| WPD 131 1X95/1X95 BN | 2 | 2502680000 |
| WPD 131 1X95/1X95 GN | 2 | 2502670000 |
| WPD 131 1X95/1X95 BK | 1 | 2502690000 |

| Type | Qty. | Order No. |
|----------------------|------|------------|
| WPD 231 2X95/2X95 GY | 1 | 2502700000 |
| WPD 231 2X95/2X95 BL | 1 | 2502710000 |
| WPD 231 2X95/2X95 BN | 1 | 2502730000 |
| WPD 231 2X95/2X95 GN | 1 | 2502720000 |
| WPD 231 2X95/2X95 BK | 1 | 2502740000 |

WPD 132



WPD 232

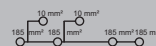


| |
|---------------------------|
| Width/Depth/Height |
| Rated AC voltage |
| Rated DC voltage |
| Rated current |
| UL 94 flammability rating |

| |
|-------------------|
| 37.5 / 73.5 / 105 |
| 1000 V AC |
| 1000 V DC |
| 250 A |
| V-0 |



| |
|-------------------|
| 67.6 / 73.5 / 105 |
| 1000 V AC |
| 1000 V DC |
| 250 A |
| V-0 |



Technical data

| | |
|-----------------------|--|
| Inputs | |
| Number of connections | |
| Solid | |
| Stranded | |
| Flexible with ferrule | |
| Ribbon cable | |
| Torque | |
| Clamping screw | |
| Stripping length | |
| Outputs | |
| Number of connections | |
| Solid | |
| Stranded | |
| Flexible with ferrule | |
| Torque | |
| Clamping screw | |
| Stripping length | |
| Poles | |
| Note | |

IEC 60947-7-1, UL 1059, CSA

| | top | mid./left | mid./mid. | mid./right | bottom | |
|-----------------------|-----|-----------------------------------------|------------------|------------------|-------------------|---------------|
| Number of connections | | | 1 | | | |
| Solid | | | 95...185mm² | | | |
| Stranded | | | 95...185mm² | | | |
| Flexible with ferrule | | | 70...150mm² | | | |
| Torque | | | 25Nm | | | |
| Clamping screw | | | M 18 | | | |
| Stripping length | | | 29mm | | | |
| Outputs | | top | mid./left | mid./mid. | mid./right | bottom |
| Number of connections | | 1 | | 1 | | |
| Solid | | 1.5...10mm² | | 95...185mm² | | |
| Stranded | | 1.5...10mm² | | 95...185mm² | | |
| Flexible with ferrule | | 1.5...6mm² | | 70...150mm² | | |
| Torque | | 1.2Nm | | 25Nm | | |
| Clamping screw | | M 4 | | M 18 | | |
| Stripping length | | 10mm | | 29mm | | |
| Poles | | 1 | | | | |
| Note | | Rated current with Cu conductors: 353 A | | | | |

Ordering data

| | |
|----------------|--|
| Version | |
| grey | |
| blue | |
| brown | |
| green | |
| black | |
| Note | |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| WPD 132 1X185/1X185 GY | 1 | 2502750000 |
| WPD 132 1X185/1X185 BL | 1 | 2502760000 |
| WPD 132 1X185/1X185 BN | 1 | 2502780000 |
| WPD 132 1X185/1X185 GN | 1 | 2502770000 |
| WPD 132 1X185/1X185 BK | 1 | 2502790000 |

IEC 60947-7-1, UL 1059, CSA

| | top | mid./left | mid./mid. | mid./right | bottom | |
|-----------------------|-----|-----------------------------------------|------------------|------------------|-------------------|---------------|
| Number of connections | | | 2 | | | |
| Solid | | | 95...185mm² | | | |
| Stranded | | | 95...185mm² | | | |
| Flexible with ferrule | | | 70...150mm² | | | |
| Torque | | | 25Nm | | | |
| Clamping screw | | | M 18 | | | |
| Stripping length | | | 29mm | | | |
| Outputs | | top | mid./left | mid./mid. | mid./right | bottom |
| Number of connections | | 2 | | 2 | | |
| Solid | | 1.5...10mm² | | 95...185mm² | | |
| Stranded | | 1.5...10mm² | | 95...185mm² | | |
| Flexible with ferrule | | 1.5...6mm² | | 70...150mm² | | |
| Torque | | 1.2Nm | | 25Nm | | |
| Clamping screw | | M 4 | | M 18 | | |
| Stripping length | | 10mm | | 29mm | | |
| Poles | | 2 | | | | |
| Note | | Rated current with Cu conductors: 353 A | | | | |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| WPD 232 2X185/2X185 GY | 1 | 2502800000 |
| WPD 232 2X185/2X185 BL | 1 | 2502810000 |
| WPD 232 2X185/2X185 BN | 1 | 2502830000 |
| WPD 232 2X185/2X185 GN | 1 | 2502820000 |
| WPD 232 2X185/2X185 BK | 1 | 2502840000 |



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

WPD 133

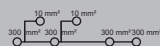


WPD 233



| | |
|---------------------------|-----------------|
| Width/Depth/Height | 45 / 83.5 / 118 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 340 A |
| UL 94 flammability rating | V-0 |

| | |
|---------------------------|-------------------|
| Width/Depth/Height | 82.6 / 83.5 / 118 |
| Rated AC voltage | 1000 V AC |
| Rated DC voltage | 1000 V DC |
| Rated current | 340 A |
| UL 94 flammability rating | V-0 |



Technical data

| Inputs | |
|-----------------------|--|
| Number of connections | |
| Solid | |
| Stranded | |
| Flexible with ferrule | |
| Ribbon cable | |
| Torque | |
| Clamping screw | |
| Stripping length | |
| Outputs | |
| Number of connections | |
| Solid | |
| Stranded | |
| Flexible with ferrule | |
| Torque | |
| Clamping screw | |
| Stripping length | |
| Poles | |
| Note | |

IEC 60947-7-1, UL 1059, CSA

| | top | mid./left | mid./mid. | mid./right | bottom |
|-----------------------|-----------------------------------------|-----------|--------------|------------|--------|
| Number of connections | | | 1 | | |
| Solid | | | 150...300mm² | | |
| Stranded | | | 150...300mm² | | |
| Flexible with ferrule | | | 120...240mm² | | |
| Torque | | | 45Nm | | |
| Clamping screw | | | M 24 | | |
| Stripping length | | | 34mm | | |
| | top | mid./left | mid./mid. | mid./right | bottom |
| Number of connections | 1 | | 1 | | |
| Solid | 1.5...10mm² | | 150...300mm² | | |
| Stranded | 1.5...10mm² | | 150...300mm² | | |
| Flexible with ferrule | 1.5...6mm² | | 120...240mm² | | |
| Torque | 1.2Nm | | 45Nm | | |
| Clamping screw | M 4 | | M 24 | | |
| Stripping length | 10mm | | 34mm | | |
| Poles | 1 | | | | |
| Note | Rated current with Cu conductors: 520 A | | | | |

IEC 60947-7-1, UL 1059, CSA

| | top | mid./left | mid./mid. | mid./right | bottom |
|-----------------------|-----------------------------------------|-----------|--------------|------------|--------|
| Number of connections | | | 2 | | |
| Solid | | | 150...300mm² | | |
| Stranded | | | 150...300mm² | | |
| Flexible with ferrule | | | 120...240mm² | | |
| Torque | | | 45Nm | | |
| Clamping screw | | | M 24 | | |
| Stripping length | | | 34mm | | |
| | top | mid./left | mid./mid. | mid./right | bottom |
| Number of connections | 2 | | 2 | | |
| Solid | 1.5...10mm² | | 150...300mm² | | |
| Stranded | 1.5...10mm² | | 150...300mm² | | |
| Flexible with ferrule | 1.5...6mm² | | 120...240mm² | | |
| Torque | 1.2Nm | | 45Nm | | |
| Clamping screw | M 4 | | M 24 | | |
| Stripping length | 10mm | | 34mm | | |
| Poles | 2 | | | | |
| Note | Rated current with Cu conductors: 520 A | | | | |

Ordering data

| Version | |
|---------|--|
| grey | |
| blue | |
| brown | |
| green | |
| black | |
| Note | |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| WPD 133 1X300/1X300 GY | 1 | 2502850000 |
| WPD 133 1X300/1X300 BL | 1 | 2502860000 |
| WPD 133 1X300/1X300 BN | 1 | 2502880000 |
| WPD 133 1X300/1X300 GN | 1 | 2502870000 |
| WPD 133 1X300/1X300 BK | 1 | 2502890000 |
| Note | | |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| WPD 233 2X300/2X300 GY | 1 | 2502900000 |
| WPD 233 2X300/2X300 BL | 1 | 2502910000 |
| WPD 233 2X300/2X300 BN | 1 | 2502930000 |
| WPD 233 2X300/2X300 GN | 1 | 2502920000 |
| WPD 233 2X300/2X300 BK | 1 | 2502940000 |
| Note | | |



Infrastructure



**Device
Manufacturers**



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AMC 2.5

2.5 mm²



AMC 2.5 800 V

2.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-------------------|
| 5.1 x 107 x 88.5 |
| 21 / 2.5 |
| 0.14...2.5 |

| |
|-------------------|
| 6.1 x 107 x 88.5 |
| 21 / 2.5 |
| 0.14...2.5 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

| DIN EN 60947-7-1, DIN EN 60947-7-2 | | | |
|------------------------------------|----------|-----|------------|
| IEC | UL | CSA | EN 60079-7 |
| 690 | | | |
| 21 | | | |
| 2.5 | | | |
| | 8 kV / 3 | | |
| | A3 / V-0 | | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

| DIN EN 60947-7-1, DIN EN 60947-7-2 | | | |
|------------------------------------|----------|-----|------------|
| IEC | UL | CSA | EN 60079-7 |
| 800 | | | |
| 21 | | | |
| 2.5 | | | |
| | 8 kV / 3 | | |
| | A3 / V-0 | | |
| Rated connection | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 0.5...2.5 / 0.5...2.5 | | | |
| 10 / 0.6 x 3.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

Ordering data

| Version | dark beige |
|---------|------------|
| Note | |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMC 2.5 | 50 | 2434340000 |

| Type | Qty. | Order No. |
|--------------|------|------------|
| AMC 2.5 800V | 50 | 2434370000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|------------|
| | 2-pole |
| | 10-pole |
| Vertical jumpers | |
| | 1-pole |
| End plate | |
| | dark beige |
| End bracket | |
| | dark beige |
| | dark beige |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 | 24 A | 60 | 1527540000 |
| ZQV 2.5N/10 | 24 A | 20 | 1527690000 |
| ZVQ 2.5/1.5 | 23 A | 50 | 1720700000 |
| AEP MC 2.5 | | 25 | 2433820000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZVQ 2.5/1.5 | 23 A | 50 | 1720700000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| SNAPMARK I | | 50 | 1805880000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

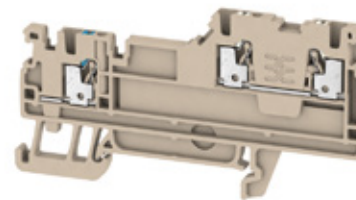
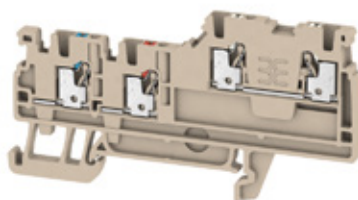
AIO - sensor-actuator terminal blocks

AI021 1.5 SI

1.5 mm²

AI021 1.5 SO

1.5 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|-------------------|--|
| 3.5 x 80 x 42 | |
| 13.5 / 1.5 | |
| 0.14...1.5 | |

| | |
|-------------------|--|
| 3.5 x 80 x 42 | |
| 13.5 / 1.5 | |
| 0.14...1.5 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 250 | 150 | | |
| 13.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 4 kV / 3 | | | |
| A1 / V-0 | | | |

CE

| Rated connection | |
|-----------------------|--|
| 0.5...1.5 / 0.5...1.5 | |
| 0.5...1.5 / 0.5...1.5 | |
| 8 / 0.4 x 2.0 mm | |

Approval in progress

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 250 | 150 | | |
| 13.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 4 kV / 3 | | | |
| A1 / V-0 | | | |

CE

| Rated connection | |
|-----------------------|--|
| 0.5...1.5 / 0.5...1.5 | |
| 0.5...1.5 / 0.5...1.5 | |
| 8 / 0.4 x 2.0 mm | |

Approval in progress

Ordering data

| Version |
|--------------|
| AI021 1.5 SI |
| Note |

| Type | Qty. | Order No. |
|--------------|------|-------------------|
| AI021 1.5 SI | 100 | 1992260000 |
| Note | | |

| Type | Qty. | Order No. |
|--------------|------|-------------------|
| AI021 1.5 SO | 100 | 1992240000 |
| Note | | |

Accessories

| Pluggable cross-connection | |
|-------------------------------|------------------|
| | 2-pole / red |
| | 10-pole / red |
| | 2-pole / blue |
| | 10-pole / blue |
| End plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole stackable |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP IO21 | | 50 | 1993580000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MHR | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP IO21 | | 50 | 1993580000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MHR | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

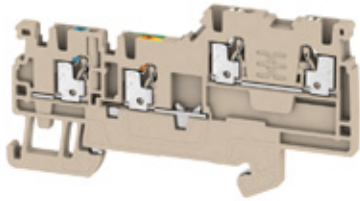
Transportation

Device Manufacturers

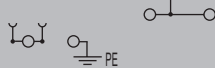
Infrastructure

AI021 1.5 SO-PE

1.5 mm²



3.5 x 80 x 42
13.5 / 1.5
0.14...1.5



In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 250 | 150 | | |
| 13.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 4 kV / 3 | | | |
| A1 / V-0 | | | |



Rated connection

0.5...1.5 / 0.5...1.5
 0.5...1.5 / 0.5...1.5
 8 / 0.4 x 2.0 mm

Approval in progress

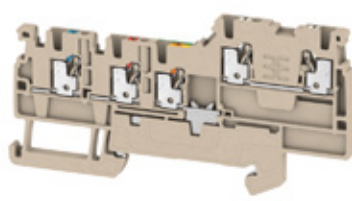
| Type | Qty. | Order No. |
|-----------------|------|-------------------|
| AI021 1.5 SO-PE | 100 | 1992250000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP IO21 | | 50 | 1993580000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |

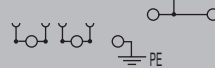
All MultiMark variants (MM) = strip markers

AI022 1.5 SI-PE

1.5 mm²



3.5 x 89 x 45
13.5 / 1.5
0.14...1.5



In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 250 | 150 | | |
| 13.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 4 kV / 3 | | | |
| A1 / V-0 | | | |



Rated connection

0.5...1.5 / 0.5...1.5
 0.5...1.5 / 0.5...1.5
 8 / 0.4 x 2.0 mm

Approval in progress

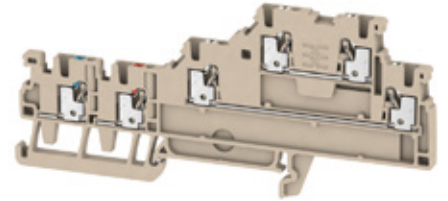
| Type | Qty. | Order No. |
|-----------------|------|-------------------|
| AI022 1.5 SI-PE | 100 | 1992230000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP IO22 | | 50 | 1993590000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |

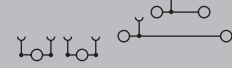
All MultiMark variants (MM) = strip markers

AI023 1.5 2SI

1.5 mm²



3.5 x 110 x 49.5
13.5 / 1.5
0.14...1.5



In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 250 | 150 | | |
| 13.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 4 kV / 3 | | | |
| A1 / V-0 | | | |



Rated connection

0.5...1.5 / 0.5...1.5
 0.5...1.5 / 0.5...1.5
 8 / 0.4 x 2.0 mm

Approval in progress

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| AI023 1.5 2SI | 50 | 1992220000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|-------------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP IO23 | | 50 | 1993600000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | 20 | 9540000000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| ATPG 1.5 MI-R | | 50 | 1991880000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDS 0.4X2.0X60 | | 1 | 9037160000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |

All MultiMark variants (MM) = strip markers

AAP - potential distribution terminal blocks

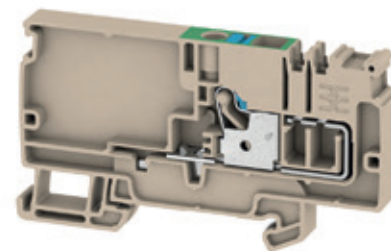
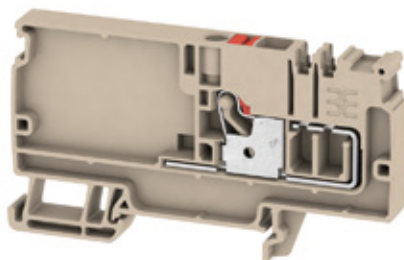
Potential distribution with separate fusing

AAP11 6 LO

6 mm²

AAP11 6 FE

6 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-----------------|
| 8.1 x 85.5 x 48 |
| 41 / 6 |
| 0.5...6 |

| |
|-----------------|
| 8.1 x 85.5 x 48 |
| / 6 |
| 0.5...6 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|------------|-----|------------|
| 500 | 300 | | |
| 41 | 36 | | |
| 6 | AWG 22...8 | | |
| 6 kV / 3 | | | |
| A5 / V-0 | | | |

CE

| Rated connection | |
|-------------------|--|
| 0.5...6 / 0.5...6 | |
| 0.5...6 / 0.5...6 | |
| 12 / 1.0 x 5.5 mm | |

Approval in progress

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|------------|-----|------------|
| 500 | 300 | | |
| 6 | AWG 22...8 | | |
| 6 kV / 3 | | | |
| A5 / V-0 | | | |

CE

| Rated connection | |
|-------------------|--|
| 0.5...6 / 0.5...6 | |
| 0.5...6 / 0.5...6 | |
| 12 / 1.0 x 5.5 mm | |

Approval in progress

Ordering data

| Version | |
|---------|------------------------------------|
| | beige Wemid / red pusher |
| | beige Wemid / blue pusher |
| | beige Wemid / orange pusher |
| | beige Wemid / red and blue pushers |
| Note | |

| Type | Qty. | Order No. |
|---------------|------|------------|
| AAP11 6 LO RD | 20 | 1989780000 |
| AAP11 6 LO BL | 20 | 1988130000 |
| AAP11 6 LO OR | 20 | 2503650000 |

| Type | Qty. | Order No. |
|------------|------|------------|
| AAP11 6 FE | 20 | 1988140000 |

FE = functional earth, contact to DIN rail.

Accessories

| Pluggable cross-connection | |
|-----------------------------|---------------|
| | 2-pole/ red |
| | 10-pole/ red |
| | 2-pole/ blue |
| | 10-pole/ blue |
| End plate / Partition plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP AP11 | | 20 | 1988320000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|------------|
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP AP11 | | 20 | 1988320000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

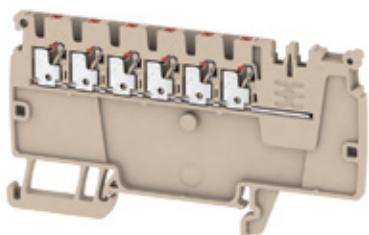
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

AAP11 1.5 LI

1.5 mm²



3.5 x 85.5 x 48
17.5 / 1.5
0.14...1.5



IEC/EN 60947-7-1:2009

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 500 | 300 | | |
| 17.5 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 6 kV / 3 | | | |
| A1 / V-0 | | | |

CE

Rated connection

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

| Type | Qty. | Order No. |
|-----------------|------|------------|
| AAP11 1.5 LI RD | 50 | 1988160000 |
| AAP11 1.5 LI BL | 50 | 1988170000 |
| AAP11 1.5 LI OR | 50 | 2503910000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP AP11 | | 20 | 1988320000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| SDIS 0.4X2.0X60 | | 1 | 9205690000 |
| WS 10/3.5 PLUS MC NE WS | 960 | | 2003760000 |
| DEK 5/3.5 PLUS MC NE WS | 1600 | | 2003750000 |
| DEK 5/3.5 MM WS | 1000 | | 2007100000 |
| WS 8/3.5 MM WS | 1000 | | 2007140000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



Infrastructure



AAP - potential distribution terminal blocks

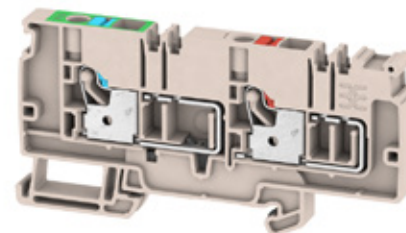
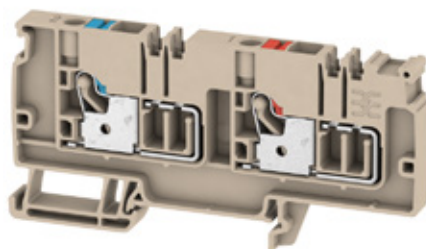
Potential distribution with separate fusing

AAP13 6 LO-LO

6 mm²

AAP13 6 FE-LO

6 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|----------------|--|
| 8.1 x 96 x 48 | |
| 41 / 6 | |
| 0.5...6 | |

| | |
|----------------|--|
| 8.1 x 96 x 48 | |
| 41 / 6 | |
| 0.5...6 | |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------------------|------------|-----|------------|
| 250 | 150 | | |
| 41 | 36 | | |
| 6 | AWG 22...8 | | |
| 4 kV / 3 | | | |
| A5 / V-0 | | | |
| CE | | | |
| Rated connection | | | |
| 0.5...6 / 0.5...6 | | | |
| 0.5...6 / 0.5...6 | | | |
| 12 / 1.0 x 5.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------------------|------------|-----|------------|
| 250 | 150 | | |
| 41 | 36 | | |
| 6 | AWG 22...8 | | |
| 4 kV / 3 | | | |
| A5 / V-0 | | | |
| CE | | | |
| Rated connection | | | |
| 0.5...6 / 0.5...6 | | | |
| 0.5...6 / 0.5...6 | | | |
| 12 / 1.0 x 5.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

Ordering data

| Version | |
|---------|------------------------------------|
| | beige Wemid / red pusher |
| | beige Wemid / blue pusher |
| | beige Wemid / orange pusher |
| | beige Wemid / red and blue pushers |
| Note | |

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| AAP13 6 LO-LO | 20 | 1988260000 |

| Type | Qty. | Order No. |
|---------------|------|-------------------|
| AAP13 6 FE-LO | 20 | 1988270000 |

FE = functional earth, contact to terminal rail.

Accessories

| Pluggable cross-connection | |
|-----------------------------|---------------|
| | 2-pole/ red |
| | 10-pole/ red |
| | 2-pole/ blue |
| | 10-pole/ blue |
| End plate / Partition plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|-------------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP AP13 | | 20 | 1990140000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

| Type | current | Qty. | Order No. |
|-----------------------|---------|------|-------------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP AP13 | | 20 | 1990140000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| DEK-A 5/8 MM WS | | 500 | 2448860000 |
| WS-A 8/8 MM WS | | 500 | 2448930000 |
| DEK 5/8 PLUS MC NE WS | | 800 | 1046350000 |
| WS 10/8 PLUS MC NE WS | | 420 | 1905950000 |

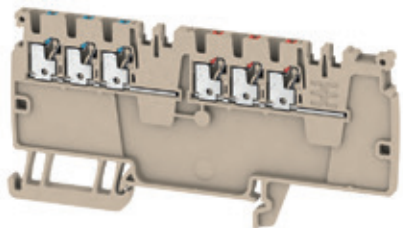
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

AAP13 1.5 LI-LI

1.5 mm²



3.5 x 96 x 48
16 / 1.5
0.14...1.5



IEC/EN 60947-7-1:2009

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 250 | 150 | | |
| 16 | 13 | | |
| 1.5 | AWG 26...14 | | |
| 4 kV / 3 | | | |
| A1 / V-0 | | | |

CE

Rated connection

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

| Type | Qty. | Order No. |
|-----------------|------|------------|
| AAP13 1.5 LI-LI | 50 | 1988280000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 1.5N/2 RD | 17.5 A | 60 | 1985650000 |
| ZQV 1.5N/10 RD | 17.5 A | 20 | 1985800000 |
| ZQV 1.5N/2 BL | 17.5 A | 60 | 1985530000 |
| ZQV 1.5N/10 BL | 17.5 A | 20 | 1985680000 |
| AEP AP13 | | 20 | 1990140000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| SDIS 0.4X2.0X60 | | 1 | 9205690000 |
| WS 10/3.5 PLUS MC NE WS | | 960 | 2003760000 |
| DEK 5/3.5 PLUS MC NE WS | | 1600 | 2003750000 |
| DEK 5/3.5 MM WS | | 1000 | 2007100000 |
| WS 8/3.5 MM WS | | 1000 | 2007140000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

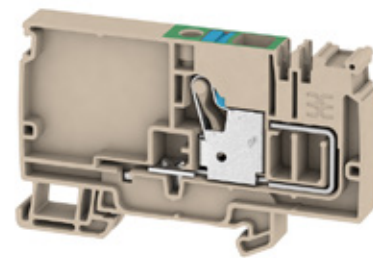
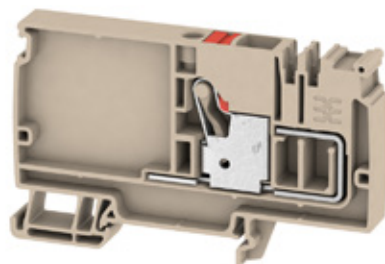
Potential distribution with separate fusing

AAP12 10 LO

10 mm²

AAP12 10 FE

10 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-----------------|
| 10 x 89 x 54 |
| 57 / 10 |
| 0.5...10 |

| |
|-----------------|
| 10 x 89 x 54 |
| / 10 |
| 0.5...10 |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|------------|-----|------------|
| 800 | 600 | | |
| 57 | 51 | | |
| 10 | AWG 20...6 | | |
| 8 kV / 3 | | | |
| A6 / V-0 | | | |

CE

| Rated connection |
|---------------------|
| 0.5...10 / 0.5...10 |
| 0.5...10 / 0.5...10 |
| 18 / 1.0 x 5.5 mm |

Approval in progress

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|------------|-----|------------|
| 800 | 600 | | |
| | | | |
| 10 | AWG 20...6 | | |
| 8 kV / 3 | | | |
| A6 / V-0 | | | |

CE

| Rated connection |
|---------------------|
| 0.5...10 / 0.5...10 |
| 0.5...10 / 0.5...10 |
| 18 / 1.0 x 5.5 mm |

Approval in progress

Ordering data

| Version | |
|-------------|------------------------------------|
| | beige Wemid / red pusher |
| | beige Wemid / blue pusher |
| | beige Wemid / orange pusher |
| | beige Wemid / red and blue pushers |
| Note | |

| Type | Qty. | Order No. |
|----------------|------|-------------------|
| AAP12 10 LO RD | 20 | 1988190000 |
| AAP12 10 LO BL | 20 | 1988180000 |
| AAP12 10 LO OR | 20 | 2503900000 |

| Type | Qty. | Order No. |
|-------------|------|-------------------|
| AAP12 10 FE | 20 | 1988200000 |

FE = functional earth, contact to DIN rail.

Accessories

| Pluggable cross-connection | |
|------------------------------------|---------------|
| | 2-pole/ red |
| | 10-pole / red |
| | 2-pole / blue |
| | 10-pole/ blue |
| End plate / Partition plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|-------------------|
| ZQV 2.5N/2 RD | 24 A | 60 | 2108470000 |
| ZQV 2.5N/10 RD | 24 A | 20 | 2108910000 |
| ZQV 2.5N/2 BL | 24 A | 60 | 1527740000 |
| ZQV 2.5N/10 BL | 24 A | 20 | 1527880000 |
| AEP AP12 | | 20 | 1988300000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|-------------------|
| ZQV 2.5N/2 BL | 24 A | 60 | 1527740000 |
| ZQV 2.5N/10 BL | 24 A | 20 | 1527880000 |
| AEP AP12 | | 20 | 1988300000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

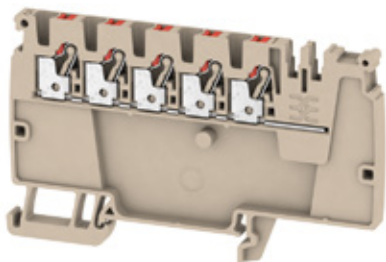
Transportation

Device Manufacturers

Infrastructure

AAP12 2.5 LI

2.5 mm²



5.1 x 89 x 54
24 / 2.5
0.5...2.5



IEC/EN 60947-7-1:2009

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 800 | 600 | | |
| 24 | 20 | | |
| 2.5 | AWG 28...12 | | |
| 8 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5
 0.5...2.5 / 0.5...2.5
 10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|-----------------|------|------------|
| AAP12 2.5 LI RD | 50 | 1988290000 |
| AAP12 2.5 LI BL | 50 | 1988100000 |
| AAP12 2.5 LI OR | 50 | 2503880000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 RD | 24 A | 60 | 2108470000 |
| ZQV 2.5N/10 RD | 24 A | 20 | 2108910000 |
| ZQV 2.5N/2 BL | 24 A | 60 | 1527740000 |
| ZQV 2.5N/10 BL | 24 A | 20 | 1527880000 |
| AEP AP12 | | 20 | 1988300000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

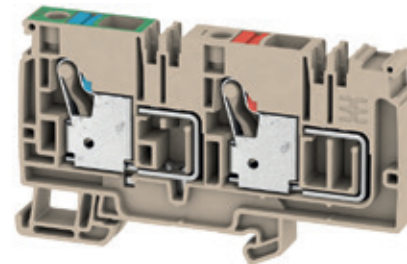
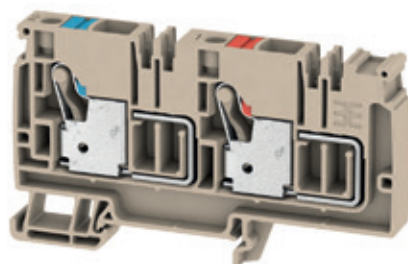
Potential distribution with separate fusing

AAP14 10 LO-LO

10 mm²

AAP14 10 FE-LO

10 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| | |
|-----------------|--|
| 10 x 94 x 54 | |
| 57 / 10 | |
| 0.5...10 | |

| | |
|-----------------|--|
| 10 x 94 x 54 | |
| 57 / 10 | |
| 0.5...10 | |

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|------------|-----|------------|
| 500 | 150 | | |
| 57 | 51 | | |
| 10 | AWG 20...6 | | |
| 6 kV / 3 | | | |
| A6 / V-0 | | | |

CE

| Rated connection | |
|---------------------|--|
| 0.5...10 / 0.5...10 | |
| 0.5...10 / 0.5...10 | |
| 18 / 1.0 x 5.5 mm | |

Approval in progress

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------|------------|-----|------------|
| 500 | 150 | | |
| 57 | 51 | | |
| 10 | AWG 20...6 | | |
| 6 kV / 3 | | | |
| A6 / V-0 | | | |

CE

| Rated connection | |
|---------------------|--|
| 0.5...10 / 0.5...10 | |
| 0.5...10 / 0.5...10 | |
| 18 / 1.0 x 5.5 mm | |

Approval in progress

Ordering data

| Version | |
|-------------|------------------------------------|
| | beige Wemid / red pusher |
| | beige Wemid / blue pusher |
| | beige Wemid / orange pusher |
| | beige Wemid / red and blue pushers |
| Note | |

| Type | Qty. | Order No. |
|----------------|------|-------------------|
| AAP14 10 LO-LO | 20 | 1988250000 |

| Type | Qty. | Order No. |
|----------------|------|-------------------|
| AAP14 10 FE-LO | 20 | 1988240000 |

FE = functional earth, contact to terminal rail

Accessories

| | |
|------------------------------------|---------------|
| Pluggable cross-connection | |
| | 2-pole/ red |
| | 10-pole / red |
| | 2-pole / blue |
| | 10-pole/ blue |
| End plate / Partition plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|-------------------|
| ZQV 2.5N/2 RD | 24 A | 60 | 2108470000 |
| ZQV 2.5N/10 RD | 24 A | 20 | 2108910000 |
| ZQV 2.5N/2 BL | 24 A | 60 | 1527740000 |
| ZQV 2.5N/10 BL | 24 A | 20 | 1527880000 |
| AEP AP14 | | 20 | 1988340000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|-------------------|
| ZQV 2.5N/2 RD | 24 A | 60 | 2108470000 |
| ZQV 2.5N/10 RD | 24 A | 20 | 2108910000 |
| ZQV 2.5N/2 BL | 24 A | 60 | 1527740000 |
| ZQV 2.5N/10 BL | 24 A | 20 | 1527880000 |
| AEP AP14 | | 20 | 1988340000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

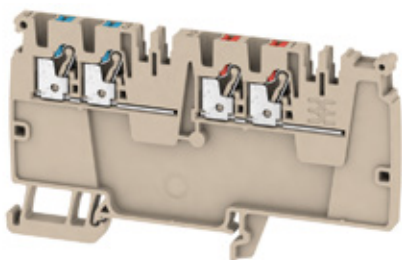
Transportation

Device Manufacturers

Infrastructure

AAP14 2.5 LI-LI

2.5 mm²



5.1 x 94 x 54
24 / 2.5
0.5...2.5



IEC/EN 60947-7-1:2009

| IEC | UL | CSA | EN 60079-7 |
|----------|-------------|-----|------------|
| 500 | 150 | | |
| 24 | 20 | | |
| 2.5 | AWG 28...12 | | |
| 6 kV / 3 | | | |
| A3 / V-0 | | | |

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

| Type | Qty. | Order No. |
|-----------------|------|------------|
| AAP14 2.5 LI-LI | 50 | 1988230000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 2.5N/2 RD | 24 A | 60 | 2108470000 |
| ZQV 2.5N/10 RD | 24 A | 20 | 2108910000 |
| ZQV 2.5N/2 BL | 24 A | 60 | 1527740000 |
| ZQV 2.5N/10 BL | 24 A | 20 | 1527880000 |
| AEP AP14 | | 20 | 1988340000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| DEK 5/5 PLUS MC NE WS | | 1000 | 1854490000 |
| WS 10/5 M PLUS MC NE WS | | 600 | 2003770000 |
| DEK 5/5 MM WS | | 800 | 2007110000 |
| WS 8/5 MM WS | | 800 | 2007150000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

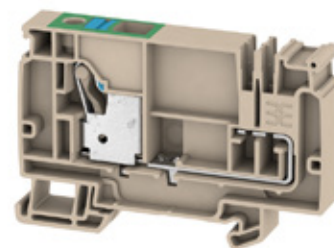
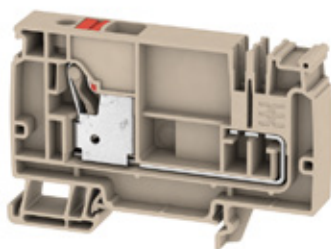
Potential distribution with integrated fusing

AAP21 10 LO

10 mm²

AAP21 10 FE

10 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-----------------|
| 12 x 82 x 54 |
| 57 / 10 |
| 0.5...10 |

| |
|-----------------|
| 12 x 82 x 54 |
| / 10 |
| 0.5...10 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------------------|----------|-----|------------|
| 250 | | | |
| 57 | | | |
| 10 | | | |
| | 4 kV / 3 | | |
| | A6 / V-0 | | |
| Rated connection | | | |
| 0.5...10 / 0.5...10 | | | |
| 0.5...10 / 0.5...10 | | | |
| 18 / 1.0 x 5.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|----------------------|----------|-----|------------|
| 250 | | | |
| 10 | | | |
| | 4 kV / 3 | | |
| | A6 / V-0 | | |
| Rated connection | | | |
| 0.5...10 / 0.5...10 | | | |
| 0.5...10 / 0.5...10 | | | |
| 18 / 1.0 x 5.5 mm | | | |
| Note | | | |
| Approval in progress | | | |

Ordering data

| Version | |
|---------|------------------------------------|
| | beige Wemid / red pusher |
| | beige Wemid / blue pusher |
| | beige Wemid / orange pusher |
| | beige Wemid / red and blue pushers |
| Note | |

| Type | Qty. | Order No. |
|----------------|------|------------|
| AAP21 10 LO RD | 20 | 2428910000 |
| AAP21 10 LO BL | 20 | 2428940000 |
| Note | | |

| Type | Qty. | Order No. |
|-------------------------------------------------|------|------------|
| AAP21 10 FE | 20 | 2428920000 |
| Note | | |
| Functional earth (FE), contact to terminal rail | | |

Accessories

| Pluggable cross-connection | |
|-----------------------------|---------------|
| | 2-pole/ red |
| | 10-pole / red |
| | 2-pole / blue |
| | 10-pole/ blue |
| End plate / Partition plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test adapter | |
| | 1-pole |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|------------|
| ZQV 4N/2 RD | | 60 | 2460450000 |
| ZQV 4N/10 RD | | 20 | 2460740000 |
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| AEP AP21 | | 20 | 2429020000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|------------|
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| AEP AP21 | | 20 | 2429020000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

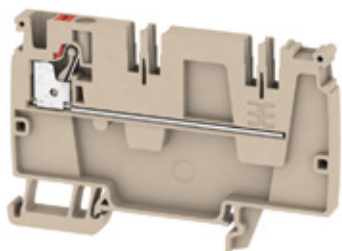
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

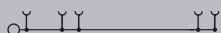
All MultiMark variants (MM) = strip markers

AAP21 4 LI

4 mm²



6.1 x 82 x 54
32 / 4
0.5...4



In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|-----|----|----------|------------|
| 250 | | | |
| 32 | | | |
| 4 | | | |
| | | 4 kV / 3 | |
| | | A4 / V-0 | |

| Rated connection |
|----------------------|
| 0.5...4 / 0.5...4 |
| 0.5...4 / 0.5...4 |
| 12 / 0.6 x 3.5 mm |
| Approval in progress |

| Type | Qty. | Order No. |
|---------------|------|------------|
| AAP21 4 LI RD | 50 | 2428930000 |
| AAP21 4 LI BL | 50 | 2428960000 |
| | | |
| | | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 4N/2 RD | | 60 | 2460450000 |
| ZQV 4N/10 RD | | 20 | 2460740000 |
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| AEP AP21 | | 20 | 2429020000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| ATPG 1.5-10 L | | 50 | 1991890000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | 600 | | 2003780000 |
| DEK 5/6 PLUS MC NE WS | 1000 | | 1011320000 |
| DEK 5/6 MM WS | 600 | | 2007120000 |
| WS 8/6 MM WS | 600 | | 2007160000 |

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

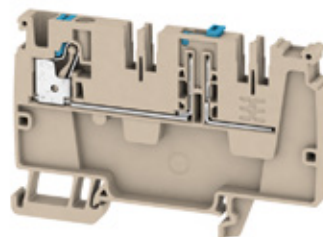
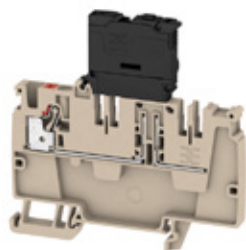
Potential distribution with integrated fusing

AAP21 4 FS

4 mm²

AAP21 4 DT

4 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|----------------|
| 6.1 x 82 x 82 |
| 6.3 / 4 |
| 0.5...4 |

| |
|-----------------|
| 6.1 x 82 x 55.5 |
| 20 / 4 |
| 0.5...4 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage to adjoining terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length | |
| Blade size | |
| Note | |

In accordance with IEC 60947-7-3

| IEC | UL | CSA | EN 60079-7 |
|-----|----|----------|------------|
| 250 | | | |
| 6.3 | | | |
| 4 | | | |
| | | 4 kV / 3 | |
| | | V-0 | |

| Rated connection | |
|-------------------|--|
| 0.5...4 / 0.5...4 | |
| 0.5...4 / 0.5...4 | |
| 12 mm | |
| 0.6 x 3.5 mm | |

Approval in progress

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|-----|----|----------|------------|
| 250 | | | |
| 20 | | | |
| 4 | | | |
| | | 4 kV / 3 | |
| | | V-0 | |

| Rated connection | |
|-------------------|--|
| 0.5...4 / 0.5...4 | |
| 0.5...4 / 0.5...4 | |
| 12 mm | |
| 0.6 x 3.5 mm | |

Approval in progress

Ordering data

| Version | |
|---------------------------|--|
| 250 V AC/DC, without LED | |
| 10-36 V AC/DC, with LED | |
| 30-70 V AC/DC, with LED | |
| 60-150 V AC/DC, with LED | |
| 100-250 V AC/DC, with LED | |
| beige Wemid / blue pusher | |
| Note | |

| Type | Qty. | Order No. |
|---------------------|------|------------|
| AAP21 4 FS | 50 | 2428950000 |
| AAP21 4 FS 10-36V | 50 | 2458990000 |
| AAP21 4 FS 30-70V | 50 | 2460200000 |
| AAP21 4 FS 60-150V | 50 | 2460190000 |
| AAP21 4 FS 100-250V | 50 | 2460180000 |

| Type | Qty. | Order No. |
|------------|------|------------|
| AAP21 4 DT | 50 | 2428980000 |

Accessories

| Pluggable cross-connection | |
|-------------------------------------------|--|
| 2-pole/ red | |
| 10-pole / red | |
| 2-pole / blue | |
| 10-pole/ blue | |
| End plate / Partition plate | |
| End bracket | |
| dark beige | |
| dark beige | |
| Test plug | |
| Screwdriver | |
| Standard | |
| Identification systems | |
| G-fuse cartridge, 5 x 20 mm (IEC 60127-2) | |
| 0.25 A fast | |
| 0.50 A fast | |
| 1.00 A fast | |
| 2.00 A fast | |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 4N/2 RD | | 60 | 2460450000 |
| ZQV 4N/10 RD | | 20 | 2460740000 |
| AEP AP21 | | 20 | 2429020000 |
| AEB 35 SC/1 | 50 | | 1991920000 |
| ZEW 35/2 | 20 | | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | 600 | | 2003780000 |
| DEK 5/6 MM WS | 600 | | 2007120000 |
| WS 8/6 MM WS | 600 | | 2007160000 |
| DEK 5/6 PLUS MC NE WS | 1000 | | 1011320000 |
| G 20/0.25A/F | 10 | | 0430500000 |
| G 20/0.50A/F | 10 | | 0430600000 |
| G 20/1.00A/F | 10 | | 0430700000 |
| G 20/2.00A/F | 10 | | 0430900000 |

| Type | current | Qty. | Order No. |
|-------------------------|---------|------|------------|
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| AEP AP21 | | 20 | 2429020000 |
| AEB 35 SC/1 | 50 | | 1991920000 |
| ZEW 35/2 | 20 | | 8630740000 |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | 600 | | 2003780000 |
| DEK 5/6 MM WS | 600 | | 2007120000 |
| WS 8/6 MM WS | 600 | | 2007160000 |
| DEK 5/6 PLUS MC NE WS | 1000 | | 1011320000 |

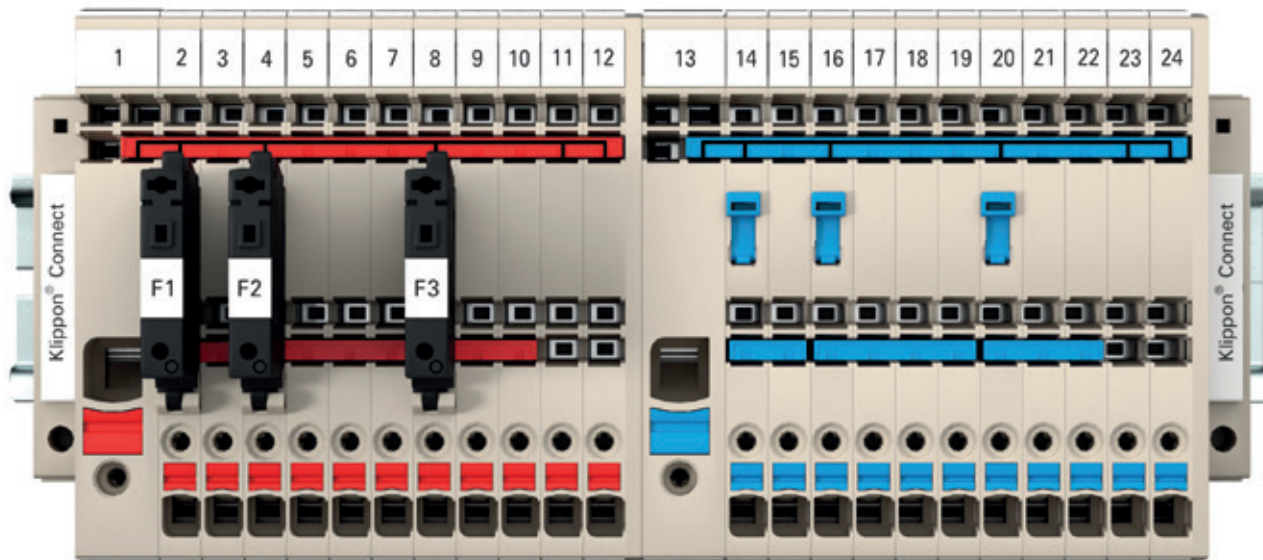
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

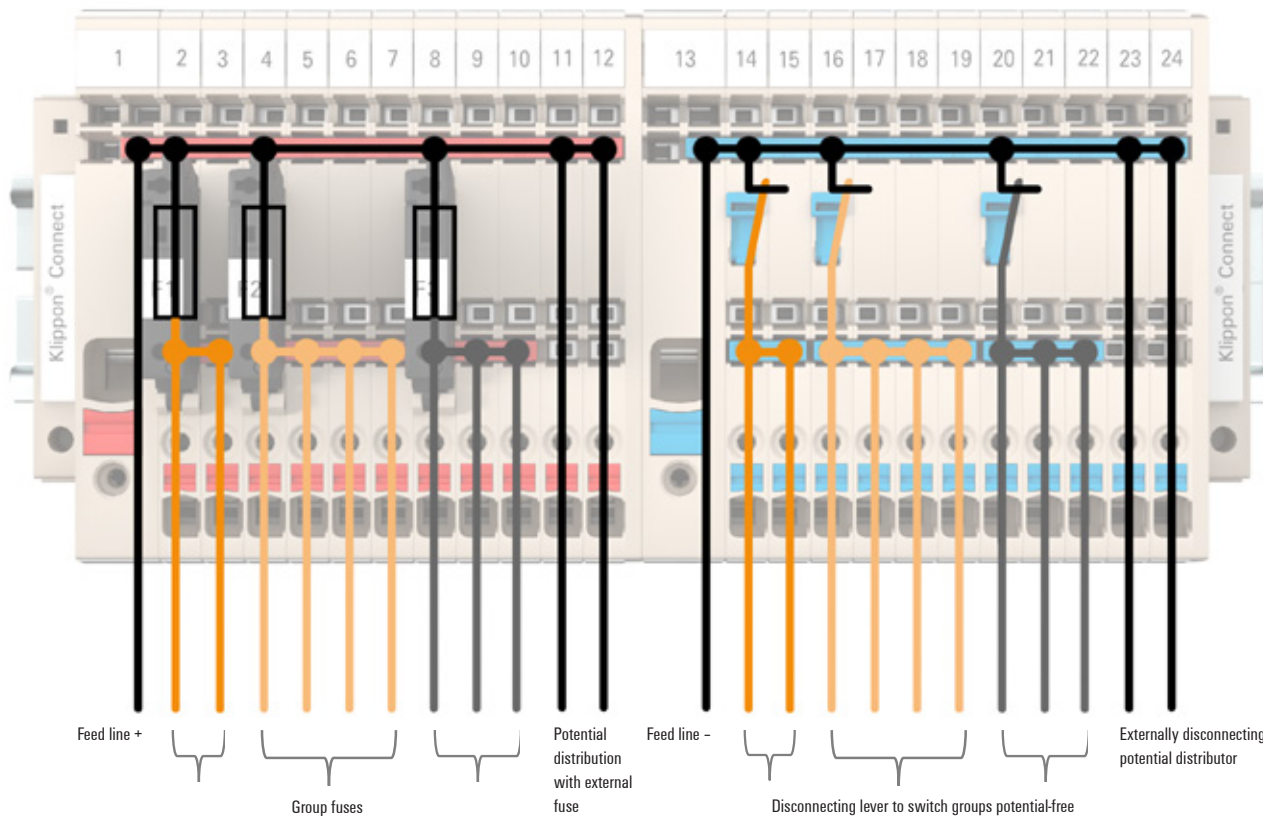
Clear, compact construction of control voltage distribution

Example configuration of potential distribution terminal block with fusing



- Group fusing through breakaway of individual poles in the cross-connections
- Groups can be switched potential-free via a disconnector
- Direct potential distribution possible without fusing within the structure

Schematic representation of circuit diagram



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

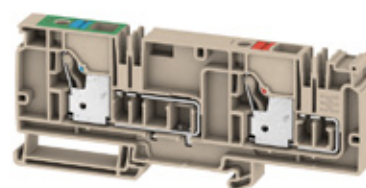
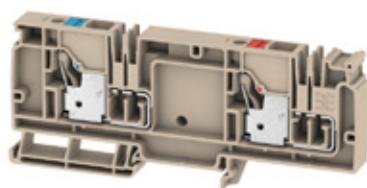
Potential distribution with integrated fusing

AAP22 10 LO-LO

10 mm²

AAP22 10 FE-LO

10 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|-----------------|
| 12 x 129 x 54 |
| 57 / 10 |
| 0.5...10 |

| |
|-----------------|
| 12 x 129 x 54 |
| 17 / 10 |
| 0.5...10 |

Technical data

| Rated data | |
|------------------------------------------------------|-----------------|
| Rated voltage of feed-through terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| Gauge to IEC 60947-1 / UL 94 flammability rating | |
| Number of operating cycles | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length / Blade size | mm/- |
| Note | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|-------------------------|----|----------|------------|
| 250 | | | |
| 57 | | | |
| 10 | | | |
| | | 4 kV / 3 | |
| | | A6 / V-0 | |
| Rated connection | | | |
| 0.5...10 / 0.5...10 | | | |
| 0.5...10 / 0.5...10 | | | |
| 18 / 1.0 x 5.5 mm | | | |
| Approval in progress | | | |

In accordance with IEC 60947-7-1

| IEC | UL | CSA | EN 60079-7 |
|-------------------------|----|----------|------------|
| 250 | | | |
| 17 | | | |
| 10 | | | |
| | | 4 kV / 3 | |
| | | A6 / V-0 | |
| Rated connection | | | |
| 0.5...10 / 0.5...10 | | | |
| 0.5...10 / 0.5...10 | | | |
| 18 / 1.0 x 5.5 mm | | | |
| Approval in progress | | | |

Ordering data

| | |
|----------------|------------------------------------|
| Version | beige Wemid / red and blue pushers |
| Note | |

| Type | Qty. | Order No. |
|----------------|------|------------|
| AAP22 10 LO-LO | 20 | 2428990000 |

| Type | Qty. | Order No. |
|----------------|------|------------|
| AAP22 10 FE-LO | 20 | 2429000000 |

Accessories

| Pluggable cross-connection | |
|-----------------------------|---------------|
| | 2-pole/ red |
| | 10-pole / red |
| | 2-pole / blue |
| | 10-pole/ blue |
| End plate / Partition plate | |
| End bracket | |
| | dark beige |
| | dark beige |
| Test plug | |
| Screwdriver | |
| | Standard |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|------------|
| ZQV 4N/2 RD | | 60 | 2460450000 |
| ZQV 4N/10 RD | | 20 | 2460740000 |
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| AEP AP22 | | 20 | 2429040000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

| Type | current | Qty. | Order No. |
|--------------------------|---------|------|------------|
| ZQV 4N/2 RD | | 60 | 2460450000 |
| ZQV 4N/10 RD | | 20 | 2460740000 |
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| AEP AP22 | | 20 | 2429040000 |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35/2 | | 20 | 8630740000 |
| PS 2.0 MC | | 20 | 0310000000 |
| SDIL 1,0x5,5x125 | | 1 | 9042130000 |
| WS 7.8/9.2 PLUS MC NE GR | | 360 | 1208970000 |

For detailed information on other accessories and application in the online catalogue

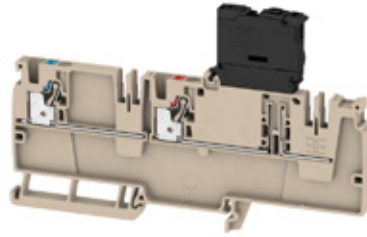
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

AAP - potential distribution terminal blocks

AAP22 4 LI-FS

4 mm²



| | |
|-----------------------------------------|-------------------|
| Width/Height/Depth | mm |
| max. current / max. cond. cross-section | A/mm ² |
| Max. clamping range | mm ² |

| |
|----------------|
| 6.1 x 129 x 82 |
| 6.3 / 4 |
| 0.5...4 |

In accordance with IEC 60947-7-1, In accordance with IEC 60947-7-3

Technical data

| | |
|------------------------------------------------------|-----------------|
| Rated data | |
| Rated voltage to adjoining terminal | V |
| Rated current | A |
| for wire cross-section | mm ² |
| Rated impulse withstand voltage / Pollution severity | |
| UL 94 flammability rating | |
| Approvals | |
| Clamped conductors (H05V/H07V) | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length | |
| Blade size | |

| IEC | UL | CSA | EN 60079-7 |
|-----|----|----------|------------|
| 250 | | | |
| 6.3 | | | |
| 4 | | | |
| | | 4 kV / 3 | |
| | | V-0 | |

Note

| | |
|----------------------------------|-----------------|
| Rated connection | |
| Solid / Stranded | mm ² |
| Flexible / Flexible with ferrule | mm ² |
| Stripping length | mm |
| Blade size | mm |

Approval in progress

Ordering data

| | |
|---------------------------|--|
| Version | |
| 250 V AC/DC, without LED | |
| 10-36 V AC/DC, with LED | |
| 30-70 V AC/DC, with LED | |
| 60-150 V AC/DC, with LED | |
| 100-250 V AC/DC, with LED | |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| AAP22 4 LI-FS | 50 | 2429010000 |
| AAP22 4 LI-FS 10-36V | 50 | 2459010000 |
| AAP22 4 LI-FS 30-70V | 50 | 2460140000 |
| AAP22 4 LI-FS 60-150V | 50 | 2460130000 |
| AAP22 4 LI-FS 100-250V | 50 | 2460120000 |

Note

Accessories

| | |
|------------------------------------|--|
| Pluggable cross-connection | |
| 2-pole / blue | |
| 10-pole / blue | |
| 2-pole / red | |
| 10-pole / red | |
| End plate / Partition plate | |
| End bracket | |
| dark beige | |
| dark beige | |
| Screwdriver | |
| Standard | |
| Identification systems | |

| Type | current | Qty. | Order No. |
|--------------------------------|---------|------|------------|
| ZQV 4N/2 BL | 32 A | 60 | 1528040000 |
| ZQV 4N/10 BL | 32 A | 20 | 1528230000 |
| ZQV 4N/2 RD | | 60 | 2460450000 |
| ZQV 4N/10 RD | | 20 | 2460740000 |
| AEP AP22 | | | |
| AEP AP22 | | 20 | 2429040000 |
| AEB 35 SC/1 | | | |
| AEB 35 SC/1 | | 50 | 1991920000 |
| ZEW 35 | | | |
| ZEW 35 | | 20 | 9540000000 |
| SDIL 0,6x3,5x100 | | | |
| SDIL 0,6x3,5x100 | | 1 | 9042110000 |
| WS 10/6 M PLUS MC NE WS | | | |
| WS 10/6 M PLUS MC NE WS | | 600 | 2003780000 |
| DEK 5/6 MM WS | | | |
| DEK 5/6 MM WS | | 600 | 2007120000 |
| WS 8/6 MM WS | | | |
| WS 8/6 MM WS | | 600 | 2007160000 |
| DEK 5/6 PLUS MC NE WS | | | |
| DEK 5/6 PLUS MC NE WS | | 1000 | 1011320000 |
| G 20/0.25A/F | | | |
| G 20/0.25A/F | | 10 | 0430500000 |
| G 20/0.50A/F | | | |
| G 20/0.50A/F | | 10 | 0430600000 |
| G 20/1.00A/F | | | |
| G 20/1.00A/F | | 10 | 0430700000 |
| G 20/2.00A/F | | | |
| G 20/2.00A/F | | 10 | 0430900000 |

G-fuse cartridge, 5 x 20 mm (IEC 60127-2)

| |
|-------------|
| 0.25 A fast |
| 0.50 A fast |
| 1.00 A fast |
| 2.00 A fast |

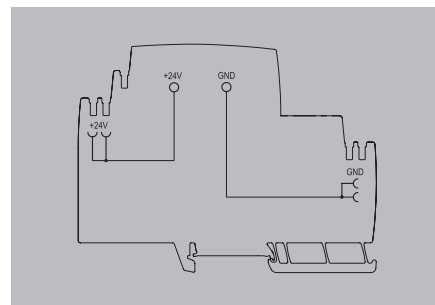
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

maxGUARD – power-feed module

Passive power-feed module

AMG FIM-0



Technical data

| Input | |
|----------------------------------------------|---------------------------------|
| Input fuse (internal) | No |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | |
| Current consumption (full load) | |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | |
| General data | |
| Protection degree | IP20 |
| Control inputs | No |
| Overvoltage category | III |
| Connection data | |
| Number of terminals | 2 (+,-) |
| Wire cross-section, AWG/kcmil min/max | 18...6 |
| Wire cross-section, flexible min/max | 0.75...16 mm ² |
| Wire cross-section, rigid min/max | 0.75...10 mm ² |
| Screwdriver blade | 1.2 x 6.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

Ordering data

| Rated current | Type | Qty. | Order No. |
|---------------|-----------|------|-------------------|
| | AMG FIM-0 | 1 | 2081870000 |
| Note | | | |

Technical data

Machinery

Process

Energy

Transportation

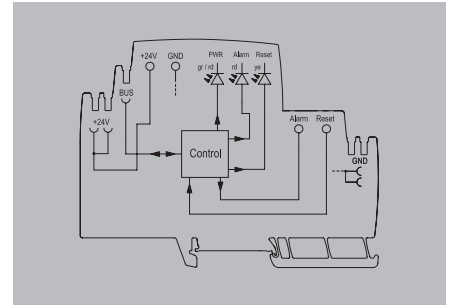
Device Manufacturers

Infrastructure

maxGUARD – power-feed module

Active power-feed module with reset and alarm function

AMG FIM-C



Technical data

| Input | |
|----------------------------------------------|-------------------------------------------------|
| Input fuse (internal) | No |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 20 mA |
| Current consumption (full load) | 120 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | Suppressor diode |
| General data | |
| Protection degree | IP20 |
| Control inputs | Reset |
| Overvoltage category | III |
| Signalling | |
| LED yellow | External reset is signalled, Alarm is signalled |
| LED green | Operating voltage OK |
| LED red | Alarm |
| Transistor output, positive-switching | Alarm |
| Connection data | |
| Number of terminals | 2 (+,-) |
| Wire cross-section, AWG/kcmil min/max | 18...6 |
| Wire cross-section, flexible min/max | 0.75...16 mm ² |
| Wire cross-section, rigid min/max | 0.75...10 mm ² |
| Screwdriver blade | 1.2 x 6.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

Ordering data

| Rated current | |
|---------------|--|
| Note | |

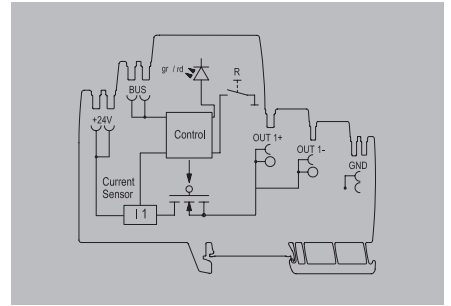
| Type | Qty. | Order No. |
|-----------|------|------------|
| AMG FIM-C | 1 | 2081880000 |



maxGUARD – load monitoring (fixed value)

Electronic load monitoring with fixed current (without I > 90% function)

AMG ELM - xF



Technical data

| Input | |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) / Current consumption (full load) | 25 mA / I _{load} +30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Switch-on delay | 1 s |
| Capacitive load | 2080420000: 10,000 µF; 2080480000: 10,000 µF; 2080490000: 10,000 µF; 2080500000: 15,000 µF |
| Surge protection | Suppressor diode |
| Function key | |
| LED initial state | LED green, in operation LED flashing red, load monitoring has triggered (disconnected) LED red (permanently lit) |

| | | | |
|-----------------------|----------------------------------|----------------------------------|------------------------|
| Pressing the button | > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
| LED, subsequent state | Red LED switched off | Red LED switched off | LED green switched on |

Pressing the button

LED, subsequent state
Output, subsequent state

| General data | |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Relay to activate the output | No |
| Protection degree / Overvoltage category | IP20 / III |
| Signalling | |
| LED green | Operation (failure-free) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
| Connection data | |
| Number of terminals | 2 (+ / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

| Type | Qty. | Order No. |
|------------|------|------------|
| AMG ELM-1F | 1 | 2080420000 |
| AMG ELM-2F | 1 | 2080480000 |
| AMG ELM-4F | 1 | 2080490000 |
| AMG ELM-6F | 1 | 2080500000 |

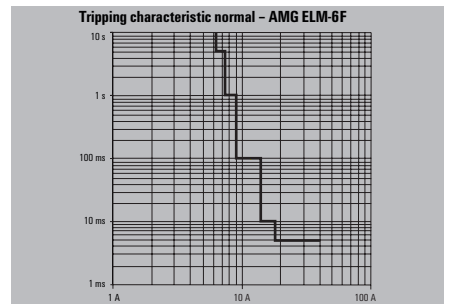
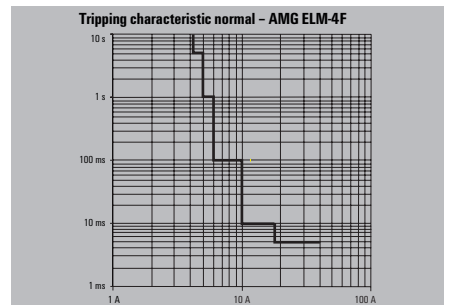
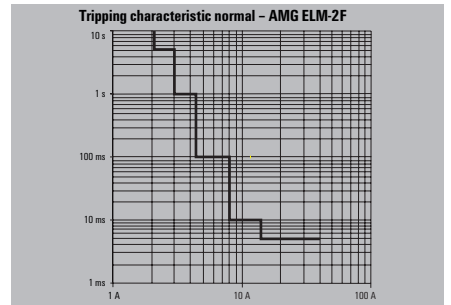
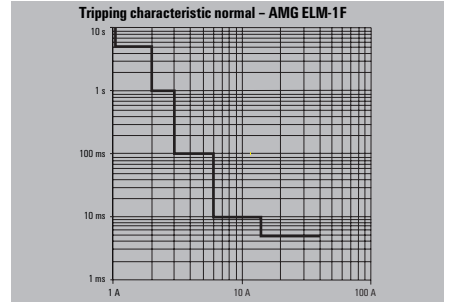
Ordering data

| Rated current | |
|---------------|--|
| 1.00 A | |
| 2.00 A | |
| 4.00 A | |
| 6.00 A | |
| Note | |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |

Accessories

| Note | |
|------|--|
|------|--|



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – load monitoring (fixed value)

Electronic load monitoring with fixed rated current (without I > 90 % pre warning)

Technical data

| | |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Input | |
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | I _{OUT} +30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | Suppressor diode |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Switch-on delay | 1 s |
| Capacitive load | 2080600000: 15,000 µF; 2080650000: 20,000 µF |
| Function key | |
| LED initial state | LED green, in operation LED flashing red, load monitoring has triggered (disconnected) LED red (permanently lit) |
| Pressing the button | > 0.1 to 2 s (manual disconnect) > 0.1 to 2 s (confirm and reset) > 0.1 to 2 s (restart) |
| LED, subsequent state | Red LED switched off Red LED switched off LED green switched on |
| Output, subsequent state | No |
| General data | |
| Relay to activate the output | IP20 |
| Protection degree | III |
| Oversvoltage category | Operation (failure-free) |
| Signalling | |
| LED green | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
| LED red | |
| Connection data | |
| Number of terminals | 4 (++ / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

Ordering data

| | |
|----------------------|---------|
| Rated current | 8.00 A |
| | 10.00 A |
| Note | |

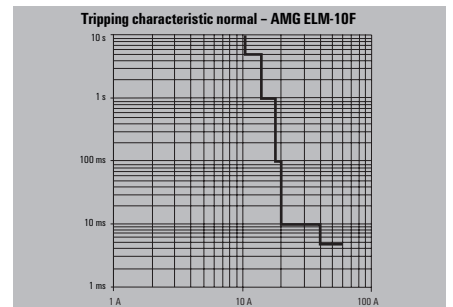
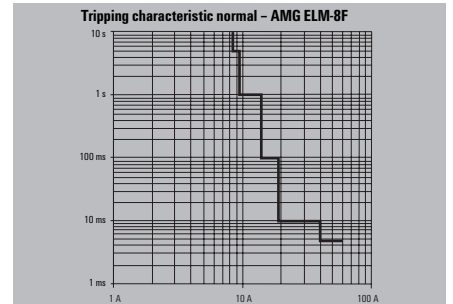
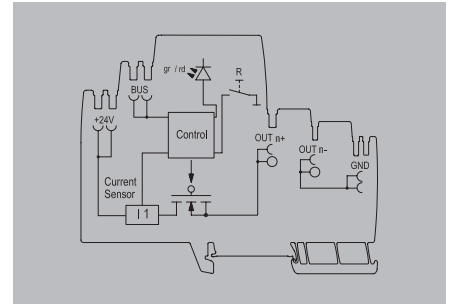
Accessories

| | |
|-------------|--|
| Note | |
|-------------|--|

AMG ELM - xF



| | | |
|-------------|-------------|------------------|
| Type | Qty. | Order No. |
| AMG ELM-8F | 1 | 2080600000 |
| AMG ELM-10F | 1 | 2080650000 |
| Note | | |
| Type | Qty. | Order No. |
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



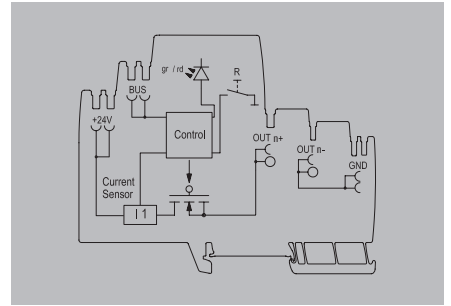
Infrastructure



maxGUARD – load monitoring (fixed value), Class 2

Electronic load monitoring with fixed rated current (without I > 90 % pre warning)
 • Class 2 Approval

AMG ELM - xF CL2



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Technical data

| Input | |
|----------------------------------------------|--------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | I _{OUT} +30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | Suppressor diode |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Switch-on delay | 1 s |
| Capacitive load | 4.700 µF |

Function key

| | | | |
|-----------------------|----------------------------------|----------------------------------------------------------------|---------------------------|
| LED initial state | LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
| Pressing the button | > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
| LED, subsequent state | Red LED switched off | Red LED switched off | LED green switched on |

General data

| Relay to activate the output | No |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| Protection degree | IP20 |
| Overvoltage category | III |
| Signalling | |
| LED green | Operation (failure-free) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |

Connection data

| | |
|---------------------------------------|----------------------------|
| Number of terminals | 2 (+ / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |

Approvals

| | |
|-----------|----------------------------------------------------|
| Approvals | CE, TÜV (60950), cULus, UL 2367, class 2 (UL 1310) |
|-----------|----------------------------------------------------|

Note

Ordering data

| | 1.00 A |
|------|--------|
| | 2.00 A |
| | 4.00 A |
| Note | |

| |
|--------------------------|
| Yes |
| 18...30 V DC |
| 24 V DC |
| 25 mA |
| I _{OUT} +30 mA |
| 100 mVpp |
| Suppressor diode |
| PUSH IN |
| see characteristic curve |
| 1 s |
| 4.700 µF |

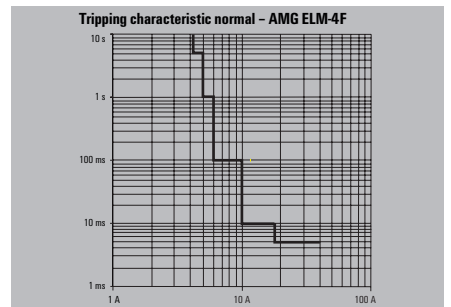
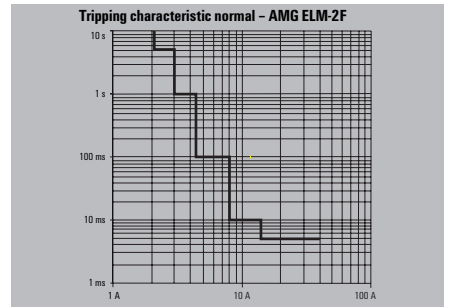
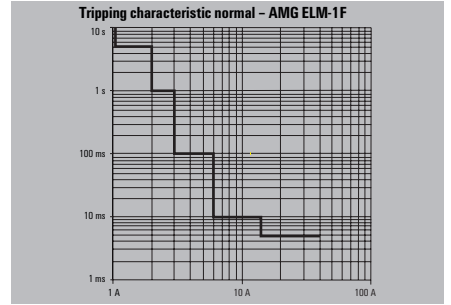
| | | |
|----------------------------------|----------------------------------------------------------------|---------------------------|
| LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
| > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
| Red LED switched off | Red LED switched off | LED green switched on |

| |
|-------------------------------------------------------------------------------------------------------------|
| No |
| IP20 |
| III |
| Operation (failure-free) |
| Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |

| |
|----------------------------|
| 2 (+ / -) |
| 26...12 |
| 0.14...2.5 mm ² |
| 0.14...2.5 mm ² |
| 0.6 x 3.5 |

| |
|----------------------------------------------------|
| CE, TÜV (60950), cULus, UL 2367, class 2 (UL 1310) |
|----------------------------------------------------|

| Type | Qty. | Order No. |
|----------------|------|------------|
| AMG ELM-1F CL2 | 1 | 2491270000 |
| AMG ELM-2F CL2 | 1 | 2491280000 |
| AMG ELM-4F CL2 | 1 | 2491290000 |



maxGUARD – load monitoring adjustable

Electronic load monitoring with adjustable triggering current and triggering characteristic

Technical data

| Input | |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Input fuse (internal) | |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | $I_{OUT} + 30$ mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Backup modes | 1- 6 A |
| Switch-on delay | 1 s |
| Capacitive load | 15,000 μ F |
| adjustable rated current | Yes |
| Surge protection | Suppressor diode |
| Function key | |
| LED initial state | LED green, in operation |
| | LED flashing red, load monitoring has triggered (disconnected) |
| | LED red (permanently lit) |
| Pressing the button | > 0.1 to 2 s (manual disconnect) |
| | > 0.1 to 2 s (confirm and reset) |
| | > 0.1 to 2 s (restart) |
| LED, subsequent state | Red LED switched off |
| Output, subsequent state | Red LED switched off |
| LED green | LED green switched on |
| General data | |
| Relay to activate the output | No |
| Protection degree | IP20 |
| Oversvoltage category | III |
| Signalling | |
| LED green | Operation (failure-free), Early warning: $I_{Out} > 90\%$ I_{Rated} (flashing) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
| Connection data | |
| Number of terminals | 2 (+ / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

Ordering data

| Rated current | 6.00 A |
|---------------|--------|
| Note | |

Accessories

| Note | |
|------|--|
|------|--|

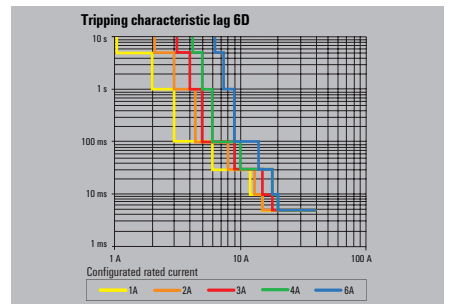
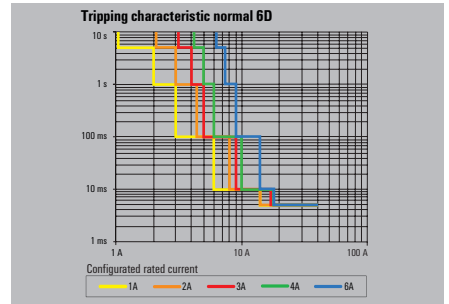
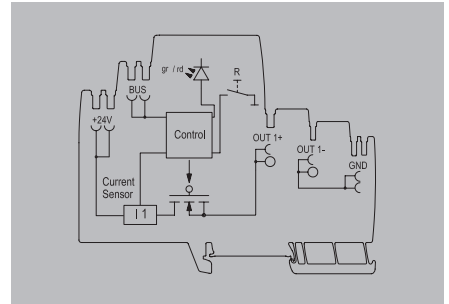
AMG ELM-6



| | | | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------|
| Yes | LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
| 18...30 V DC | > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
| 24 V DC | Red LED switched off | Red LED switched off | LED green switched on |
| 25 mA | Operation (failure-free), Early warning: $I_{Out} > 90\%$ I_{Rated} (flashing) | | |
| $I_{OUT} + 30$ mA | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) | | |
| 100 mVpp | | | |
| PUSH IN | | | |
| see characteristic curve | | | |
| 1- 6 A | | | |
| 1 s | | | |
| 15,000 μ F | | | |
| Yes | | | |
| Suppressor diode | | | |
| 2 (+ / -) | | | |
| 26...12 | | | |
| 0.14...2.5 mm ² | | | |
| 0.14...2.5 mm ² | | | |
| 0.6 x 3.5 | | | |
| CE, TÜV (60950), cULus, UL 2367 | | | |

| Type | Qty. | Order No. |
|-----------|------|------------|
| AMG ELM-6 | 1 | 2080360000 |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



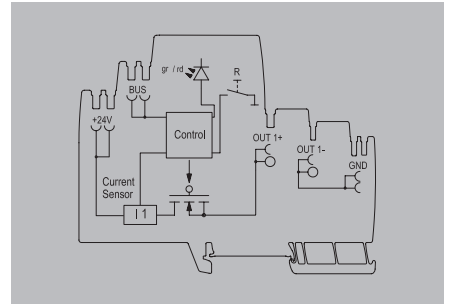
Infrastructure



maxGUARD – load monitoring adjustable

Electronic load monitoring with adjustable trigger current and characteristic (with I > 90 % pre warning)

AMG ELM-12



Technical data

| Input | |
|----------------------------------------------|--------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | I _{OUT} +30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Backup modes | 4-12 A |
| Switch-on delay | 1 s |
| adjustable rated current | Yes |
| Capacitive load | 20,000 µF |
| Surge protection | Suppressor diode |
| Function key | |
| LED initial state | LED green, in operation |

| | | |
|----------------------------------------------------------------|----------------------------------|------------------------|
| LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) | |
| > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
| Red LED switched off | Red LED switched off | LED green switched on |

Pressing the button

| LED, subsequent state | LED green |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| Output, subsequent state | LED green |
| General data | |
| Relay to activate the output | No |
| Protection degree | IP20 |
| Oversvoltage category | III |
| Signalling | |
| LED green | Operation (failure-free), Early warning: I _{Out} > 90% I _{Rated} (flashing) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |

| Connection data | |
|---------------------------------------|---------------------------------|
| Number of terminals | 4 (++) / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

Ordering data

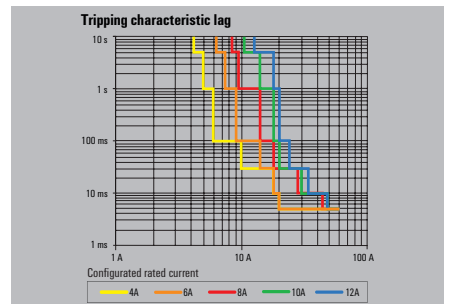
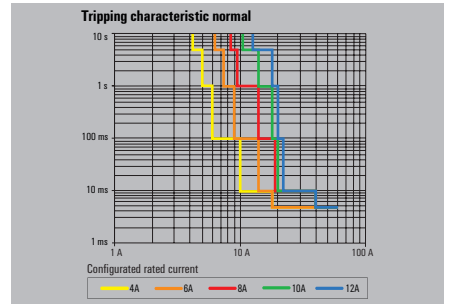
| Rated current | |
|---------------|---------|
| | 12.00 A |
| Note | |

| Type | Qty. | Order No. |
|------------|------|------------|
| AMG ELM-12 | 1 | 2080410000 |

Accessories

| Note | |
|------|--|
|------|--|

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – load monitoring with relay

Electronic load monitoring with 2-pole output relay for all-pole load disconnection; triggering current and triggering characteristic adjustable.

Technical data

| Input | |
|----------------------------------------------|--|
| Input fuse (internal) | |
| DC input voltage range | |
| Rated input voltage | |
| Current consumption (idle) | |
| max. admissible residual ripple at the input | |

| Output | |
|---------------------------|--|
| Connection system | |
| Triggering characteristic | |
| Backup modes | |

Switch-on delay
adjustable rated current
Capacitive load

Surge protection

| Function key | |
|-------------------|--|
| LED initial state | |

Pressing the button

LED, subsequent state
Output, subsequent state

| General data | |
|--------------------------------------|--|
| Relay to activate the output | |
| Protection degree / Surge protection | |
| Conformal coating | |

| Signalling | |
|------------|--|
| LED green | |
| LED red | |

| Connection data | |
|---------------------------------------|--|
| Number of terminals | |
| Wire cross-section, AWG/kcmil min/max | |
| Wire cross-section, flexible min/max | |
| Wire cross-section, rigid min/max | |
| Screwdriver blade | |

| Approvals | |
|-----------|--|
| Approvals | |

| Note | |
|------|--|
|------|--|

Ordering data

| Rated current | |
|---------------|---------|
| | 6.00 A |
| | 10.00 A |

| Note | |
|------|--|
|------|--|

Accessories

| Type | |
|---------|--|
| AMG DIS | |
| AMG MD | |
| AMG OD | |
| AMG PD | |

| Note | |
|------|--|
|------|--|

AMG ELM – adjustable with output relay



| |
|--------------|
| Yes |
| 18...30 V DC |
| 24 V DC |
| 40 mA |
| 100 mVpp |

| PUSH IN | |
|--------------------------|--|
| see characteristic curve | |
| 2082470000: 4- 10 A | |
| 2082440000: 1- 6 A | |

| |
|------------------|
| 1 s |
| Yes |
| 20,000 µF |
| 15,000 µF |
| Suppressor diode |

| | | |
|-------------------------|----------------------------------------------------------------|---------------------------|
| LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
|-------------------------|----------------------------------------------------------------|---------------------------|

| | | |
|----------------------------------|----------------------------------|------------------------|
| > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
|----------------------------------|----------------------------------|------------------------|

| | | |
|----------------------|----------------------|-----------------------|
| Red LED switched off | Red LED switched off | LED green switched on |
|----------------------|----------------------|-----------------------|

| Yes | |
|-------------------------|--|
| IP20 / Suppressor diode | |
| Yes | |

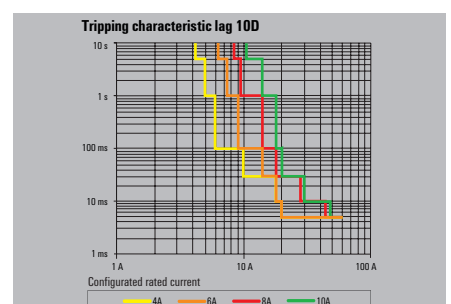
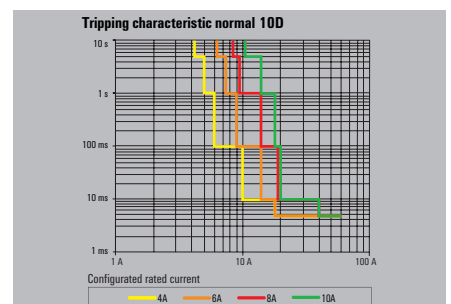
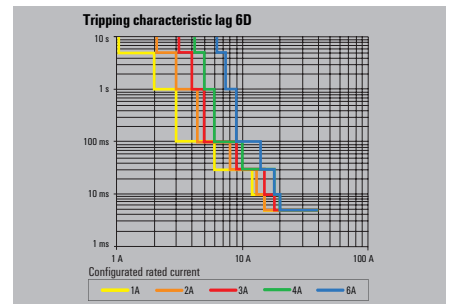
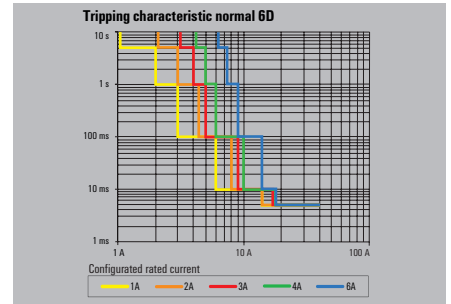
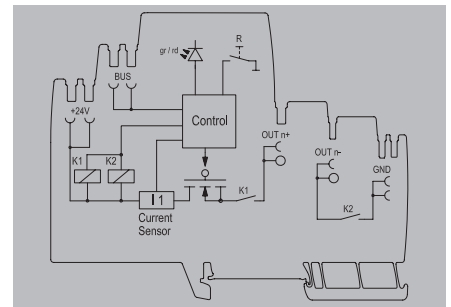
Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)
Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)

| |
|----------------------------|
| 6 (3x + / 3x -) |
| 26...12 |
| 0.14...2.5 mm ² |
| 0.14...2.5 mm ² |
| 0.6 x 3.5 |

CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx

| Type | Qty. | Order No. |
|----------------|------|------------|
| AMG ELM-6D CO | 1 | 2082440000 |
| AMG ELM-10D CO | 1 | 2082470000 |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



Technical data

Machinery

Process

Energy

Transportation

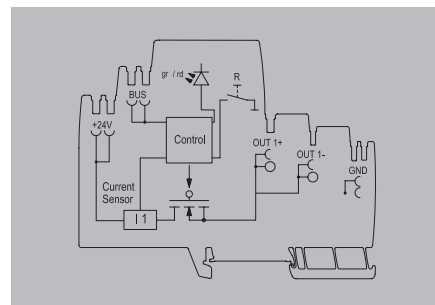
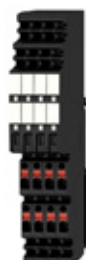
Device Manufacturers

Infrastructure

maxGUARD – load monitoring, 4 channels

4-channel electronic load monitoring with fixed triggering current.

AMG ELM - Qxxxx



Technical data

| Input | |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) / Current consumption (full load) | 35 mA / 4x I _{OUT} +45 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Switch-on delay | 1 s |
| adjustable rated current | No |
| Capacitive load | 10,000 µF |
| Surge protection | Suppressor diode |
| Rated current per channel | 2080750000: 2 A; 2 A; 2 A; 2 A 2081650000: 2 A; 2 A; 4 A; 4 A 2081820000: 2 A; 2 A; 6 A; 6 A 2080880000: 4 A; 4 A; 4 A; 4 A 2080920000: 6 A; 6 A; 6 A; 6 A |

| Number of channels | 4 |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|
| Function key | |
| LED initial state | LED green, in operation LED flashing red, load monitoring has triggered (disconnected) LED red (permanently lit) |
| Pressing the button | > 0.1 to 2 s (manual disconnect) > 0.1 to 2 s (confirm and reset) > 0.1 to 2 s (restart) |

| | |
|--------------------------|----------------------|
| LED, subsequent state | Red LED |
| Output, subsequent state | Red LED switched off |

| General data | |
|------------------------------------------|------------|
| Relay to activate the output | No |
| Protection degree / Overvoltage category | IP20 / III |

| Signalling | |
|------------|-------------------------------------------------------------------------------------------------------------|
| LED green | Operation (failure-free) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |

| Connection data | |
|---------------------------------------|----------------------------|
| Number of terminals | 8 (4x ++) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |

| Approvals | |
|-----------|---------------------------------|
| Approvals | CE, TÜV (60950), cULus, UL 2367 |

| Note | |
|------|--|
|------|--|

Ordering data

| Rated current | |
|---------------|--|
| Note | |

Accessories

| Note | |
|------|--|
|------|--|

| Input | |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) / Current consumption (full load) | 35 mA / 4x I _{OUT} +45 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Switch-on delay | 1 s |
| adjustable rated current | No |
| Capacitive load | 10,000 µF |
| Surge protection | Suppressor diode |
| Rated current per channel | 2080750000: 2 A; 2 A; 2 A; 2 A 2081650000: 2 A; 2 A; 4 A; 4 A 2081820000: 2 A; 2 A; 6 A; 6 A 2080880000: 4 A; 4 A; 4 A; 4 A 2080920000: 6 A; 6 A; 6 A; 6 A |

| Number of channels | 4 | | |
|---------------------|----------------------------------|----------------------------------------------------------------|---------------------------|
| Function key | | | |
| LED initial state | LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
| Pressing the button | > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |

| | |
|--------------------------|----------------------|
| LED, subsequent state | Red LED |
| Output, subsequent state | Red LED switched off |

| General data | |
|------------------------------------------|------------|
| Relay to activate the output | No |
| Protection degree / Overvoltage category | IP20 / III |

| Signalling | |
|------------|-------------------------------------------------------------------------------------------------------------|
| LED green | Operation (failure-free) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |

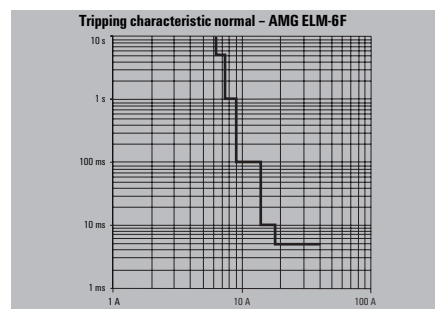
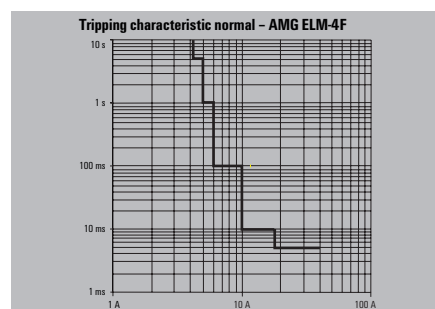
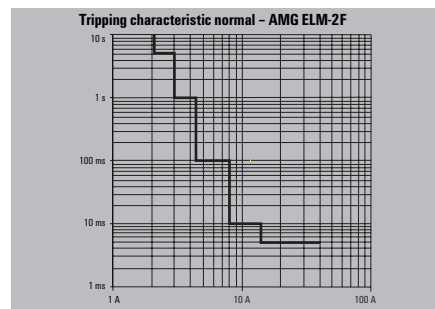
| Connection data | |
|---------------------------------------|----------------------------|
| Number of terminals | 8 (4x ++) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |

| Approvals | |
|-----------|---------------------------------|
| Approvals | CE, TÜV (60950), cULus, UL 2367 |

| Note | |
|------|--|
|------|--|

| Type | Qty. | Order No. |
|---------------|------|------------|
| AMG ELM-Q2222 | 1 | 2080750000 |
| AMG ELM-Q2244 | 1 | 2081650000 |
| AMG ELM-Q2266 | 1 | 2081820000 |
| AMG ELM-Q4444 | 1 | 2080880000 |
| AMG ELM-Q6666 | 1 | 2080920000 |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG XMD | 10 | 2122940000 |



maxGUARD – Alarm module

Alarm module with potential-free contacts for the "Alarm" and "I>90%" signals.

Technical data

| Input | |
|----------------------------------------------|----------------------------------------------|
| Input fuse (internal) | No |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | 30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | Suppressor diode |
| General data | |
| Protection degree | IP20 |
| Overvoltage category | III |
| Signalling | |
| LED yellow | Current > 90% Inom (flashing) |
| LED red | Alarm |
| Floating contact | Yes |
| Status relay (max. load) | Alarm (24 V / 0.1 A), I > 90% (24 V / 0.1 A) |
| Connection data | |
| Number of terminals | 4 (2 x NO) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

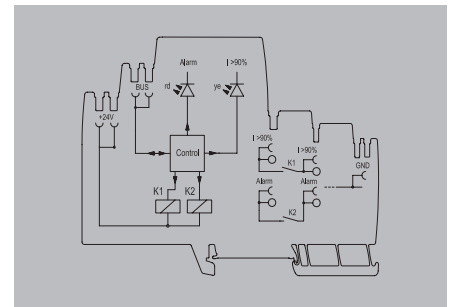
Ordering data

| Rated current | |
|---------------|--|
| Note | |

Accessories

| Pluggable cross-connection | |
|----------------------------|----------------|
| | 50-pole |
| | 50-pole / red |
| | 50-pole / blue |
| | 2-pole |
| | 2-pole / red |
| | 2-pole / blue |
| Note | |

AMG AM



| |
|----------------------------------------------|
| No |
| 18...30 V DC |
| 24 V DC |
| 25 mA |
| 30 mA |
| 100 mVpp |
| Suppressor diode |
| IP20 |
| III |
| Current > 90% Inom (flashing) |
| Alarm |
| Yes |
| Alarm (24 V / 0.1 A), I > 90% (24 V / 0.1 A) |
| 4 (2 x NO) |
| 26...12 |
| 0.14...2.5 mm ² |
| 0.14...2.5 mm ² |
| 0.6 x 3.5 |
| CE, TÜV (60950), cULus, UL 2367 |

| Type | Qty. | Order No. |
|--------|------|------------|
| AMG AM | 1 | 2081890000 |

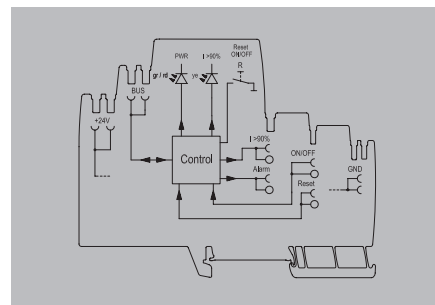
| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/50 | 5 | 1528130000 |
| ZQV 4N/50 RD | 5 | 2460730000 |
| ZQV 4N/50 BL | 5 | 1528240000 |
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/2 BL | 60 | 1528040000 |



maxGUARD – control module

Control module with extended control function: Alarm, Reset, >90%, ON/OFF

AMG CM



Technical data

| Input | |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | 225 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Surge protection | Suppressor diode |
| General data | |
| Relay to activate the output | No |
| Protection degree | IP20 |
| Control inputs | ON/ OFF, Reset |
| Overvoltage category | III |
| Signalling | |
| LED green | Operation (failure-free), Early warning: I Out > 90% I Rated (flashing) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
| Transistor output, positive-switching | Pre-warning, Alarm |
| Connection data | |
| Number of terminals | 2 (Reset / ON) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

| Technical data | | |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|
| DC input voltage range | 18...30 V DC | |
| Rated input voltage | 24 V DC | |
| Current consumption (idle) | 25 mA | |
| Current consumption (full load) | 225 mA | |
| max. admissible residual ripple at the input | 100 mVpp | |
| Output | | |
| Connection system | PUSH IN | |
| Surge protection | Suppressor diode | |
| General data | | |
| Relay to activate the output | No | |
| Protection degree | IP20 | |
| Control inputs | ON/ OFF, Reset | |
| Overvoltage category | III | |
| Signalling | | |
| LED green | Operation (failure-free), Early warning: I Out > 90% I Rated (flashing) | |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) | |
| Transistor output, positive-switching | Pre-warning, Alarm | |
| Connection data | | |
| Number of terminals | 2 (Reset / ON) | |
| Wire cross-section, AWG/kcmil min/max | 26...12 | |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² | |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² | |
| Screwdriver blade | 0.6 x 3.5 | |
| Approvals | | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 | |
| Note | | |

Ordering data

| Rated current | |
|---------------|--|
| Note | |

| Type | Qty. | Order No. |
|--------|------|------------|
| AMG CM | 1 | 2081900000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|--------------|
| 50-pole | ZQV 4N/50 |
| 50-pole / red | ZQV 4N/50 RD |
| 50-pole / blue | ZQV 4N/50 BL |
| 2-pole | ZQV 4N/2 |
| 2-pole/ red | ZQV 4N/2 RD |
| 2-pole / blue | ZQV 4N/2 BL |
| Note | |

| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/50 | 5 | 1528130000 |
| ZQV 4N/50 RD | 5 | 2460730000 |
| ZQV 4N/50 BL | 5 | 1528240000 |
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/2 BL | 60 | 1528040000 |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – Potential distributor

Potential distribution in combination with the electronic load monitoring.

Technical data

| General data | |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Protection degree | IP20 |
| Total current load per potential | 2122910000: 12 A; 2122920000: 12 A; 2122930000: 12 A; 2122940000: 24 A; 2123050000: 12 A |
| Current load per contact point | 12 A |
| Connection data | |
| Connection system | PUSH IN |
| Number of terminals | 2 x 1.5 mm ² , 2 x 2.5 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367 |
| Note | |

Ordering data

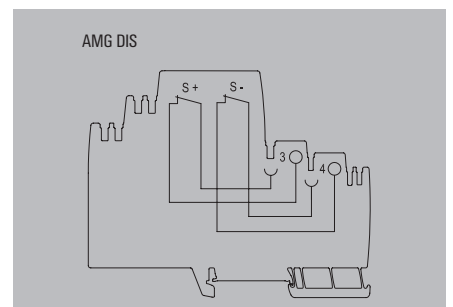
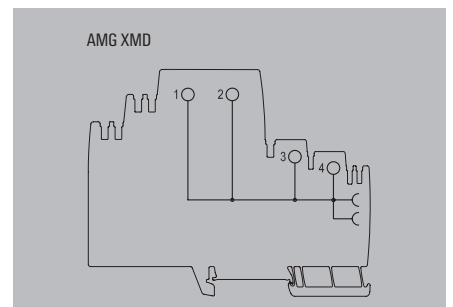
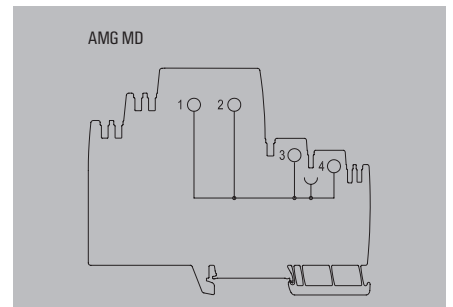
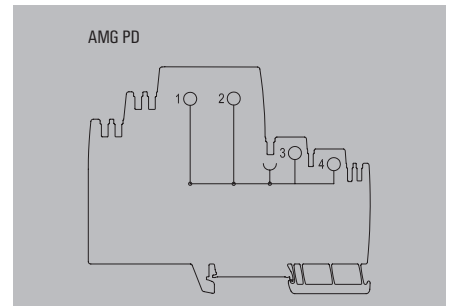
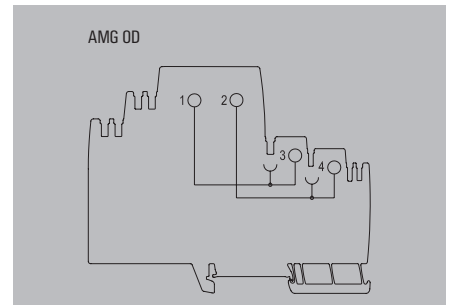
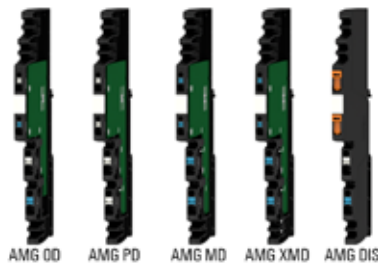
| Type | Qty. | Order No. |
|---------|------|------------|
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |
| AMG MD | 10 | 2122930000 |
| AMG XMD | 10 | 2122940000 |
| AMG DIS | 10 | 2123050000 |

Note

Accessories

| Pluggable cross-connection | |
|----------------------------|--------------|
| 50-pole | ZQV 4N/50 |
| 50-pole / red | ZQV 4N/50 RD |
| 50-pole / blue | ZQV 4N/50 BL |
| 2-pole | ZQV 4N/2 |
| 2-pole/ red | ZQV 4N/2 RD |
| 2-pole / blue | ZQV 4N/2 BL |
| Note | |

AMG



| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/50 | 5 | 1528130000 |
| ZQV 4N/50 RD | 5 | 2460730000 |
| ZQV 4N/50 BL | 5 | 1528240000 |
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/2 BL | 60 | 1528040000 |

Technical data

Machinery

Process

Energy

Transportation

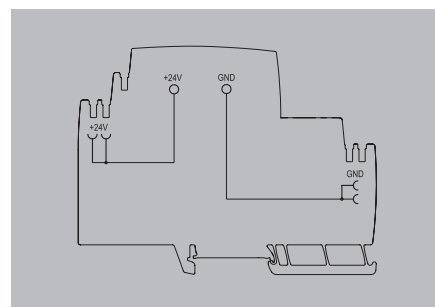
Device Manufacturers

Infrastructure

maxGUARD – power-feed module

Passive power-feed module

AMG FIM-0 Ex



Technical data

| Input | |
|----------------------------------------------|---------------------------------------------------------------------------------------|
| Input fuse (internal) | No |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | |
| Current consumption (full load) | |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | |
| General data | |
| Protection degree | IP20 |
| Control inputs | No |
| Overvoltage category | III |
| Connection data | |
| Number of terminals | 2 (+,-) |
| Wire cross-section, AWG/kcmil min/max | 18..6 |
| Wire cross-section, flexible min/max | 0.75...16 mm ² |
| Wire cross-section, rigid min/max | 0.75...10 mm ² |
| Screwdriver blade | 1.2 x 6.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEX |
| Note | |

Ordering data

| Rated current | Type | Qty. | Order No. |
|---------------|--------------|------|------------|
| | AMG FIM-0 EX | 1 | 2082530000 |
| Note | | | |

Technical data

Machinery

Process

Energy

Transportation

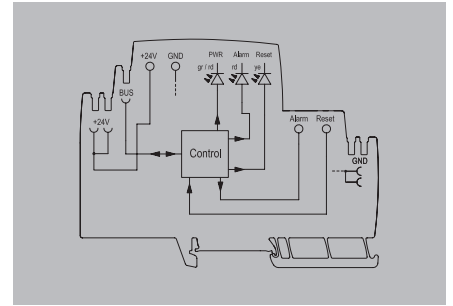
Device Manufacturers

Infrastructure

maxGUARD – power-feed module

Active power-feed module with reset and alarm function

AMG FIM-C Ex



Technical data

| |
|----------------------------------------------|
| Input |
| Input fuse (internal) |
| DC input voltage range |
| Rated input voltage |
| Current consumption (idle) |
| Current consumption (full load) |
| max. admissible residual ripple at the input |
| Surge protection |
| General data |
| Protection degree |
| Control inputs |
| Overvoltage category |
| Signalling |
| LED yellow |
| LED green |
| LED red |
| Transistor output, positive-switching |
| Connection data |
| Number of terminals |
| Wire cross-section, AWG/kcmil min/max |
| Wire cross-section, flexible min/max |
| Wire cross-section, rigid min/max |
| Screwdriver blade |
| Approvals |
| Approvals |
| Note |
| Ordering data |
| Rated current |
| Note |

| | | |
|---------------------------------------------------------------------------------------|-------------|------------------|
| No | | |
| 18...30 V DC | | |
| 24 V DC | | |
| 20 mA | | |
| 120 mA | | |
| 100 mVpp | | |
| Suppressor diode | | |
| IP20 | | |
| Reset | | |
| III | | |
| External reset is signalled, Alarm is signalled | | |
| Operating voltage OK | | |
| Alarm | | |
| Alarm | | |
| 2 (+,-) | | |
| 18...6 | | |
| 0.75...16 mm ² | | |
| 0.75...10 mm ² | | |
| 1.2 x 6.5 | | |
| CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx | | |
| Type | Qty. | Order No. |
| AMG FIM-C EX | 1 | 2082540000 |

Technical data

Machinery

Process

Energy

Transportation

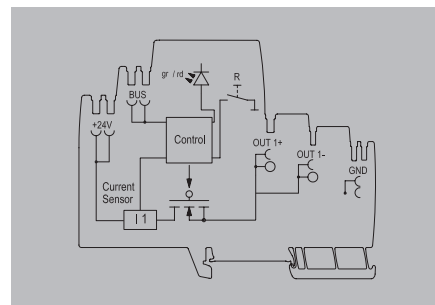
Device Manufacturers

Infrastructure

maxGUARD – load monitoring (fixed value)

Electronic load monitoring with fixed current (without I > 90% function)

AMG ELM - xF Ex



Technical data

| Input | |
|--------------------------------------------------------------|---------------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) / Current consumption (full load) | 25 mA / I _{OUT} +30 mA |
| max. admissible residual ripple at the input | 100 mVpp |

| Output | |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Switch-on delay | 1 s |
| Capacitive load | 2082040000: 10,000 µF; 2082050000: 10,000 µF; 2082060000: 10,000 µF; 2082310000: 15,000 µF |

Surge protection

| Function key | |
|-------------------|-------------------------|
| LED initial state | LED green, in operation |

Pressing the button

LED, subsequent state
Output, subsequent state

| General data | |
|------------------------------------------|------------|
| Relay to activate the output | No |
| Protection degree / Overvoltage category | IP20 / III |

| Signalling | |
|------------|----------------------------------------------------------------|
| LED green | LED flashing red, load monitoring has triggered (disconnected) |
| LED red | LED red (permanently lit) |

| Connection data | |
|---------------------------------------|----------------------------|
| Number of terminals | 2 (+ / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |

| Approvals | |
|-----------|---------------------------------------------------------------------------------------|
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx |

| Note | |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Operation (failure-free) Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) | |

Ordering data

| Rated current | |
|---------------|--|
| 1.00 A | |
| 2.00 A | |
| 4.00 A | |
| 6.00 A | |

| Note | |
|------|--|
| | |

Accessories

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |

| Note | |
|------|--|
| | |

| |
|---------------------------------|
| Yes |
| 18...30 V DC |
| 24 V DC |
| 25 mA / I _{OUT} +30 mA |
| 100 mVpp |

| |
|-----------------------------------------------------------------------------------------------------|
| PUSH IN |
| see characteristic curve |
| 1 s |
| 2082040000: 10,000 µF; 2082050000: 10,000 µF; 2082060000: 10,000 µF; 2082310000: 15,000 µF |
| Suppressor diode |

| | | |
|----------------------------------|----------------------------------------------------------------|---------------------------|
| LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
| > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
| Red LED switched off | Red LED switched off | LED green switched on |

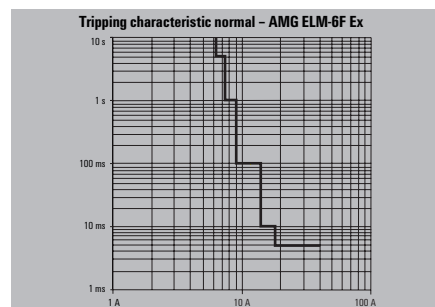
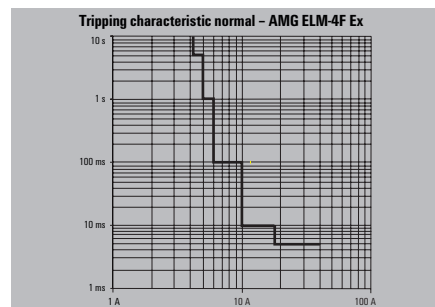
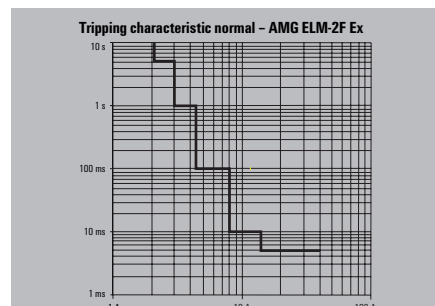
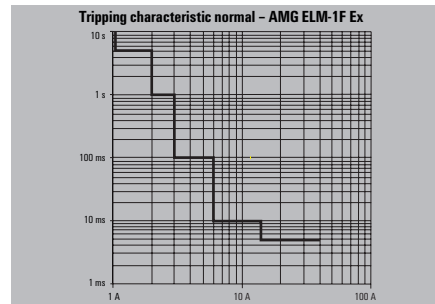
| |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| No |
| IP20 / III |
| Operation (failure-free) Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |

| |
|----------------------------|
| 2 (+ / -) |
| 26...12 |
| 0.14...2.5 mm ² |
| 0.14...2.5 mm ² |
| 0.6 x 3.5 |

| |
|---------------------------------------------------------------------------------------|
| CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx |
|---------------------------------------------------------------------------------------|

| Type | Qty. | Order No. |
|---------------|------|------------|
| AMG ELM-1F EX | 1 | 2082040000 |
| AMG ELM-2F EX | 1 | 2082050000 |
| AMG ELM-4F EX | 1 | 2082060000 |
| AMG ELM-6F EX | 1 | 2082310000 |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



maxGUARD – load monitoring (fixed value)

Electronic load monitoring with fixed rated current (without I > 90 % pre warning)

Technical data

Input

- Input fuse (internal)
- DC input voltage range
- Rated input voltage
- Current consumption (idle)
- Current consumption (full load)
- max. admissible residual ripple at the input
- Surge protection

Output

- Connection system
- Triggering characteristic
- Switch-on delay
- Capacitive load

Function key

LED initial state

Pressing the button

LED, subsequent state
Output, subsequent state

General data

- Relay to activate the output
- Protection degree
- Overvoltage category

Signalling

- LED green
- LED red

Connection data

- Number of terminals
- Wire cross-section, AWG/kcmil min/max
- Wire cross-section, flexible min/max
- Wire cross-section, rigid min/max
- Screwdriver blade

Approvals

Approvals

Note

Ordering data

Rated current

- 8.00 A
- 10.00 A

Note

Accessories

Type

Note

AMG ELM - xF Ex



Input

- Yes
- 18...30 V DC
- 24 V DC
- 25 mA
- I_{OUT} +30 mA
- 100 mVpp
- Suppressor diode

Output

- PUSH IN
- see characteristic curve
- 1 s
- 2082320000: 15,000 µF;
- 2082430000: 20,000 µF

| | | |
|-------------------------|----------------------------------------------------------------|---------------------------|
| LED green, in operation | LED flashing red, load monitoring has triggered (disconnected) | LED red (permanently lit) |
|-------------------------|----------------------------------------------------------------|---------------------------|

| | | |
|----------------------------------|----------------------------------|------------------------|
| > 0.1 to 2 s (manual disconnect) | > 0.1 to 2 s (confirm and reset) | > 0.1 to 2 s (restart) |
|----------------------------------|----------------------------------|------------------------|

| | | |
|----------------------|----------------------|-----------------------|
| Red LED switched off | Red LED switched off | LED green switched on |
|----------------------|----------------------|-----------------------|

Relay

No

Protection degree

IP20

Overvoltage category

III

Operation (failure-free)

- Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
- 4 (++) / -)
- 26...12
- 0.14...2.5 mm²
- 0.14...2.5 mm²
- 0.6 x 3.5

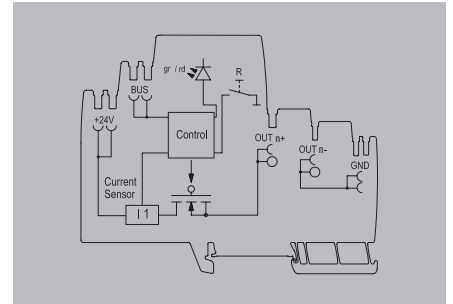
CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx

Type

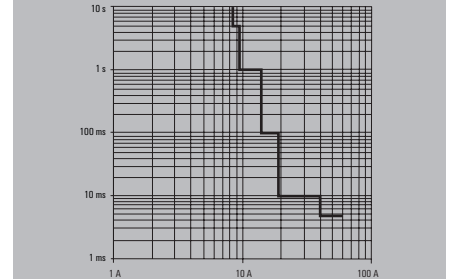
| Type | Qty. | Order No. |
|----------------|------|------------|
| AMG ELM-8F EX | 1 | 2082320000 |
| AMG ELM-10F EX | 1 | 2082430000 |

Type

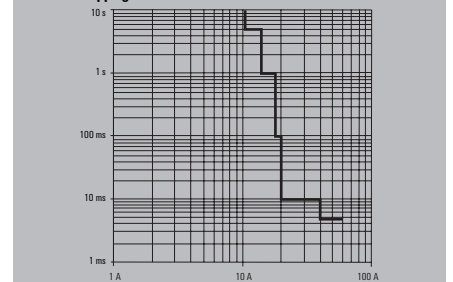
| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



Tripping characteristic normal – AMG ELM-8F Ex



Tripping characteristic normal – AMG ELM-10F Ex



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



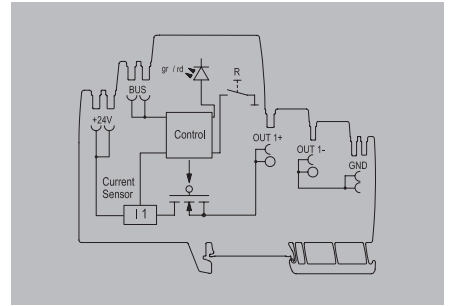
Infrastructure



maxGUARD – load monitoring adjustable

Electronic load monitoring with adjustable triggering current and triggering characteristic

AMG ELM-6 Ex

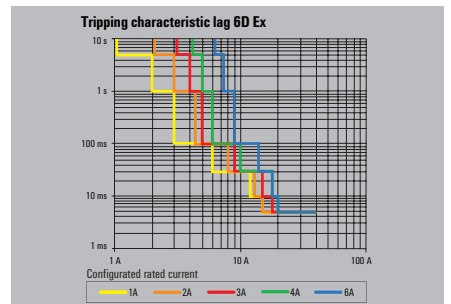
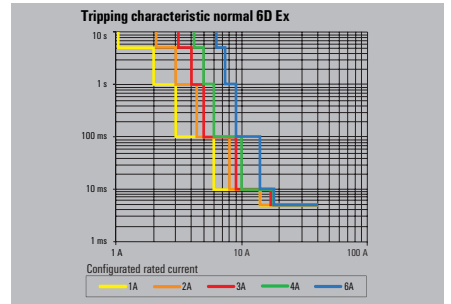


Technical data

| Input | |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Input fuse (internal) | Yes |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | I _{OUT} +30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Triggering characteristic | see characteristic curve |
| Backup modes | 1- 6 A |
| Switch-on delay | 1 s |
| Capacitive load | 15,000 µF |
| adjustable rated current | Yes |
| Surge protection | Suppressor diode |
| Function key | |
| LED initial state | LED green, in operation LED flashing red, load monitoring has triggered (disconnected) LED red (permanently lit) |
| Pressing the button | > 0.1 to 2 s (manual disconnect) > 0.1 to 2 s (confirm and reset) > 0.1 to 2 s (restart) |
| LED, subsequent state | Red LED switched off Red LED switched off LED green switched on |
| General data | |
| Relay to activate the output | No |
| Protection degree | IP20 |
| Overvoltage category | III |
| Signalling | |
| LED green | Operation (failure-free), Early warning: I _{Out} > 90% I _{Rated} (flashing) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
| Connection data | |
| Number of terminals | 2 (+ / -) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx |
| Note | |
| | |
| Ordering data | |
| Rated current | 6.00 A |
| Note | |
| | |
| Accessories | |
| | |
| Note | |
| | |

| Type | Qty. | Order No. |
|--------------|------|------------|
| AMG ELM-6 EX | 1 | 2082000000 |

| Type | Qty. | Order No. |
|---------|------|------------|
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – load monitoring adjustable

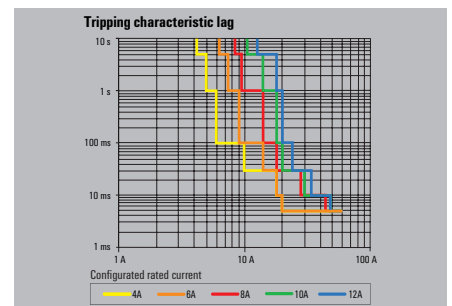
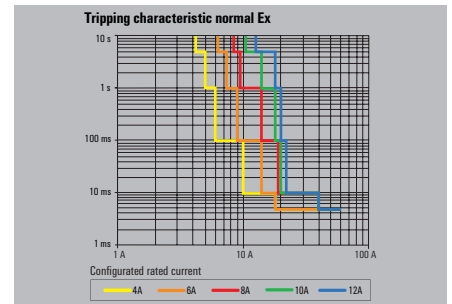
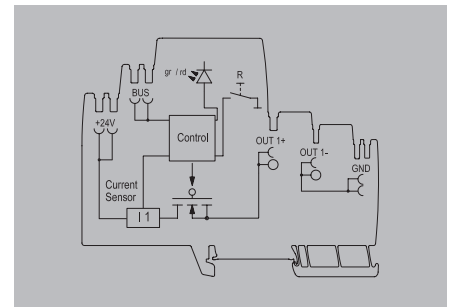
Electronic load monitoring with adjustable trigger current and characteristic (with $I > 90\%$ pre warning)

AMG ELM-12 Ex

Technical data

| Input | | |
|----------------------------------------------|---------------------------------------------------------------------------------------|------------|
| Input fuse (internal) | Yes | |
| DC input voltage range | 18...30 V DC | |
| Rated input voltage | 24 V DC | |
| Current consumption (idle) | 25 mA | |
| Current consumption (full load) | $I_{OUT} + 30$ mA | |
| max. admissible residual ripple at the input | 100 mVpp | |
| Output | | |
| Connection system | PUSH IN | |
| Triggering characteristic | see characteristic curve | |
| Backup modes | 4-12 A | |
| Switch-on delay | 1 s | |
| adjustable rated current | Yes | |
| Capacitive load | 20,000 μ F | |
| Surge protection | Suppressor diode | |
| Function key | | |
| LED initial state | LED green, in operation | |
| Pressing the button | > 0.1 to 2 s (manual disconnect) | |
| LED, subsequent state | LED flashing red, load monitoring has triggered (disconnected) | |
| Output, subsequent state | LED red (permanently lit) | |
| General data | | |
| Relay to activate the output | No | |
| Protection degree | IP20 | |
| Overvoltage category | III | |
| Signalling | | |
| LED green | LED green | |
| LED red | LED red | |
| Connection data | | |
| Number of terminals | 4 (++ / -) | |
| Wire cross-section, AWG/kcmil min/max | 26...12 | |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² | |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² | |
| Screwdriver blade | 0.6 x 3.5 | |
| Approvals | | |
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx | |
| Note | | |
| | | |
| Ordering data | | |
| Rated current | 12.00 A | |
| Note | | |
| Accessories | | |
| Type | Qty. | Order No. |
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |
| Note | | |

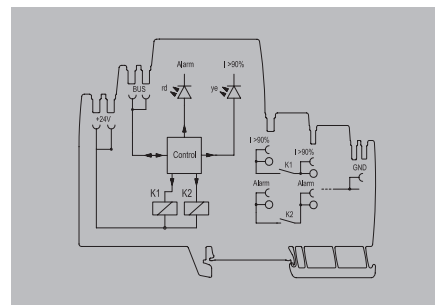
| Type | Qty. | Order No. |
|---------------|------|------------|
| AMG ELM-12 EX | 1 | 2082010000 |
| Type | Qty. | Order No. |
| AMG DIS | 10 | 2123050000 |
| AMG MD | 10 | 2122930000 |
| AMG OD | 10 | 2122910000 |
| AMG PD | 10 | 2122920000 |



maxGUARD – Alarm module

Alarm module with potential-free contacts for the “Alarm” and “I>90%” signals.

AMG AM CO



Technical data

| Input | |
|----------------------------------------------|---------------------------------------------------------------------------------------|
| Input fuse (internal) | No |
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | 30 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Surge protection | Suppressor diode |
| General data | |
| Protection degree | IP20 |
| Overvoltage category | III |
| Signalling | |
| LED yellow | Current > 90% Inom (flashing) |
| LED red | Alarm |
| Floating contact | Yes |
| Status relay (max. load) | Alarm (24 V / 0.1 A), I > 90% (24 V / 0.1 A) |
| Connection data | |
| Number of terminals | 4 (2x NO) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEX |

| Input | | |
|----------------------------------------------|---------------------------------------------------------------------------------------|--|
| Input fuse (internal) | No | |
| DC input voltage range | 18...30 V DC | |
| Rated input voltage | 24 V DC | |
| Current consumption (idle) | 25 mA | |
| Current consumption (full load) | 30 mA | |
| max. admissible residual ripple at the input | 100 mVpp | |
| Surge protection | Suppressor diode | |
| General data | | |
| Protection degree | IP20 | |
| Overvoltage category | III | |
| Signalling | | |
| LED yellow | Current > 90% Inom (flashing) | |
| LED red | Alarm | |
| Floating contact | Yes | |
| Status relay (max. load) | Alarm (24 V / 0.1 A), I > 90% (24 V / 0.1 A) | |
| Connection data | | |
| Number of terminals | 4 (2x NO) | |
| Wire cross-section, AWG/kcmil min/max | 26...12 | |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² | |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² | |
| Screwdriver blade | 0.6 x 3.5 | |
| Approvals | | |
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEX | |

| Note | |
|------|--|
|------|--|

| Note | | |
|------|--|--|
|------|--|--|

Ordering data

| Rated current | |
|---------------|--|
| Note | |

| Type | Qty. | Order No. |
|-----------|------|------------|
| AMG AM CO | 1 | 2082770000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|--|
| 50-pole | |
| 50-pole / red | |
| 50-pole / blue | |
| 2-pole | |
| 2-pole/ red | |
| 2-pole / blue | |
| Note | |

| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/50 | 5 | 1528130000 |
| ZQV 4N/50 RD | 5 | 2460730000 |
| ZQV 4N/50 BL | 5 | 1528240000 |
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/2 BL | 60 | 1528040000 |

Technical data

Machinery

Process

Energy

Transportation

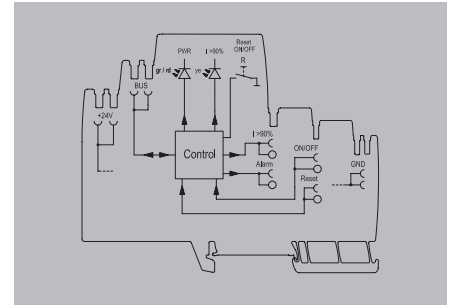
Device Manufacturers

Infrastructure

maxGUARD – control module

Control module with extended control function: Alarm, Reset, I>90%, ON/OFF

AMG CM Ex



Technical data

| Input | |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| DC input voltage range | 18...30 V DC |
| Rated input voltage | 24 V DC |
| Current consumption (idle) | 25 mA |
| Current consumption (full load) | 225 mA |
| max. admissible residual ripple at the input | 100 mVpp |
| Output | |
| Connection system | PUSH IN |
| Surge protection | Suppressor diode |
| General data | |
| Relay to activate the output | No |
| Protection degree | IP20 |
| Control inputs | ON/ OFF, Reset |
| Overvoltage category | III |
| Signalling | |
| LED green | Operation (failure-free), Early warning: I Out > 90% I Rated (flashing) |
| LED red | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
| Transistor output, positive-switching | Pre-warning, Alarm |
| Connection data | |
| Number of terminals | 2 (Reset / ON) |
| Wire cross-section, AWG/kcmil min/max | 26...12 |
| Wire cross-section, flexible min/max | 0.14...2.5 mm ² |
| Wire cross-section, rigid min/max | 0.14...2.5 mm ² |
| Screwdriver blade | 0.6 x 3.5 |
| Approvals | |
| Approvals | CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx |
| Note | |

Ordering data

| Rated current | |
|---------------|--|
| Note | |

| Type | Qty. | Order No. |
|-----------|------|------------|
| AMG CM EX | 1 | 2083360000 |

Accessories

| Pluggable cross-connection | |
|----------------------------|--|
| 50-pole | |
| 50-pole / red | |
| 50-pole / blue | |
| 2-pole | |
| 2-pole/ red | |
| 2-pole / blue | |
| Note | |

| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/50 | 5 | 1528130000 |
| ZQV 4N/50 RD | 5 | 2460730000 |
| ZQV 4N/50 BL | 5 | 1528240000 |
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/2 BL | 60 | 1528040000 |

Technical data

Machinery

Process

Energy

Transportation

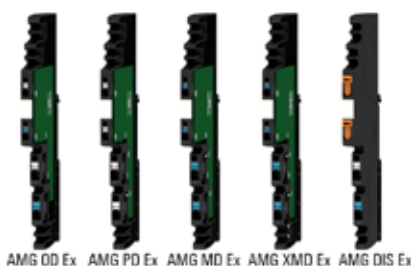
Device Manufacturers

Infrastructure

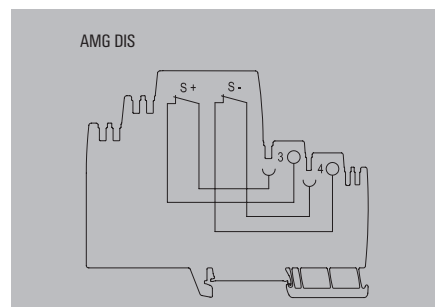
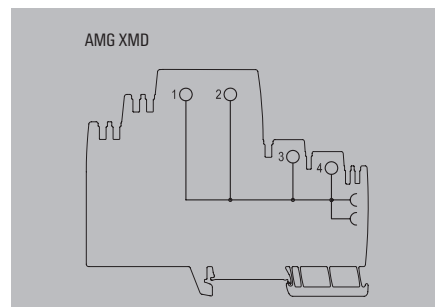
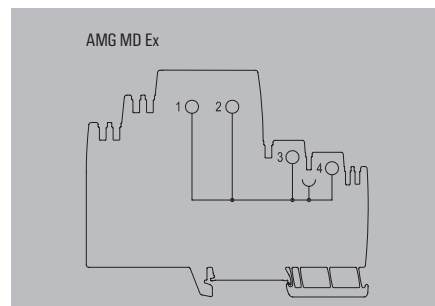
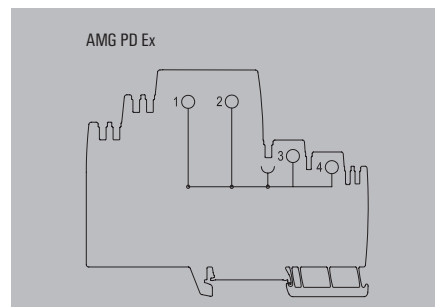
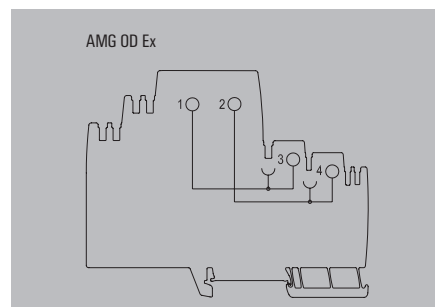
maxGUARD – Potential distributor

Potential distribution in combination with the electronic load monitoring.

AMG



AMG OD Ex AMG PD Ex AMG MD Ex AMG XMD Ex AMG DIS Ex



Technical data

General data

Protection degree
Total current load per potential

IP20

2495090000: 12 A;
2495070000: 12 A;
2495040000: 12 A;
2495080000: 24 A;
2495100000: 12 A

Current load per contact point

12 A

Connection data

Connection system
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade

PUSH IN
2 x 1.5 mm², 2 x 2.5 mm²
26...12
0.14...2.5 mm²
0.14...2.5 mm²
0.6 x 3.5

Approvals

Approvals
CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx

Note

Ordering data

| Type | Qty. | Order No. |
|------------|------|------------|
| AMG OD EX | 1 | 2495090000 |
| AMG PD EX | 1 | 2495070000 |
| AMG MD EX | 10 | 2495040000 |
| AMG XMD EX | 1 | 2495080000 |
| AMG DIS EX | 1 | 2495100000 |

Note

Accessories

| Pluggable cross-connection | |
|----------------------------|--|
| 50-pole | |
| 50-pole / red | |
| 50-pole / blue | |
| 2-pole | |
| 2-pole / red | |
| 2-pole / blue | |

| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/50 | 5 | 1528130000 |
| ZQV 4N/50 RD | 5 | 2460730000 |
| ZQV 4N/50 BL | 5 | 1528240000 |
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/2 BL | 60 | 1528040000 |

Note

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – accessories

Cross-connector orange



| Type | Qty. | Order No. |
|-----------|------|------------|
| ZQV 4N/2 | 60 | 1527930000 |
| ZQV 4N/3 | 60 | 1527940000 |
| ZQV 4N/4 | 60 | 1527970000 |
| ZQV 4N/5 | 60 | 1527980000 |
| ZQV 4N/6 | 20 | 1527990000 |
| ZQV 4N/7 | 20 | 1528020000 |
| ZQV 4N/8 | 20 | 1528030000 |
| ZQV 4N/9 | 20 | 1528070000 |
| ZQV 4N/10 | 20 | 1528090000 |
| ZQV 4N/50 | 5 | 1528130000 |

Cross-connector blue



| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/2 BL | 60 | 1528040000 |
| ZQV 4N/3 BL | 60 | 1528080000 |
| ZQV 4N/4 BL | 60 | 1528120000 |
| ZQV 4N/5 BL | 60 | 1528140000 |
| ZQV 4N/6 BL | 20 | 1528170000 |
| ZQV 4N/7 BL | 20 | 1528180000 |
| ZQV 4N/8 BL | 20 | 1528190000 |
| ZQV 4N/9 BL | 20 | 1528220000 |
| ZQV 4N/10 BL | 20 | 1528230000 |
| ZQV 4N/50 BL | 5 | 1528240000 |

Cross-connector red



| Type | Qty. | Order No. |
|--------------|------|------------|
| ZQV 4N/2 RD | 60 | 2460450000 |
| ZQV 4N/3 RD | 60 | 2460810000 |
| ZQV 4N/4 RD | 60 | 2460800000 |
| ZQV 4N/5 RD | 60 | 2460790000 |
| ZQV 4N/6 RD | 20 | 2460780000 |
| ZQV 4N/7 RD | 20 | 2460770000 |
| ZQV 4N/8 RD | 20 | 2460760000 |
| ZQV 4N/9 RD | 20 | 2460750000 |
| ZQV 4N/10 RD | 20 | 2460740000 |
| ZQV 4N/50 RD | 5 | 2460730000 |

maxGUARD – accessories

End plate and Separation plate



| Type | Qty. | Order No. |
|------------|------|------------|
| AMG PP | 40 | 2123000000 |
| AMG EP | 30 | 2495380000 |
| AMG EP KIT | 1 | 2500760000 |

End brackets



| Type | Qty. | Order No. |
|-------------------|------|------------|
| WEW 35/2 SW | 100 | 1061210000 |
| WEW 35/2 V0 GF SW | 100 | 1479000000 |

Cutting tool for ZQV



| Type | Qty. | Order No. |
|-------|------|------------|
| KT 14 | 1 | 1157820000 |



IO-Link module

- Connection for 4 IO-Link devices
- IO-Link standard according to IEC 61131-9
- Protocol support IO-Link v.1.0 and v.1.1
- Automatic communication via COM 1, COM 2 and COM 3
- Max. 20 m wire length
- Internal data width 4-32 bytes, configurable

UR20-4COM-IO-LINK



Technical data

| System data | |
|-----------------------------------------------------------------------------------|---------------------------------------|
| Interface | u-remote system bus |
| Transmission speed of system bus, max. | 48 |
| Galvanic isolation | 500 V DC between the current paths |
| Supply | |
| Supply voltage | 24 V DC +20%/-15%, via the system bus |
| Current consumption I _m (power segment of the field bus coupler), typ. | 8 mA |
| Current consumption I _m (the respective power segment) | 25 mA + sensor feed |
| IO-Link-Interface | |
| Number | 4 |
| Connection type | IO-Link |
| Output current | 0.1 A C/Q (DO MODE), 0.5 A L+ |
| IO link standard | IEC 61131-9 |
| Short-circuit-proof | Yes |
| Module diagnosis | Yes |
| Individual channel diagnosis | Yes |
| Class | A |
| Digital inputs | |
| Number | 4 |
| Type | Types 1 and 3, EN 61131-2 |
| Input voltage, low | < 5 V |
| Input voltage, high | > 11 V |
| General data | |
| Weight | 88 g |
| Dimensions H x W x D | 120 / 11.5 / 76 mm |
| Note | |

| Type | | |
|-------------------|--------|----------------------|
| UR20-4COM-IO-LINK | Qty. 1 | Order No. 1315740000 |
| Note | | |

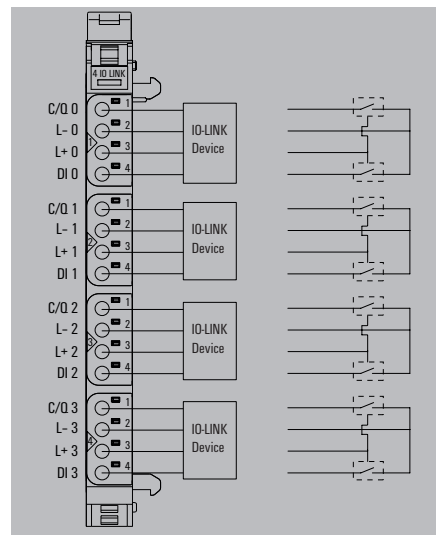
Ordering data

| Module variants | |
|------------------------------------------|--|
| Digital communication module, 4 channels | |
| Note | |

Accessories

| Replacement parts | |
|-------------------------------------------------------------|-----------------------|
| Electronic module | UR20-EM-1315740000-SP |
| Basic module | UR20-BM-SP |
| Plug-in connector unit | UR20-PK-1315740000-SP |
| Note | |
| 1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty. | |

| Type | Qty. | Order No. |
|-----------------------|------|------------|
| KOSM BHZ5.00 | 100 | 1483050000 |
| UR20-EBK-ACC | 5 | 1346610000 |
| UR20-SM-ACC | 20 | 1339920000 |
| PM 2.7/2.6 MC SDR | 192 | 1323700000 |
| PM 2.7/2.6 MC NE WS | 960 | 1323710000 |
| DEK 5/8-11.5 MC SDR | 100 | 1341610000 |
| DEK 5/8-11.5 MC NE WS | 500 | 1341630000 |
| THM UR20 GE | 1 | 1429910000 |
| THM UR20 WS | 1 | 1429420000 |
| ESO UR20 DIN A4 WS | 10 | 1429430000 |



| | |
|-----------------------|-----------------------------|
| Product standard | IEC 61131-2, IEC61010-2-201 |
| EMC | EN 61000 |
| ATEX (in preparation) | EN 60079 |
| UL (in preparation) | UL 61010-2-201 |
| MSIP (in preparation) | MSIP-REM-WMG-1315740000 |



Let's connect.

ModbusTCP V2

- Dual LAN mode
- 2 x 10 A current paths
- Various Modbus services
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-MOD-TCP-V2



Technical data

| System data | |
|-----------------------------------------------------------------------------------|-------------------------------------------------|
| Connection type | 2 x RJ45 plug-in connectors |
| Field bus protocol | Modbus/TCP |
| Process data | 8 kByte |
| Parameter data | 1024 Byte |
| Diagnostic data | 1024 Byte |
| max. number of modules | 64 |
| Configuration interface | Micro USB 2.0 |
| Fieldbus interface | Full / Half Duplex, Auto MDI/X, Autonegotiation |
| Transmission rate of field bus, max. | 100 Mbit/s |
| Transmission speed of system bus, max. | 48 Mbit/s |
| Supply | |
| Supply voltage system and inputs | 24 V DC +20%/ -15% |
| Supply voltage for outputs | 24 V DC +20%/ -15% |
| Feed current for I _{in} (input current path) , max. | 10 A |
| Feed current for I _{out} (output current path) , max. | 10 A |
| Current consumption I _m (power segment of the field bus coupler), typ. | 112 mA |
| General data | |
| Weight | 319 g |
| Dimensions H x W x D | 120 mm / 52 mm / 76 mm |
| Note | |

| | | | | |
|--------------------|------------------------|------|------|--------|
| 24 V DC +20%/ -15% | 24 V DC +20%/ -15% | 10 A | 10 A | 112 mA |
| 319 g | 120 mm / 52 mm / 76 mm | | | |

Ordering data

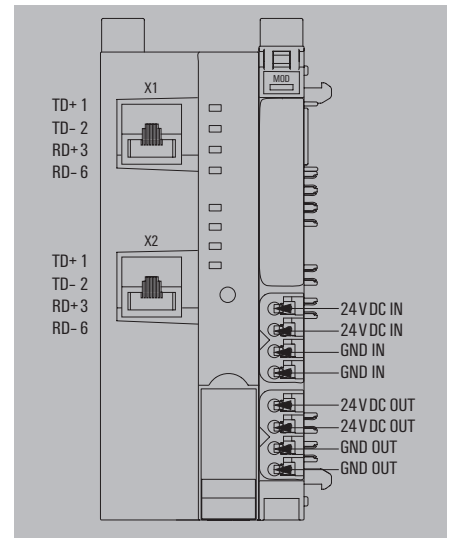
| Module variants | |
|-----------------|------------------------------|
| | Field bus coupler, ModbusTCP |
| Note | |

| Type | Qty. | Order No. |
|---------------------------------------------------------------------|------|------------|
| UR20-FBC-MOD-TCP-V2 | 1 | 2476450000 |
| A termination kit (UR20-EBK-ACC) is included in the coupler package | | |

Accessories

| Coding elements | |
|----------------------------------------------|------------------------|
| Termination kit | |
| Swivel marker | |
| Connection marker for pusher custom printing | |
| Connection marker for pusher neutral | |
| Module marker for custom printing | |
| Module marker for neutral | |
| Thermotransfer version (Material: Polyester) | |
| Thermotransfer version (material: polyester) | |
| Paper version for Laserprinter | |
| USB cable (USB A to Micro USB) | |
| Replacement parts | |
| | Plug-in connector unit |
| Note | |

| Type | Qty. | Order No. |
|-------------------------------------------------------------|------|------------|
| KOSM BHZ5.00 | 100 | 1483050000 |
| UR20-EBK-ACC | 5 | 1346610000 |
| UR20-SM-ACC | 20 | 1339920000 |
| PM 2.7/2.6 MC SDR | 192 | 1323700000 |
| PM 2.7/2.6 MC NE WS | 960 | 1323710000 |
| DEK 5/8-11.5 MC SDR | 100 | 1341610000 |
| DEK 5/8-11.5 MC NE WS | 500 | 1341630000 |
| THM UR20 GE | 1 | 1429910000 |
| THM UR20 WS | 1 | 1429420000 |
| ESD UR20 DIN A4 WS | 10 | 1429430000 |
| IE-USB-A-MICRO-1.8M | 1 | 1487980000 |
| Replacement parts | | |
| UR20-PK-2476450000-SP | 5 | 2485280000 |
| 1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty. | | |



| | |
|-----------------------|-----------------------------|
| Product standard | IEC 61131-2, IEC61010-2-201 |
| EMC | EN 61000 |
| ATEX (in preparation) | EN 60079 |
| UL (in preparation) | UL 61010-2-201 |
| MSIP (in preparation) | MSIP-REM-WMG-2476450000 |



Let's connect.

Approvals for the use in marine- and offshore-applications

u-remote has been approved for use in the maritime and offshore sector: DNV GL (formerly Det Norske Veritas and Germanischer Lloyd), Bureau Veritas (BV), Lloyds Register (LR) and Registro Italiano Navale (RINA) are the first international classification societies to certify the use of the innovative remote I/O system in this demanding environment. The certification is valid for almost all areas on a ship, including the ship's bridge, which is subject to particularly high demands.

u-remote's robust design is suited to both the sensitive and harsh environmental conditions found on a ship, as well as a wide range of temperatures (-20°C to 60°C). It can withstand high levels of humidity (up to 100%), intense vibration (up to 4 g) and high-energy electromagnetic fields, without emitting high levels of radiation that could affect other devices.

| Type | Order No. | DNV/GL | BV | LR | RINA | ABS |
|-------------------------|--------------------------------------------|--------|----|----|------|-----|
| UR20-FBC-PB-DP | 1334870000 | x* | x* | x* | x* | x* |
| UR20-FBC-PN-IRT | 1334880000 | x* | x* | x* | x* | x* |
| UR20-FBC-EC | 1334910000 | x | x | x | x | x* |
| UR20-FBC-MOD-TCP | 1334930000 | | | | | |
| UR20-FBC-MOD-TCP-V2 | 2476450000 | x | x | x | x | x* |
| UR20-FBC-DN | 1334900000 | x* | x* | x* | x* | x* |
| UR20-FBC-CAN | 1334890000 | x | x | x | x | x* |
| UR20-FBC-EIP | 1334920000 | x* | x* | x* | x* | x* |
| UR20-FBC-PL | 1334940000 | x | x | x | x | x* |
| UR20-4DI-P | 1315170000 | x | x | x | x | x* |
| UR20-8DI-P-2W | 1315180000 | x | x | x | x | x* |
| UR20-8DI-P-3W | 1394400000 | x | x | x | x | x* |
| UR20-16DI-P | 1315200000 | x | x | x | x | x* |
| UR20-16DI-P-PLC-INT | 1315210000 | x | x | x | x | x* |
| UR20-4DI-P-TS | 1460150000 | x | x | x | x | x* |
| UR20-4DI-N | 1315350000 | x | x | x | x | x* |
| UR20-8DI-N-3W | 1315370000 | x | x | x | x | x* |
| UR20-16DI-N | 1315390000 | x | x | x | x | x* |
| UR20-16DI-N-PLC-INT | 1315400000 | x | x | x | x | x* |
| UR20-4DI-2W-230V-AC | 1550070000 | x | x | x | x | x* |
| UR20-4DO-P | 1315220000 | x | x | x | x | x* |
| UR20-4DO-P-2A | 1315230000 | x | x | x | x | x* |
| UR20-4DO-PN-2A | 1394420000 | x | x | x | x | x* |
| UR20-8DO-P | 1315240000 | x | x | x | x | x* |
| UR20-16DO-P | 1315250000 | x | x | x | x | x* |
| UR20-16DO-P-PLC-INT | 1315270000 | x | x | x | x | x* |
| UR20-4DO-N | 1315410000 | x | x | x | x | x* |
| UR20-4DO-N-2A | 1315420000 | x* | x* | x* | x* | x* |
| UR20-8DO-N | 1315430000 | x | x | x | x | x* |
| UR20-16DO-N | 1315440000 | x | x | x | x | x* |
| UR20-16DO-N-PLC-INT | 1315450000 | x | x | x | x | x* |
| UR20-4RO-SSR-255 | 1315540000 | x | x | x | x | x* |
| UR20-4RO-CO-255 | 1315550000 | x | x | x | x | x* |
| UR20-1CNT-100-100 | 1315570000 | x | x | x | x | x* |
| UR20-1CNT-500 | 1315580000 | x* | x* | x* | x* | x* |
| UR20-2CNT-100 | 1315590000 | x* | x* | x* | x* | x* |
| UR20-2FCNT-100 | 1508080000 | x* | x* | x* | x* | x* |
| UR20-1SSI | 1508090000 | x* | x* | x* | x* | x* |
| UR20-1COM-232-422-485 | 1315750000 | x | x | x | x | x* |
| UR20-2PWM-PN-0.5A | 1315600000 | | | | | |
| UR20-2PWM-PN-2A | 1315610000 | | | | | |
| UR20-4AI-UI-12 | 1394390000 | x* | x* | x* | x* | x* |
| UR20-4AI-UI-16 | 1315620000 | x* | x* | x* | x* | x* |
| UR20-4AI-UI-16-DIAG | 1315690000 | x* | x* | x* | x* | x* |
| UR20-4AI-UI-DIF-16-DIAG | 1993880000 | x* | x* | x* | x* | x* |
| UR20-8AI-I-PLC-INT | 1315670000 | x* | x* | x* | x* | x* |
| UR20-2AI-SG-24-DIAG | 1990070000 | x* | x* | x* | x* | x* |
| UR20-4AI-TC-DIAG | 1315710000 | x | x | x | x | x* |
| UR20-4AI-RTD-DIAG | 1315700000 | x | x | x | x | x* |
| UR20-3EM-230V-AC | 2007420000 | x* | x* | x* | x* | x* |
| UR20-4AO-UI-16-M | 2453880000 | x* | x* | x* | x* | x* |
| UR20-4AO-UI-16-M-DIAG | 2453870000 | x* | x* | x* | x* | x* |
| UR20-PF-I | 1334710000 | x | x | x | x | x* |
| UR20-PF-O | 1334740000 | x | x | x | x | x* |
| UR20-PF-O-1DI-SIL | 1335030000 | x* | x* | x* | x* | x* |
| UR20-PF-O-2DI-DELAY-SIL | 1335040000 | x* | x* | x* | x* | x* |
| UR20-PF-O-2DI-SIL | 1335050000 | x* | x* | x* | x* | x* |
| UR20-16AUX-I | 1334770000 | x | x | x | x | x* |
| UR20-16AUX-O | 1334780000 | x | x | x | x | x* |
| UR20-16AUX-FE | 1334790000 | x | x | x | x | x* |
| UR20-16AUX-GND-I | 1334800000 | x | x | x | x | x* |
| UR20-16AUX-GND-O | 1334810000 | x | x | x | x | x* |
| UR20-ES | 1315770000 | x* | x* | x* | x* | x* |
| Hinweis | * Approval is only available as of Q3/2017 | | | | | |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

POWERLINK

- 2 x 10 A current paths
- Address can be set using rotary switch
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-PL



Technical data

| System data | |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Connection type | 2 x RJ45 plug-in connectors |
| Field bus protocol | POWERLINK |
| Process data | 2980 Byte |
| Parameter data | 4 kByte |
| Diagnostic data | 3008 Byte |
| max. number of modules | 64 |
| Configuration interface | Micro USB 2.0 |
| Transmission rate of field bus, max. | 100 Mbit/s |
| Transmission speed of system bus, max. | 48 Mbit/s |
| Supply | |
| Supply voltage system and inputs | 24 V DC +20%/-15% |
| Supply voltage for outputs | 24 V DC +20%/-15% |
| Feed current for I _{IN} (input current path) , max. | 10 A |
| Feed current for I _{OUT} (output current path) , max. | 10 A |
| Current consumption I _{IN} (power segment of the field bus coupler), typ. | 100 mA |
| General data | |
| Weight | 318 g |
| Dimensions H x W x D | 120 mm / 52 mm / 76 mm |
| Note | Download of XDD-files on www.weidmueller.com |

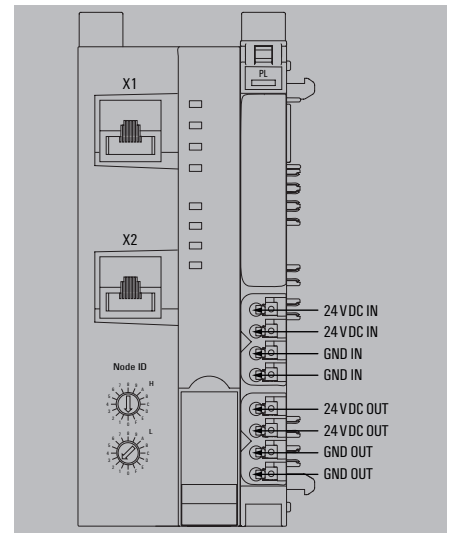
Ordering data

| Module variants | |
|-----------------|---------------------------------------------------------------------|
| Note | A termination kit (UR20-EBK-ACC) is included in the coupler package |

Accessories

| Type | Qty. | Order No. |
|----------------------------------------------|------|------------|
| Coding elements | 100 | 1483050000 |
| Termination kit | 5 | 1346610000 |
| Swivel marker | 20 | 1339920000 |
| Connection marker for pusher custom printing | 192 | 1323700000 |
| Connection marker for pusher neutral | 960 | 1323710000 |
| Module marker for custom printing | 100 | 1341610000 |
| Module marker for neutral | 500 | 1341630000 |
| Thermotransfer version (Material: Polyester) | 1 | 1429910000 |
| Thermotransfer version (material: polyester) | 1 | 1429420000 |
| Paper version for Laserprinter | 10 | 1429430000 |
| USB cable (USB A to Micro USB) | 1 | 1487980000 |
| Replacement parts | | |
| Plug-in connector unit | 5 | 2425170000 |
| Note | | |

| Type | Qty. | Order No. |
|---------------------------------------------------------------------|------|------------|
| UR20-FBC-PL | 1 | 1334940000 |
| A termination kit (UR20-EBK-ACC) is included in the coupler package | | |
| Type | Qty. | Order No. |
| KOSM BHZ5.00 | 100 | 1483050000 |
| UR20-EBK-ACC | 5 | 1346610000 |
| UR20-SM-ACC | 20 | 1339920000 |
| PM 2.7/2.6 MC SDR | 192 | 1323700000 |
| PM 2.7/2.6 MC NE WS | 960 | 1323710000 |
| DEK 5/8-11.5 MC SDR | 100 | 1341610000 |
| DEK 5/8-11.5 MC NE WS | 500 | 1341630000 |
| THM UR20 GE | 1 | 1429910000 |
| THM UR20 WS | 1 | 1429420000 |
| ESO UR20 DIN A4 WS | 10 | 1429430000 |
| IE-USB-A-MICRO-1.8M | 1 | 1487980000 |
| UR20-PK-1334940000-SP | 5 | 2425170000 |



| | |
|-----------------------|-----------------------------|
| Product standard | IEC 61131-2, IEC61010-2-201 |
| EMC | EN 61000 |
| ATEX (in preparation) | EN 60079 |
| UL (in preparation) | UL 61010-2-201 |
| MSIP (in preparation) | MSIP-REM-WMG-1334940000 |



Let's connect.

2AI-SG-24-DIAG

- 2 differential inputs for DMS
- 24-bit resolution
- 4- or 6-wire connection
- Accuracy ±0.01% FSR
- Individual channel diagnosis

Technical data

| System data | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Interface | u-remote system bus |
| Transmission speed of system bus, max. | 48 Mbit |
| Galvanic isolation | 500 V DC between the current paths |
| Supply | |
| Supply voltage | 24 V DC +20%/-15%, via the system bus |
| Current consumption I _m (power segment of the field bus coupler), typ. | 8 mA |
| Current consumption I _m (the respective power segment) | 35 mA |
| Analogue inputs | |
| Number | 2 |
| Input value | Differential, to evaluate a strain gauge full-bridge |
| Resolution | 24 bit per channel |
| Accuracy | Customer calibration: ±0.01% FSR (100 ppm), ±1% FSR (with interference) |
| Supported sensor sensitivity | 0.5 mV - 30 V, parameterisable |
| Temperature coefficient | < 5 ppm/K |
| Permissible sensor load | 85 ... 5000 Ω |
| Conversion time | 5 - 800 ms, parameterisable |
| Measurement range | ± 150 mV |
| Module diagnosis | Yes |
| Individual channel diagnosis | Yes |
| Short-circuit-proof | Yes |
| Digital inputs | |
| Input filter | 10 ms |
| Input voltage, high | > 11 V |
| Input voltage, low | < 5 V |
| Individual channel diagnosis | Yes |
| Short-circuit-proof | Yes |
| Module diagnosis | Yes |
| Type | Types 1 and 3, EN 61131-2 |
| General data | |
| Weight | 89.7 g |
| Dimensions H x W x D | 11.5 mm / 120 mm / 76 mm |
| Note | |

Ordering data

| Module variants | |
|-----------------|---------------------------------|
| | Strain gauge module, 2 channels |
| Note | |

Accessories

| | Coding elements |
|----------------------------------------------|------------------------|
| | Termination kit |
| | Swivel marker |
| Connection marker for pusher custom printing | |
| Connection marker for pusher neutral | |
| Module marker for custom printing | |
| Module marker for neutral | |
| Thermotransfer version (Material: Polyester) | |
| Thermotransfer version (material: polyester) | |
| Paper version for Laserprinter | |
| Replacement parts | |
| | Electronic module |
| | Basic module |
| | Plug-in connector unit |
| Note | |

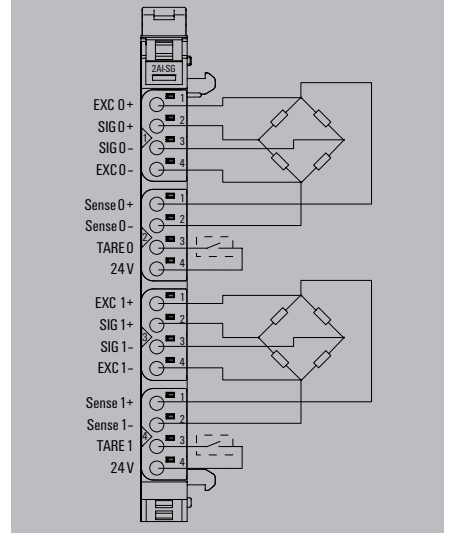
UR20-2AI-SG-24-DIAG



| System data | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Interface | u-remote system bus |
| Transmission speed of system bus, max. | 48 Mbit |
| Galvanic isolation | 500 V DC between the current paths |
| Supply | |
| Supply voltage | 24 V DC +20%/-15%, via the system bus |
| Current consumption I _m (power segment of the field bus coupler), typ. | 8 mA |
| Current consumption I _m (the respective power segment) | 35 mA |
| Analogue inputs | |
| Number | 2 |
| Input value | Differential, to evaluate a strain gauge full-bridge |
| Resolution | 24 bit per channel |
| Accuracy | Customer calibration: ±0.01% FSR (100 ppm), ±1% FSR (with interference) |
| Supported sensor sensitivity | 0.5 mV - 30 V, parameterisable |
| Temperature coefficient | < 5 ppm/K |
| Permissible sensor load | 85 ... 5000 Ω |
| Conversion time | 5 - 800 ms, parameterisable |
| Measurement range | ± 150 mV |
| Module diagnosis | Yes |
| Individual channel diagnosis | Yes |
| Short-circuit-proof | Yes |
| Digital inputs | |
| Input filter | 10 ms |
| Input voltage, high | > 11 V |
| Input voltage, low | < 5 V |
| Individual channel diagnosis | Yes |
| Short-circuit-proof | Yes |
| Module diagnosis | Yes |
| Type | Types 1 and 3, EN 61131-2 |
| General data | |
| Weight | 89.7 g |
| Dimensions H x W x D | 11.5 mm / 120 mm / 76 mm |
| Note | |

| Type | Qty. | Order No. |
|---------------------|------|------------|
| UR20-2AI-SG-24-DIAG | 1 | 1990070000 |

| Type | Qty. | Order No. |
|-----------------------|------|------------|
| KOSM BHZ5.00 | 100 | 1483050000 |
| UR20-EBK-ACC | 5 | 1346610000 |
| UR20-SM-ACC | 20 | 1339920000 |
| PM 2.7/2.6 MC SDR | 192 | 1323700000 |
| PM 2.7/2.6 MC NE WS | 960 | 1323710000 |
| DEK 5/8-11.5 MC SDR | 100 | 1341610000 |
| DEK 5/8-11.5 MC NE WS | 500 | 1341630000 |
| THM UR20 GE | 1 | 1429910000 |
| THM UR20 WS | 1 | 1429420000 |
| ESO UR20 DIN A4 WS | 10 | 1429430000 |
| UR20-EM-1990070000-SP | 5 | 1562260000 |
| UR20-BM-SP | 5 | 1350930000 |
| UR20-PK-1990070000-SP | 5 | 2068620000 |



| | |
|-----------------------|-----------------------------|
| Product standard | IEC 61131-2, IEC61010-2-201 |
| EMC | EN 61000 |
| ATEX (in preparation) | EN 60079 |
| UL (in preparation) | UL 61010-2-201 |
| MSIP (in preparation) | MSIP-REM-WMG-1990070000 |



Let's connect.

PROFINET
Remote I/O for digital signal conditioning



UR67-PN-HP-8IOL-12-30M



UR67-PN-HP-8IOL-12-60M



Ordering data

| Module variants |
|-------------------------------|
| IO-Link, 4x Type A, 4x Type B |
| Note |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| UR67-PN-HP-8IOL-12-30M | 1 | 2426250000 |
| Note | | |

| Type | Qty. | Order No. |
|------------------------|------|------------|
| UR67-PN-HP-8IOL-12-60M | 1 | 2426260000 |
| Note | | |

| Connections |
|---------------------------------------------------|
| Fieldbus (BUS-IN) |
| Fieldbus (BUS-OUT) |
| Supply voltage (AUX-IN) |
| Supply voltage (AUX-OUT) |
| I/O connections |
| Voltage supply |
| Operating voltage |
| Power consumption of module electronics |
| Digital inputs |
| IO link standard |
| Galvanic isolation |
| Input current, low |
| Input current, high |
| Reverse polarity protection |
| Short-circuit protection |
| Overload protection |
| Status indicator |
| Diagnostic display |
| Digital outputs |
| max. current-carrying capacity per output signal |
| Output voltage, low |
| Output voltage, high |
| Max. total current outputs |
| Reverse polarity protection |
| Short-circuit protection |
| Overload protection |
| Status indicator |
| Diagnostic display |
| Fieldbus |
| Bus system |
| Transmission rate |
| Addressing |
| General data |
| L x W x H |
| Weight |
| Protection degree |
| Operating temperature |
| Housing main material / UL 94 flammability rating |

| 1x M12 female 4-pole, D-coded | | |
|---------------------------------|--|--|
| 1x M12 female 4-pole, D-coded | | |
| 1x M12 plug 5-pole, L-coded | | |
| 1x M12 socket 5-pole, L-coded | | |
| 8 x M12 socket 5-pole, A-coded | | |
| Voltage supply | | |
| 24 V (18 V DC ... 30 V DC) | | |
| 160 mA typical | | |
| Digital inputs | | |
| IO-Link v.1.1, IEC 61131-9 | | |
| 2000 V DC | | |
| Type 1 in acc. with IEC 61131-2 | | |
| Type 1 in acc. with IEC 61131-2 | | |
| Yes | | |
| Yes | | |
| Yes | | |
| Per channel, via LED, yellow | | |
| Per channel, via LED, red | | |
| Digital outputs | | |
| 0.5 A, 2 A | | |
| - 1 V | | |
| max. 2 V | | |
| 9 A | | |
| Yes | | |
| Yes | | |
| Yes | | |
| Per channel, via LED, yellow | | |
| Per channel, via LED, red | | |
| Fieldbus | | |
| PROFINET V2.3 | | |
| 10/100 Mbit/s | | |
| DCP | | |
| General data | | |
| 225 mm / 30 mm / 30 mm | | |
| 480 g | | |
| IP67 | | |
| -20 °C...70 °C | | |
| Zinc diecast / UL 94 | | |

| 1x M12 female 4-pole, D-coded | | |
|---------------------------------|--|--|
| 1x M12 female 4-pole, D-coded | | |
| 1x M12 plug 5-pole, L-coded | | |
| 1x M12 socket 5-pole, L-coded | | |
| 8 x M12 socket 5-pole, A-coded | | |
| Voltage supply | | |
| 24 V (18 V DC ... 30 V DC) | | |
| 160 mA typical | | |
| Digital inputs | | |
| IO-Link v.1.1, IEC 61131-9 | | |
| 2000 V DC | | |
| Type 1 in acc. with IEC 61131-2 | | |
| Type 1 in acc. with IEC 61131-2 | | |
| Yes | | |
| Yes | | |
| Yes | | |
| Per channel, via LED, yellow | | |
| Per channel, via LED, red | | |
| Digital outputs | | |
| 0.5 A, 2 A | | |
| - 1 V | | |
| max. 2 V | | |
| 9 A | | |
| Yes | | |
| Yes | | |
| Yes | | |
| Per channel, via LED, yellow | | |
| Per channel, via LED, red | | |
| Fieldbus | | |
| PROFINET V2.3 | | |
| 10/100 Mbit/s | | |
| DCP | | |
| General data | | |
| 200 mm / 59.6 mm / 17.6 mm | | |
| 500 g | | |
| IP67 | | |
| -20 °C...70 °C | | |
| Zinc diecast / UL 94 | | |

| Note |
|------|
|------|

| Note |
|------|
|------|

| Note |
|------|
|------|

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

FieldPower® Box with maintenance switch and fuses

- 5-pole power distribution 3~, N, PE
- Lockable maintenance switch acc. to IEC 60947-3
- Fuse terminal block for three safety fuses
- With local LED failure indicator and failure message via M12 (PIN 1 = external 24 V DC ± 20%, PIN 2 = switch, PIN 3 = GND, PIN 4 = fuse)
- Depending on configuration for safety fuses type CC or type 10 x 38 mm (max. 32 A)
- Max. 3 W for gG/gL, max. 1.2 W for aM depending on the ambient temperature

FP Box ON/OFF16A FUSE R



Technical data

| General data | |
|-------------------------------------------------|---------------------------|
| Dimensions | 181 / 192 / 165 mm |
| Ambient temperature | -25 °C...+45 °C |
| Temperature range, assembly, min. / max. | 10...40 °C |
| Storage temperature | -25 °C...70 °C |
| Material colour | Black |
| Protection degree | IP65 |
| Insulating material | Polycarbonate |
| UL 94 flammability rating | 5VA |
| Rated voltage | 400 V |
| Rated impulse withstand voltage | 4 kV |
| IDC connection for power distribution | |
| Rated current | 41 A |
| Rated current branch | 16 A |
| Clamping range, rated connection, min./max. | 2.5 / 6 mm ² |
| Blade size | 0.6 x 3.5 mm |
| PUSH IN connection distribution | |
| Clamping range, rated connection, min./max. | 0.5...6 mm ² |
| Connection cross-section, flexible, min. / max. | 0.5...10 mm ² |
| Blade size | 0.6 x 3.5 mm |
| Stripping length, PUSH IN connection | 14 mm |
| Technical data switch | |
| Rated current AC-23A | 16 A |
| Clamping range, rated connection, min./max. | 0.75 / 10 mm ² |
| Terminals - torque | 0.8 Nm |
| Technical data of fuse holder | |
| Cartridge fuse | 10 x 38 mm |
| Note | |

Ordering data

| Type | Qty. | Order No. |
|-------------------------|------|------------|
| FP Box ON/OFF16A FUSE R | 1 | 8000028513 |

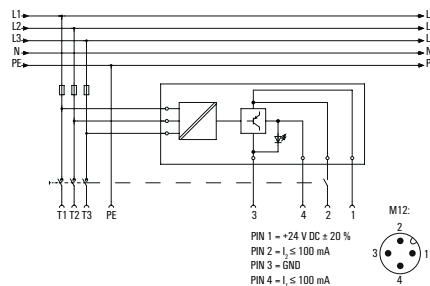
Accessories

| Type | Qty. | Order No. |
|-------------------------------------|------|------------|
| Blanking seal | 10 | 4323240000 |
| Round-cable seal, slit 1x 7.5 - 9mm | 10 | 4329610000 |
| Round-cable seal, slit 1x 9 - 11mm | 10 | 4323210000 |
| Round-cable seal, slit 1x 11 - 13mm | 10 | 4323230000 |
| Round-cable seal, slit 1x 13 - 15mm | 10 | 4323220000 |
| Round-cable seal, slit 1x 15 - 17mm | 10 | 4324010000 |
| Note | | |

| Type | Qty. | Order No. |
|-------------------------|------|------------|
| FP Box ON/OFF16A FUSE R | 1 | 8000028513 |

Included in delivery: three 10 x 38 safety fuses 16 A gG; six enclosure seals: 3x 432324000, 2x 432323000, 1x 432321000

| Type | Qty. | Order No. |
|--------------|------|------------|
| DG D0 PT6 | 10 | 4323240000 |
| RKDG D9 PT6 | 10 | 4329610000 |
| RKDG D11 PT6 | 10 | 4323210000 |
| RKDG D13 PT6 | 10 | 4323230000 |
| RKDG D15 PT6 | 10 | 4323220000 |
| RKDG D17 PT6 | 10 | 4324010000 |
| Note | | |





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



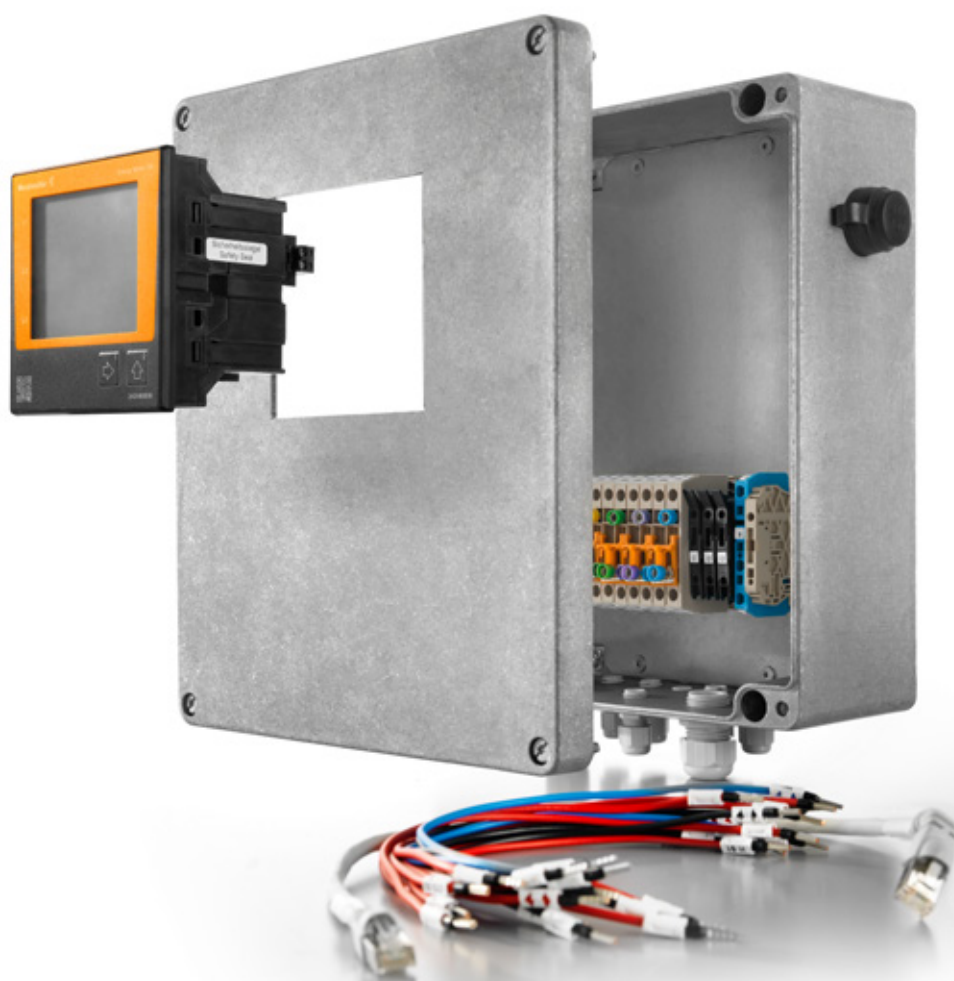
Machinery

Technical data

Energy management – Connectivity Boxes

Ordering data

| Type | Degree of protection | Dimensions (h x w x d) | Material | Order No. |
|-------------------------|----------------------------------------------------------------------|------------------------|-----------|------------|
| EM-Connectivity-Box 96 | IP 54 | 310 x 230 x 111 mm | Aluminium | 8000028950 |
| EM-Connectivity-Box TS | IP 65 | 310 x 230 x 111 mm | Aluminium | 8000028951 |
| EM-Connectivity-Box 144 | IP 42 | 430 x 250 x 120 mm | Plastic | 8000028952 |
| LST EM-BLOCK* | | | | 8000028895 |
| Note | * Test-disconnect terminal blocks with fuse mounted on terminal rail | | | |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure



Infrastructure



**Device
Manufacturers**



Transportation



Energy



Process



Machinery

Technical data

Energy analysis instruments

Energy Analyser D550-24



Technical data

| | |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage | 20 ... 50 V AC ±10%, 20 ... 70 V DC ±10% |
| General data | |
| Measuring accuracy for voltage | 0.2 % |
| Measuring accuracy for current | 0.2 % |
| Measurement accuracy for active energy (kWh, .../5 A) | Class 0.5S |
| Voltage quality measurement | |
| Harmonics, per order / current | 1-40. |
| Harmonics, per order / voltage | 1-40. |
| Distortion factor THD-U in % | Yes |
| Distortion factor THD-I in % | Yes |
| Measurement data recording | |
| Memory (Flash) | 128 MB |
| Display and inputs/outputs | |
| Display | LCD with backlit display, 2 keys |
| Digital inputs | 2 |
| Digital outputs | 2 as switch or pulse output |
| Temperature measurement input (PT100, PT1000, KTY83, KTY84) | 1 |
| Communication | |
| Interface | RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals), Ethernet 10/100 Base-TX (RJ-45 socket), RS232: 9.6 - 115.2 kbps |
| Protocol | |
| Protocol | TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP |
| Measuring-voltage input | |
| Measurement range, voltage L-N, AC (without converter) | 10...600 Vrms |
| Measurement range, voltage L-L, AC (without converter) | 18...1000 Vrms |
| Measuring-current input | |
| Rated current | 1 / 5 A |
| Note | |

| | |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage | 20 ... 50 V AC ±10%, 20 ... 70 V DC ±10% |
| General data | |
| Measuring accuracy for voltage | 0.2 % |
| Measuring accuracy for current | 0.2 % |
| Measurement accuracy for active energy (kWh, .../5 A) | Class 0.5S |
| Voltage quality measurement | |
| Harmonics, per order / current | 1-40. |
| Harmonics, per order / voltage | 1-40. |
| Distortion factor THD-U in % | Yes |
| Distortion factor THD-I in % | Yes |
| Measurement data recording | |
| Memory (Flash) | 128 MB |
| Display and inputs/outputs | |
| Display | LCD with backlit display, 2 keys |
| Digital inputs | 2 |
| Digital outputs | 2 as switch or pulse output |
| Temperature measurement input (PT100, PT1000, KTY83, KTY84) | 1 |
| Communication | |
| Interface | RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals), Ethernet 10/100 Base-TX (RJ-45 socket), RS232: 9.6 - 115.2 kbps |
| Protocol | |
| Protocol | TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP |
| Measuring-voltage input | |
| Measurement range, voltage L-N, AC (without converter) | 10...600 Vrms |
| Measurement range, voltage L-L, AC (without converter) | 18...1000 Vrms |
| Measuring-current input | |
| Rated current | 1 / 5 A |
| Note | |

Ordering data

| |
|-------------|
| Note |
|-------------|

| Type | Qty. | Order No. |
|-------------------------|------|------------|
| ENERGY ANALYSER D550-24 | 1 | 2489780000 |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

Energy

Transportation

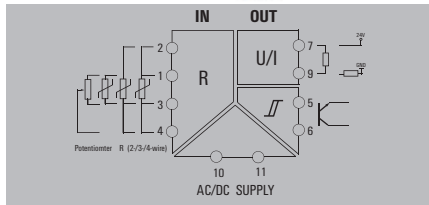
Device Manufacturers

Infrastructure

Resistance measurement transducer with limit relay

- Configurable from buttons and display
- Monitoring of resistance changes(e.g: motor winding / heating resistors)
- Analogue and digital output
- Removable terminals

ACT20P-PRO-RTCI-AO-DO



Technical data

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Input | |
| Number of inputs | 1 |
| Input resistance | 0... 15 kΩ |
| Potentiometer | 10... 150 kΩ |
| Output (digital) | |
| Number of outputs | 1 |
| Alarm function | configurable, Top and bottom limit values, window range, Short circuit at input, Alarm delay: 0...10 s, Hysteresis: 10 V |
| Type | NPN-Transistor, Switching frequency 5 kHz |
| Rated switching voltage | 24 VDC ±30% |
| Rated switching current | 100 mA |
| Output (analogue) | |
| Type (analogue output) | Voltage and current output (configurable) |
| Output voltage | 0...5 V, 0...5 V, 0...10 V, -5...+5 V, -10...+10 V |
| Output current | -20...+20 mA, ± 10mA, 0...20 mA |
| General data | |
| Configuration | with push-buttons and display |
| Accuracy | < ±0.1 % of span |
| Step response time | 2- / 4- wire: 320 ms., 3- wire / Poti: 640 ms |
| Temperature coefficient | ≤ 0.02 % / °C, ≤ 200 ppm/K |
| Supply voltage | 24...230 V DC ±15%, 24...230 V AC ±15% @48...62 Hz |
| Power consumption | ≤ 2.6 W |
| Insulation coordination | |
| EMC standards | EN 61326-1 |
| Standards | EN 61010-1 |
| Insulation voltage | 4 kV _{eff} / 1 min. |
| Rated voltage | 600 V |
| Impulse withstand voltage | 5 kV (1.2/50 μs) |
| Pollution degree | 2 |
| Overvoltage category | II |

| | | |
|----------------------------------------|-----------------|-----------------------------------|
| Dimensions | | Pluggable screw connection |
| Clamping range (nominal / min. / max.) | mm ² | 2.5 / 0.5 / 2.5 |
| Depth / Width / Height | mm | 113.7 / 12.5 / 117.2 |
| Note | | |

Ordering data

| | | | | |
|----------------|--------------------|-------------------------|-------------|------------------|
| Channel | | Type | Qty. | Order No. |
| | PUSH IN connection | ACT20P-PRO-RTCI-AO-DO-P | 1 | 2448110000 |
| | Screw connection | ACT20P-PRO-RTCI-AO-DO-S | 1 | 2448100000 |

| | |
|-------------|--|
| Note | |
|-------------|--|

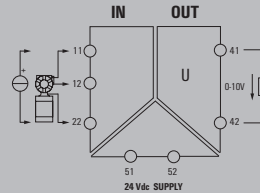
Accessories

| | |
|-------------|--|
| Note | |
|-------------|--|

DC isolating amplifier

- Isolation of DC signals
- Passive 3-wire transmitter and active current input
- 3-way isolation
- Removable terminals

ACT20P-CI-V0



Technical data

Input

Number of inputs
Input signal
Input current
Sensor supply

Output

Number of outputs
Output voltage
load impedance voltage

General data

Step response time
Current consumption
Configuration
Accuracy
Temperature coefficient
Supply voltage

Insulation coordination

Insulation voltage
Impulse withstand voltage
EMC standards
Standards
Test voltage
Pollution degree
Overvoltage category

1

2-/3-wire transmitter, Current source

0...20 mA, 4...20mA

> 17 V DC at 20 mA

1

0...10 V, 2...10 V

≥ 500 kΩ

≤ 0,5 ms

≤60 mA (24V power supply, 20mA output)

none

±0,1 % FSR max., 0,05 % FSR typ.

80 ppm/K

20...30 V DC

2 kV (Input /Output), 1 min, 50 Hz

4 kV (1.2/50 μs)

EN 61326-1

EN 61010-1, UL 61010-1

300 V

2

III

Dimensions

Clamping range (nominal / min. / max.)
Depth / Width / Height

mm²
mm

0.6 / 0.5 / 2.5

113.7 / 12.5 / 117.2

Note

Ordering data

| Type | Qty. | Order No. |
|--------------|------|------------|
| ACT20P-CI-V0 | 1 | 1540010000 |

Note

Accessories

Note



Technical data

Machinery

Process

Energy

Transportation

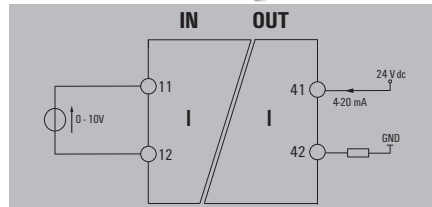
Device
Manufacturers

Infrastructure

Voltage converter, output loop powered

- Removable terminals
- Power supply via the output circuit (output loop powered)
- 2-way isolation

ACT20P-VI-CO-OLP



Technical data

| Input | |
|---------------------------|----------------------------------------------------------|
| Number of inputs | 1 |
| Input voltage | 0...10 V 0...5 V DC |
| Input resistance, voltage | ≥ 300 kΩ |
| Output | |
| Number of outputs | 1 |
| Output current | 4...20 mA, loop-powered |
| load impedance current | ≤ 600 Ω |
| General data | |
| Configuration | none |
| Galvanic isolation | 2-way isolator |
| Accuracy | < 0.2 % of end value |
| Temperature coefficient | ≤ 100 ppm/K |
| Supply voltage | via output current loop, min. 12 V DC/ max. 30 V DC |
| Insulation coordination | |
| EMC standards | EN 61010-1:2011, UL 61010-1, IEC61000-6-2, IEC 61000-6-4 |
| Rated voltage | 300 V |
| Insulation voltage | 2 kV (Input /Output), 1 min, 50 Hz |
| Impulse withstand voltage | 4 kV (1.2/50 μs) |
| Overvoltage category | III |

| Input | |
|---------------------------|----------------------------------------------------------|
| Number of inputs | 1 |
| Input voltage | 0...10 V 0...5 V DC |
| Input resistance, voltage | ≥ 300 kΩ |
| Output | |
| Number of outputs | 1 |
| Output current | 4...20 mA, loop-powered |
| load impedance current | ≤ 600 Ω |
| General data | |
| Configuration | none |
| Galvanic isolation | 2-way isolator |
| Accuracy | < 0.2 % of end value |
| Temperature coefficient | ≤ 100 ppm/K |
| Supply voltage | via output current loop, min. 12 V DC/ max. 30 V DC |
| Insulation coordination | |
| EMC standards | EN 61010-1:2011, UL 61010-1, IEC61000-6-2, IEC 61000-6-4 |
| Rated voltage | 300 V |
| Insulation voltage | 2 kV (Input /Output), 1 min, 50 Hz |
| Impulse withstand voltage | 4 kV (1.2/50 μs) |
| Overvoltage category | III |

| Dimensions | |
|----------------------------------------|-----------------|
| Clamping range (nominal / min. / max.) | mm ² |
| Depth / Width / Height | mm |
| Note | |

| Pluggable screw connection | |
|----------------------------|--|
| 2.5 / 0.5 / 2.5 | |
| 114 / 12.5 / 117.2 | |
| Note | |

Ordering data

| Input voltage | |
|---------------|--|
| 0...10 V | |
| 0...5 V | |
| Note | |

| Type | Qty. | Order No. |
|-------------------|------|------------|
| ACT20P-VI-CO-OLP | 1 | 7760054121 |
| ACT20P-VI1-CO-OLP | 1 | 7760054120 |

Accessories

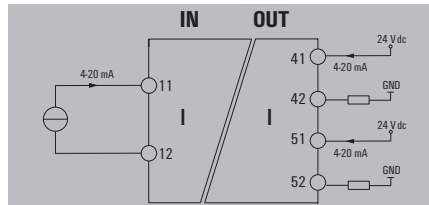
| Note | |
|------|--|
|------|--|

| Note | |
|------|--|
|------|--|

Current transformer signal splitter, output loop powered

- Isolation and splitting of DC signals
- Passive input
- Power supply via the output circuit (output loop powered)
- 2-way isolation

ACT20P-CI-2CO-OLP



Technical data

Input

Number of inputs
Input current
Sensor

Output

Number of outputs
Output current
load impedance current

General data

Configuration
Galvanic isolation
Accuracy
Temperature coefficient
Supply voltage

Insulation coordination

EMC standards
Insulation voltage
Rated voltage
Impulse withstand voltage
Pollution degree
Overvoltage category

1

4...20mA

Current source

2

4...20 mA, loop-powered

$R_L = (U_B - 12 \text{ V}) / 20 \text{ mA z.B. } 600 \Omega \text{ at } 24 \text{ V}$

none

2-way isolator

< 0.1 % of end value

≤ 100 ppm/K

via output current loop, min. 12 V DC/ max. 30 V DC

EN 61010-1:2011, UL 61010-1, IEC61000-6-2, IEC 61000-6-4

2 kV (Input /Output), 1 min, 50 Hz

300 V

4 kV (1.2/50 μs)

2

III

Dimensions

Clamping range (nominal / min. / max.) mm²
Depth / Width / Height mm

Note

Pluggable screw connection

2.5 / 0.5 / 2.5
114 / 12.5 / 117.2

Ordering data

| Type | Qty. | Order No. |
|-------------------|------|------------|
| ACT20P-CI-2CO-OLP | 1 | 7760054122 |

Note

Accessories

Note



Technical data

Machinery

Process

Energy

Transportation

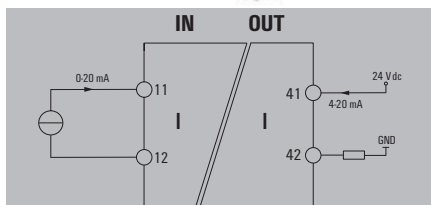
Device Manufacturers

Infrastructure

Current transformer, output loop powered

- Isolation of DC signals
- Power supply via the output circuit (output loop powered)
- 2-way isolation
- Removable terminals

ACT20P-CI-CO-OLP



Technical data

| Input | |
|---------------------------|----------------------------------------------------------|
| Number of inputs | 1 |
| Input current | 0...20 mA 4...20mA |
| Sensor | Current source |
| Output | |
| Number of outputs | 1 |
| Output current | 4...20 mA, loop-powered |
| load impedance current | ≤ 600 Ω |
| General data | |
| Galvanic isolation | 2-way isolator |
| Accuracy | < 0.1 % of end value |
| Temperature coefficient | ≤ 100 ppm/K |
| Supply voltage | via output current loop, min. 12 V DC/ max. 30 V DC |
| Insulation coordination | |
| EMC standards | EN 61010-1:2011, UL 61010-1, IEC61000-6-2, IEC 61000-6-4 |
| Insulation voltage | 2 kV inputs / outputs |
| Rated voltage | 300 V |
| Impulse withstand voltage | 4 kV (1.2/50 μs) |
| Pollution degree | 2 |
| Overtoltage category | III |

| Pluggable screw connection | | |
|----------------------------------------|--------------------|--|
| Clamping range (nominal / min. / max.) | 2.5 / 0.5 / 2.5 | |
| Depth / Width / Height | 114 / 12.5 / 117.2 | |
| Note | | |

| Dimensions | |
|----------------------------------------|-----------------|
| Clamping range (nominal / min. / max.) | mm ² |
| Depth / Width / Height | mm |
| Note | |

Ordering data

| Input current | |
|---------------|-----------|
| | 0...20 mA |
| | 4...20 mA |
| Note | |

| Type | Qty. | Order No. |
|-------------------|------|------------|
| ACT20P-CI1-CO-OLP | 1 | 7760054118 |
| ACT20P-CI2-CO-OLP | 1 | 7760054119 |

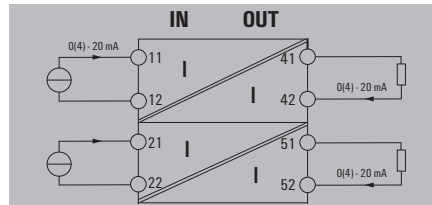
Accessories

| Note | |
|------|--|
|------|--|

Current transformer, input loop powered

- Isolation of DC- signals
- Power supply via the input circuit (input loop powered)
- 1 or 2 channels in one module
- 2-way isolation
- Removable terminals

ACT20P-CI-CO-ILP



Technical data

| | |
|--------------------------------|----------------------------------------------------------|
| Input | |
| Number of inputs | 2 |
| Input current | 0...20 mA current loop |
| Sensor | Current source |
| Voltage drop, current input | 3.8 V |
| Output | |
| Number of outputs | 2 |
| Output current | 0...20 mA |
| load impedance current | ≤ 600 Ω |
| General data | |
| Galvanic isolation | 2-way isolator |
| Accuracy | < 0.1 % of end value |
| Temperature coefficient | ≤ 100 ppm/K |
| Supply voltage | Loop powered, via 4...20 mA input |
| Insulation coordination | |
| EMC standards | EN 61010-1:2011, UL 61010-1, IEC61000-6-2, IEC 61000-6-4 |
| Insulation voltage | 2 kV inputs / outputs |
| Rated voltage | 300 V |
| Impulse withstand voltage | 4 kV (1.2/50 μs) |
| Pollution degree | 2 |
| Overvoltage category | III |

| | | |
|----------------------------------------|-----------------|--------------------|
| Dimensions | | |
| Clamping range (nominal / min. / max.) | mm ² | 2.5 / 0.5 / 2.5 |
| Depth / Width / Height | mm | 114 / 12.5 / 117.2 |
| Note | | |
| Ordering data | | |
| Channel | | |
| | 2 channel | Type |
| | 1 channel | Qty. |
| | | Order No. |
| | | ACT20P-2CI-2CO-ILP |
| | | 1 |
| | | 7760054124 |
| | | ACT20P-CI-CO-ILP |
| | | 1 |
| | | 7760054123 |
| Note | | |
| Accessories | | |
| Note | | |

| | | |
|-----------------------------------|--|--|
| Pluggable screw connection | | |
| 2.5 / 0.5 / 2.5 | | |
| 114 / 12.5 / 117.2 | | |
| Note | | |

| | | |
|----------------------|-----------|--------------------|
| Ordering data | | |
| Channel | | |
| | 2 channel | Type |
| | 1 channel | Qty. |
| | | Order No. |
| | | ACT20P-2CI-2CO-ILP |
| | | 1 |
| | | 7760054124 |
| | | ACT20P-CI-CO-ILP |
| | | 1 |
| | | 7760054123 |
| Note | | |

| | | |
|--------------------|--|--|
| Accessories | | |
| Note | | |

Technical data

Machinery

Process

Energy

Transportation

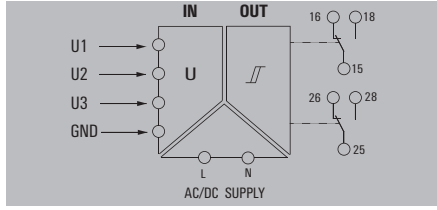
Device
Manufacturers

Infrastructure

Voltage monitoring, 1-phase

- Monitoring of single-phase systems up to 400 V AC/DC
- 3 input ranges can be selected
- 2 relays with CO contacts
- Holding function can be activated
- Rotary switch for setting limit values

ACT20P-VMR-1PH-H



Technical data

| Input | |
|----------------------------------------|-------------------------------------------------------------------------------------------------------|
| Number of inputs | 1 |
| Input voltage | Channel 1: (U1-E): 110V AC/DC, Channel 2: (U2-E): 240V AC/DC, Channel 3 1: (U3-E): 400V AC/DC |
| Input measurement range | 50...120% $U_{rated\ voltage}$ |
| Input frequency | 40...60 Hz, DC |
| Input resistance, voltage | 1 M Ω ±5% |
| Output (digital) | |
| Number of digital outputs | 2 |
| Type | 2 x 1 - or 1 x 2 changeover contact relay, Relay polarity can be inverted |
| Alarm function | Surge voltage, Undervoltage, Voltage window, Holding function can be activated, Alarm delay: 0...10 s |
| Rated switching current | 5 A |
| Max. switching voltage, AC | 250 V |
| Max. switching voltage, DC | 30 V |
| General data | |
| Configuration | DIP switch and potentiometer |
| Accuracy | 3% * $U_{rated\ voltage}$ |
| Measurement calibration | max: 70...120% * $U_{rated\ voltage}$, min: 50...100% * $U_{rated\ voltage}$ |
| Power consumption | ≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC |
| Step response time | < 220 ms (10...90 %) |
| Temperature coefficient | 350 ppm/K |
| Repeat accuracy | 2% * $U_{rated\ voltage}$ |
| Supply voltage | 24...240 VUC ±10% |
| Insulation coordination | |
| EMC standards | IEC 61326-1 |
| Galvanic isolation | 3-way isolator, between input / output / supply |
| Rated voltage | 300 VAC (output 1 - output 2), 300 VAC (supply-output), 500 VAC (supply-input, input-output) |
| Insulation voltage | 2.5 kV (input / output), 2 kV input / output/ power supply |
| Impulse withstand voltage | Supply/output: 4 kV; input/output, supply/input: 6 kV, 1.2/50 μ s |
| Pollution degree | 2 |
| Overvoltage category | III |
| Standards | EN 50178 |
| Dimensions | |
| Clamping range (nominal / min. / max.) | 1.5 / 0.5 / 2.5 |
| Depth / Width / Height | 114.3 / 22.5 / 117 |
| Note | |

| Pluggable screw connection | | |
|----------------------------|------|------------|
| Type | Qty. | Order No. |
| ACT20P-VMR-1PH-H | 1 | 7760054164 |
| Note | | |

Ordering data

| Note | |
|------|--|
|------|--|

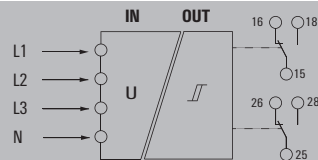
Accessories

| Note | |
|------|--|
|------|--|

Voltage monitoring, 3-phase

- Voltage monitoring for 3-phase systems up to 500 V AC
- Phase monitoring
- 2 relays with CO contacts
- Holding function can be activated
- Rotary switch for setting limit values

ACT20P-VMR-3PH-ILP-H



Technical data

Input

Number of inputs
Input frequency
Input measurement range
Input voltage
Input resistance, voltage

1
40...60 Hz
200...480 VAC
180...500 VAC
≥1,8MΩ

Output (digital)

Number of digital outputs
Type
Alarm function

2
2 x 1 - or 1 x 2 changeover contact relay
Top and bottom limit values, window range, Holding function can be activated, Phase error, Phase sequence, Asymmetry, Alarm delay:
0...10 s

Rated switching current
Max. switching voltage, AC
Max. switching voltage, DC

5 A
250 V
30 V

General data

Configuration
Accuracy
Measurement calibration
Unbalanced
Repeat accuracy
Step response time
Temperature coefficient
Supply voltage

DIP switch and potentiometer
3% *U_{rated voltage}
max: 70...120% *U_{rated voltage}, min: 50...100% *U_{rated voltage}
Hysteresis: 5%, Phase imbalance in range of adjustment: 5...25%, OFF
2% *U_{rated voltage}
≤ 100 ms
350 ppm/K
supplied from voltage measurement inputs

Insulation coordination

EMC standards
Galvanic isolation
Rated voltage
Insulation voltage
Impulse withstand voltage
Pollution degree
Overvoltage category
Standards

EN 61326-1
2-way isolator, between input/output
600 VAC (input - output), 300 VAC (output 1 - output 2)
2.5 kV (input / output)
6 kV (input - output), 4 kV (output 1 - output 2), 1.2/50 μs
2
III
EN 50178

Dimensions

Clamping range (nominal / min. / max.) mm²
Depth / Width / Height mm

Pluggable screw connection

1.5 / 0.5 / 2.5
114.3 / 22.5 / 117

Note

Ordering data

| Type | Qty. | Order No. |
|----------------------|------|------------|
| ACT20P-VMR-3PH-ILP-H | 1 | 7760054165 |

Note

Accessories

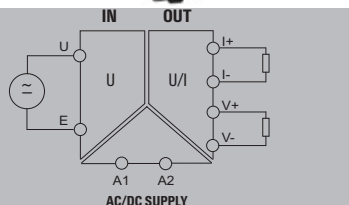
Note



Voltage measurement, 1-phase

- Voltage monitoring of single-phase network up to 500 V AC
- 10 input ranges can be selected
- AC/DC power supply

ACT20P-VM-A0-S



Technical data

Input

Number of inputs
Input frequency
Input voltage

Output

1
40...60 Hz, DC
 U_{N1} : 0...300 V AC, U_{N2} : 0...125 V AC, U_{N3} : 0...60 VDC, U_{N4} : 0...150 VDC, U_{N5} : 0...300 V DC, U_{N6} : 0...30 V DC, U_{N7} : 0...300 VDC, U_{N8} : 0...440 VDC, U_{N9} : 0...60 VAC, U_{N10} : 0...144 VAC, U_{N11} : 0...300 VAC

Input resistance

1 MΩ±5%

Output

Number of outputs
Output voltage
Output current
load impedance voltage
load impedance current

1
0...10 V
0...20 mA
≥ 10 kΩ
≤ 500 Ω

General data

Configuration
Accuracy
Power consumption
Step response time
Temperature coefficient
Supply voltage

With FDT/DTM software
0.5 % FSR
≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC
< 300 ms
≤ 200 ppm/K
24...240 VUC (±10%)

Insulation coordination

EMC standards
Galvanic isolation
Rated voltage
Insulation voltage input or output/supply
Impulse withstand voltage

IEC 61000-6 /2, IEC 61000-6-4, IEC 61326-1
3-way isolator, between input / output / supply
300 VAC (supply-output), 500 VAC (supply-input; input-output)
2.2 kVAC, 1 min, 50 Hz
4 kV (1.2 / 50 μs) input - output/ supply, 6 kV (input - output), 1.2/50 μs
2
III
EN 50178

Pollution degree
Overvoltage category
Standards

Dimensions

Clamping range (nominal / min. / max.) mm²
Depth / Width / Height mm

Pluggable screw connection

1.5 / 0.5 / 2.5
114.3 / 22.5 / 117

Note

Ordering data

| Type | Qty. | Order No. |
|----------------|------|------------|
| ACT20P-VM-A0-S | 1 | 7760054306 |

Note

Accessories

Note CBX 200

Technical data

Machinery

Process

Energy

Transportation

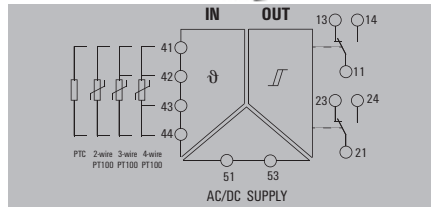
Device Manufacturers

Infrastructure

Temperature monitoring

- Temperature monitoring of PT100 sensors or PTC
- Temperature range can be selected
- 2 relays with CO contacts
- Limit value can be set with software configuration

ACT20P-TMR-RTI-S



Technical data

| | | |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| Input | | |
| Number of inputs | 1 | |
| Sensor | PT100 / 2-/3-/4-wire, PTC: 0...4 kΩ | |
| Temperature input range | Configurable, PT100: -200°C...850°C | |
| Output (digital) | | |
| Number of outputs | 2 | |
| Type | 2 x 1 - or 1 x 2 changeover contact relay | |
| Alarm function | Alarm range: -200...850 °C, Top and bottom limit values, window range, Hysteresis: 2 °C (adjustable), Alarm delay: 0...10 s | |
| Rated switching current | 5 A | |
| Max. switching voltage, AC | 250 V | |
| Max. switching voltage, DC | 30 V | |
| General data | | |
| Configuration | With FDT/DTM software | |
| Accuracy | 0.2% FSR, ≤ 2 °C (PT100), ≤ 8 Ω (PTC) | |
| Power consumption | ≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC | |
| Step response time | ≤ 500 ms | |
| Temperature coefficient | ≤ 100 ppm/K | |
| Supply voltage | 20...264 VUC | |
| Insulation coordination | | |
| EMC standards | IEC 61326-1 | |
| Galvanic isolation | 3-way isolator, between input/output/supply | |
| Insulation voltage | 2 kV (Input/Output), 1 min, 50 Hz | |
| Impulse withstand voltage | 4 kV (1.2/50 μs) | |
| Pollution degree | 2 | |
| Overvoltage category | III | |
| Rated voltage | 300 V | |
| Standards | IEC 61010-1 | |
| Dimensions | | |
| Clamping range (nominal / min. / max.) | mm ² | |
| Depth / Width / Height | mm | |
| Note | | |
| Ordering data | | |
| Type | Qty. | Order No. |
| ACT20P-TMR-RTI-S | 1 | 7760054305 |
| Note | | |
| Accessories | | |
| Note | CBX 200 | |

| |
|-----------------------------------|
| Pluggable screw connection |
| 1.5 / 0.5 / 2.5 |
| 114.3 / 22.5 / 117 |

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



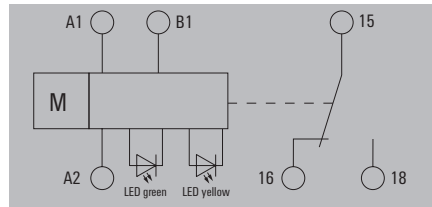
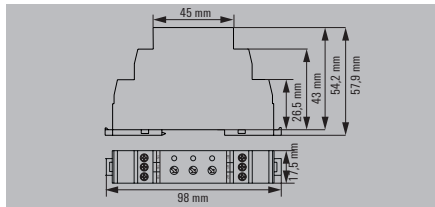
Infrastructure



Industry timing relay

- Multi-voltage input: 24 - 48 V DC, 24 - 240 V AC
- Space-saving construction
- 7 time functions with separate control input

ITS 24-240 V UC 1 CO M7C



Technical data

| Input | |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Rated control voltage | 24..48 V DC - 15 % / + 10 % / 24..240 V AC - 15 % / + 10 % |
| Power rating | 8 VA @ 230 V AC, 0.4 W at 24 V DC |
| Status indicator | LED green (U/t): flashes when time runs, lights permanently with supply voltage applied, LED yellow (R): relay closed |
| Repeat accuracy | < 0.5 % or ±5 ms |
| Basic accuracy | < 1.5 % (of scale-end value) |
| Setting tolerance | 5 % |
| Min. pulse duration | 50 ms |
| Time ranges | 0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 0.5 min - 10 min, 3 min - 1 h, 0.5 h - 10 h |
| Max. reset time after voltage interruption | 100 ms |
| Output | |
| Rated switching voltage | 250 V AC |
| Max. switching voltage, AC | 250 V |
| Max. switching voltage, DC | 30 V |
| Continuous current | 5 A |
| AC switching capacity (resistive), max. | 1250 VA |
| DC switching capacity (resistive), max. | 90 W |
| Max. switching frequency at rated load | 0.1 Hz |
| Contact material | AgNi |
| Mechanical service life | 1 x 10 ⁶ switching cycles |
| General data | |
| Ambient temperature (operational) | -25 °C...50 °C |
| Storage temperature | -40 °C...70 °C |
| Humidity | 25 - 75%, no condensation |
| Version | with separate control input |
| Resistance to vibration EN 61812-1 | 10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g |
| Approvals | CE |
| Insulation coordination | |
| Rated voltage | 300 V |
| Creepage and clearance distance input - output | ≥ 1.5 mm |
| Dielectric strength input - output | 1.6 kV |
| Impulse withstand voltage | 2.5 kV |
| Protection degree | IP20 |
| Dimensions | |
| Clamping range (nominal / min. / max.) | mm ² 2.5 / 0.25 / 2.5 |
| Depth x width x height | mm 57.9 / 17.5 / 98 |
| Note | |

| Type | Qty. | Order No. |
|-----------------------|------|------------|
| ITS 24-240VUC 1CO M7C | 1 | 2496190000 |

Ordering data

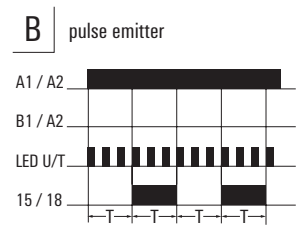
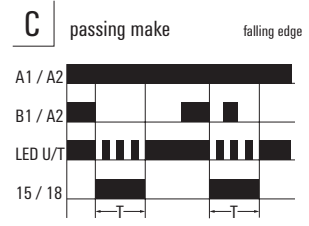
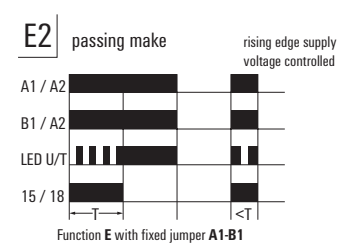
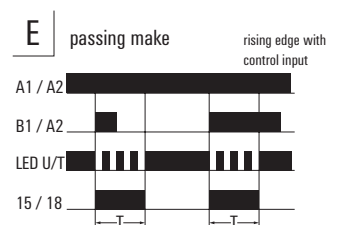
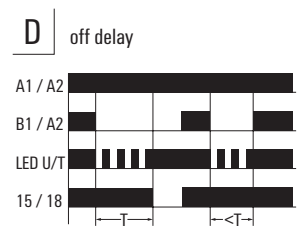
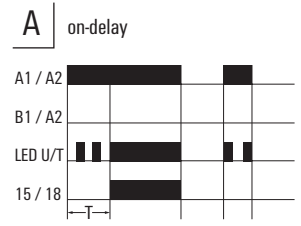
| |
|------------------|
| Screw connection |
|------------------|

Note

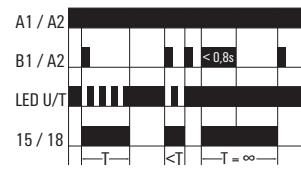
Accessories

| |
|------|
| Note |
|------|

Time functions



F Flip-flop / latching





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



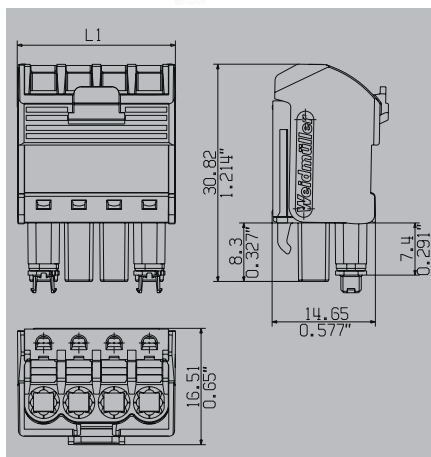
Machinery

Technical data

PUSH IN connection system

- Proven PUSH IN connection system with WireReady
- The integrated, captive coding with „AutoSet“ function protects against false insertion
- Tool-free fast connector mounting
- Safe interlocking and unlocking through release lever
- Connection system for devices from the series: ACT20P, ACT20C, ACT20X

CH20M BHF 5.00



Technical data

| | |
|-------------------------------------------|----------------------|
| Wire connection method | PUSH IN |
| Pitch, in mm | 5.00 mm |
| Number of rows | 1 |
| Can be coded | Yes |
| Stripping length | 8 mm |
| Insulating material | PA 66 GF 30 |
| Colour | Black |
| Insulating material group | II |
| Contact surface | tinned |
| Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 14 |
| w. wire end ferrule, DIN 46228 pt 1, min | 0.25 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² |
| Rated voltage (Use group B) | 300 V |
| Rated current (use group B) | 10 A |

| | |
|-------------------------------------------|----------------------|
| Wire connection method | PUSH IN |
| Pitch, in mm | 5.00 mm |
| Number of rows | 1 |
| Can be coded | Yes |
| Stripping length | 8 mm |
| Insulating material | PA 66 GF 30 |
| Colour | Black |
| Insulating material group | II |
| Contact surface | tinned |
| Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 14 |
| w. wire end ferrule, DIN 46228 pt 1, min | 0.25 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² |
| Rated voltage (Use group B) | 300 V |
| Rated current (use group B) | 10 A |

| | |
|------|--|
| Note | |
|------|--|

Ordering data

| Release lever black | Type | Qty. | Order No. |
|-----------------------------|-------------------------|------|------------|
| 2 pole | BHF 5.00/02/180LH BK/BK | 150 | 1497740000 |
| 3 pole | BHF 5.00/03/180LH BK/BK | 108 | 1497670000 |
| 4 pole | BHF 5.00/04/180LH BK/BK | 78 | 1497500000 |
| Release lever orange | | | |
| 2 pole | BHF 5.00/02/180LH BK/OR | 150 | 1988380000 |
| 3 pole | BHF 5.00/03/180LH BK/OR | 108 | 1989210000 |
| 4 pole | BHF 5.00/04/180LH BK/OR | 78 | 1989190000 |
| Release lever blue | | | |
| 2 pole | BHF 5.00/02/180LH BK/BL | 150 | 1989220000 |
| 3 pole | BHF 5.00/03/180LH BK/BL | 108 | 1989200000 |
| 4 pole | BHF 5.00/04/180LH BK/BL | 78 | 1989090000 |

| Type | Qty. | Order No. |
|-----------------------------|------|------------|
| BHF 5.00/02/180LH BK/BK | 150 | 1497740000 |
| BHF 5.00/03/180LH BK/BK | 108 | 1497670000 |
| BHF 5.00/04/180LH BK/BK | 78 | 1497500000 |
| Release lever orange | | |
| BHF 5.00/02/180LH BK/OR | 150 | 1988380000 |
| BHF 5.00/03/180LH BK/OR | 108 | 1989210000 |
| BHF 5.00/04/180LH BK/OR | 78 | 1989190000 |
| Release lever blue | | |
| BHF 5.00/02/180LH BK/BL | 150 | 1989220000 |
| BHF 5.00/03/180LH BK/BL | 108 | 1989200000 |
| BHF 5.00/04/180LH BK/BL | 78 | 1989090000 |

| | |
|------|--|
| Note | |
|------|--|

Accessories

| | |
|------|--|
| Note | |
|------|--|

| | |
|------|--|
| Note | |
|------|--|

| | |
|------|--|
| Note | |
|------|--|

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

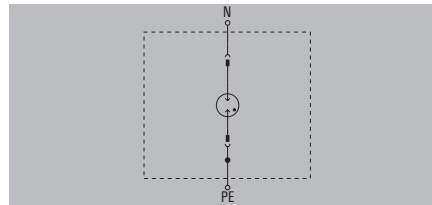
Technical data

Type II N-PE arrester

- Tested according to IEC 61643-11 Type II
- Pluggable N-PE arrester
- Coded voltage level
- High energy absorption with short time to sparkover
- Insert can be rotated through 180°
- Installation in distribution board

VPU II 1 N-PE 260 40/65

N-PE arrester 260 V



Technical data

Rated voltage (AC)
 Max. continuous voltage, U_c (AC)
 Max. continuous voltage, U_c (N-PE)
 Discharge current I_n (8/20 μ s) wire-PE
 Discharge current I_n (8/20 μ s) N-PE
 Discharge current I_{max} (8/20 μ s) wire-PE
 Discharge current I_{max} (8/20 μ s) N-PE
 Combined pulse U_{DC}
 Requirements class, acc. to EN 61643-11
 Short-circuit current rating I_{SCCR}
 Leakage current at U_n
 Fuse
 Temporary surge voltage (over-voltage) - TOV
 Protection level U_p at I_n (L/N-PE)
 Protection level U_p at I_n (N-PE)
 Response time
 Optical function display
 Design
 Colour
 Ambient temperature (operational)
 Storage temperature

230 V
 260 V
 40 kA
 65 kA
 10 kV
 T2, T3
 100 kA
 0 μ A
 1200 V
 ≤ 1.6 kV
 ≤ 100 ns
 No
 Installation housing: 1TE, Insta IP 20
 Black, arrester blue
 -40 °C...70 °C
 -40 °C...80 °C

Connection according to IEC 947-7-1

Solid
 Stranded
 Stripping length
 Tightening torque

1.5...16 mm²
 1.5...50 mm²
 15 mm
 2...3 Nm

Approvals

Approvals
 Standards

CE
 IEC61643-11, EN61643-11

Dimensions / Signalling contact info

Clamping range (nominal / min. / max.) mm²
 Height x width x depth mm
 Signalling contact

no remote sig. contact

16 / 1.5
 94 / 17.8 / 69
 No

Note

Ordering data

without remote signalling contact

| Type | Qty. | Order No. |
|-------------------------|------|------------|
| VPU II 1 N-PE 260 40/65 | 1 | 2520470000 |

Note

Accessories

Note
 Pluggable spare arrester VPU II 0 N-PE 260 40/64 - 2520890000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

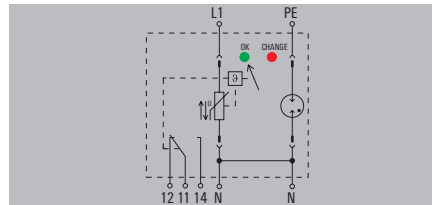
Infrastructure

Type II/III surge protection U_c : 280 V
Suitable for 230/400 V mains systems

- Pluggable arrester
- Coded voltage level
- High energy absorption with short time to sparkover
- Insert can be rotated through 180°
- No follow-on current
- Installation in distribution board
- Thermal protection function
- Co-ordination with VPU Type I

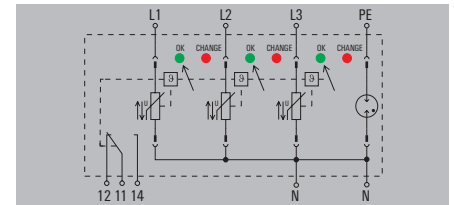
VPU II 1+1/R 280 40/65

1-phase



VPU II 3+1/R 280 40/65

TN-S, TT



Technical data

Rated voltage (AC)
 Max. continuous voltage, U_c (AC)
 Max. continuous voltage, U_c (N-PE)
 Discharge current I_n (8/20 μ s) wire-PE
 Discharge current I_n (8/20 μ s) N-PE
 Discharge current I_{nmax} (8/20 μ s) wire-PE
 Discharge current I_{nmax} (8/20 μ s) N-PE
 Combined pulse U_{oc}
 Requirements class, acc. to EN 61643-11
 Short-circuit current rating I_{scorr}
 Leakage current at U_n
 Fuse
 Temporary surge voltage (over-voltage) - TOV
 Protection level U_p at I_n (L/N-PE)
 Protection level U_p at I_n (N-PE)
 Response time
 Optical function display
 Design
 Colour
 Ambient temperature (operational)
 Storage temperature

Connection according to IEC 947-7-1

Solid
 Stranded
 Stripping length
 Tightening torque

Approvals

Approvals
 Standards

Dimensions / Signalling contact info

Clamping range (nominal / min. / max.) mm²
 Height x width x depth mm
 Signalling contact

Note

Ordering data

without remote signalling contact
 with remote signalling contact (R)

Note

Accessories

Note

230 V
 280 V
 260 V
 20 kA
 40 kA
 40 kA
 65 kA
 10 kV
 T2, T3
 25 kA
 100 μ A
 125 A gL (if back-up fuse > 125 A)
 438 V
 ≤ 1.55 kV
 ≤ 1.6 kV
 ≤ 25 ns, ≤ 100 ns
 green = OK; red = arrester is defective - replace
 Installation housing; 2TE, Insta IP 20
 Black, Arrester orange / blue
 -40 °C...70 °C
 -40 °C...80 °C

1.5...16 mm²
 1.5...50 mm²
 15 mm
 2...3 Nm

CE
 IEC61643-11, EN61643-11

no remote sig. contact with remote signalling (R)

16 / 1.5 16 / 1.5
 94 / 35.6 / 69 106 / 35.6 / 69
 No 250 V 1A 1CO

| Type | Qty. | Order No. |
|------------------------|------|------------|
| VPU II 1+1 280 40/65 | 1 | 2520900000 |
| VPU II 1+1 R 280 40/65 | 1 | 2520910000 |

Pluggable spare arrester L-N VPU II 0 280 V/40 kA - 1352570000,
 N-PE VPU II 0 N-PE 260 40/65 - 2520890000

230 V
 280 V
 260 V
 20 kA
 40 kA
 40 kA
 65 kA
 10 kV
 T2, T3
 25 kA
 100 μ A
 125 A gL (if back-up fuse > 125 A)
 438 V
 ≤ 1.55 kV
 ≤ 1.6 kV
 ≤ 25 ns, ≤ 100 ns
 green = OK; red = arrester is defective - replace
 Installation housing; 4TE, Insta IP 20
 Black, Arrester orange / blue
 -40 °C...70 °C
 -40 °C...80 °C

1.5...16 mm²
 1.5...50 mm²
 15 mm
 2...3 Nm

CE
 IEC61643-11, EN61643-11

no remote sig. contact with remote signalling (R)

16 / 1.5 16 / 1.5
 94 / 71.2 / 69 106 / 71.2 / 69
 No 250 V 1A 1CO

| Type | Qty. | Order No. |
|------------------------|------|------------|
| VPU II 3+1 280 40/65 | 1 | 2520920000 |
| VPU II 3+1 R 280 40/65 | 1 | 2520930000 |

Pluggable spare arrester L-N VPU II 0 280 V/40 kA - 1352570000,
 N-PE VPU II 0 N-PE 260 40/65 - 2520890000

Graphically programmable logic units

- For simple instrumentation and control tasks
- Digital and analogue inputs
- Digital outputs + PWM output
- Suitable for high temperature and vibration requirements

Logit unit WCU 501



Logit unit WCU 650



Technical data

| General data | |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Type of connection / Wire connection method | Plug-in spring-type terminals (0.25 - 1.5 mm ²) / PUSH IN |
| Operating voltage | +VDD: 7...32 V DC |
| Input fuse | max. 8 A (external) |
| Optical function display | LED |
| Interface | Seriell RS232 |
| Protection degree | IP20 |
| Encapsulation compound | Polyurethane (PU) |
| Analogue inputs | |
| Number | 3 |
| Pin assignment | IN 3, IN 4, IN 5 |
| Resolution | 10 Bit |
| Input voltage (U _{in}) | 0...30 V DC |
| Precision | ± 3 % (0.5 V DC) |
| Digital inputs | |
| Number | 2 |
| Pin assignment | IN 1, IN 2 |
| Input frequency (f _{in}) | ≤ 1 kHz |
| Input voltage (U _{in}) | 0...30 V DC |
| Digital outputs | |
| Number | 4 |
| Pin assignment | OUT 1, OUT 2, OUT 3, OUT 4 |
| Total output current (I _{OUT}) / Output current per channel (I _{OUT}) | ≤ 4 A / < 1.5 A |
| Switching frequency (f _{OUT}) | 0...100 Hz |
| PWM output | |
| Number of | 1 |
| Pin assignment | OUT 5 |
| Output current per channel (I _{OUT}) | ≤ 1 A |
| Note | Can also be used as a digital output (ground-switching) |
| Switching frequency (f _{OUT}) | 1...10 kHz |
| Type | Ground switching |
| Temperatures | |
| Ambient temperature (operational) / Storage temperature | -40 °C...70 °C / -40 °C...70 °C |
| EMC / shock / vibration | |
| EMC interference resistance | EN 61000-6-2:2005 |
| Shock resistance | min. 100 m/s ² (10 g) |
| Vibration resistance | min. 50 m/s ² (5 g) @ 9...200 Hz |
| CAN interface | |
| Bus system | |
| Baud rate | |
| Identifier | |

| General data | |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Type of connection / Wire connection method | Plug-in spring-type terminals (0.25 - 1.5 mm ²) / PUSH IN |
| Operating voltage | +VDD: 7...32 V DC |
| Input fuse | max. 8 A (external) |
| Optical function display | LED |
| Interface | Seriell RS232 |
| Protection degree | IP20 |
| Encapsulation compound | Polyurethane (PU) |
| Analogue inputs | |
| Number | 6 |
| Pin assignment | IN 1, IN 2, IN 3, IN 4, IN 5, IN 6 |
| Resolution | 12-bit |
| Input voltage (U _{in}) | 0...30 V DC |
| Precision | ± 2% (0.25 V DC) |
| Digital inputs | |
| Number | 4 |
| Pin assignment | IN 7, IN 8, IN 9, IN 10 |
| Input frequency (f _{in}) | ≤ 1 kHz |
| Input voltage (U _{in}) | 0...30 V DC |
| Digital outputs | |
| Number | 8 |
| Pin assignment | OUT 1, OUT 2, OUT 3, OUT 4, OUT 5, OUT 6, OUT 7, OUT 8 |
| Total output current (I _{OUT}) / Output current per channel (I _{OUT}) | ≤ 6 A / ≤ 1.5 A |
| Switching frequency (f _{OUT}) | 0...100 Hz |
| PWM output | |
| Number of | 1 |
| Pin assignment | OUT 9 |
| Output current per channel (I _{OUT}) | ≤ 1 A |
| Note | Can also be used as a digital output (ground-switching) |
| Switching frequency (f _{OUT}) | 1...10 kHz |
| Type | Ground switching |
| Temperatures | |
| Ambient temperature (operational) / Storage temperature | -40 °C...70 °C / -40 °C...70 °C |
| EMC / shock / vibration | |
| EMC interference resistance | EN 61000-6-2:2005 |
| Shock resistance | min. 100 m/s ² (10 g) |
| Vibration resistance | min. 50 m/s ² (5 g) @ 10...150 Hz |
| CAN interface | |
| Bus system | ISO 11898-2, CAN 2.0B, CAN 2.0A |
| Baud rate | 100 kbit, 125 kbit, 250 kbit, 500 kbit |
| Identifier | 11bit / 29 bit |

| Dimensions | |
|------------------------|--------------|
| Depth x width x height | 31 / 44 / 40 |
| Note | |
| | |

| Dimensions | |
|------------------------|--------------|
| Depth x width x height | 30 / 45 / 93 |
| Note | |
| | |

Ordering data

| Type | Qty. | Order No. |
|------------------------------------------------------|------|------------|
| graphically programmable logic module | 1 | 1517130000 |
| graphically programmable logic module, CAN interface | 1 | 1548720000 |
| Logic module incl. USB programming adapter | 1 | 2010680000 |

| Type | Qty. | Order No. |
|--------------------|------|------------|
| LOGIC UNIT WCU 501 | 1 | 1517130000 |
| STARTERKIT WCU 501 | 1 | 1548720000 |

You can download the software from the product catalogue on the Weidmüller website.

| Type | Qty. | Order No. |
|--------------------|------|------------|
| LOGIC UNIT WCU 650 | 1 | 2010680000 |
| STARTERKIT WCU 650 | 1 | 2007290000 |

You can download the software from the product catalogue on the Weidmüller website.



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Customer specific 1,500 V DC combiner boxes

Combiner boxes 1,500 V DC



Technical data

| |
|---------------------------------------|
| Inputs |
| Outputs |
| Current per string (A) |
| Rated voltage (V) |
| String inputs |
| Continuous operating temperature (°C) |
| Protection degree |
| Material |
| Switch disconnecter |
| Surge protection device |
| Surge protection on RS485 |
| Power supply |
| Monitoring |
| Communication port |
| Communication protocol |
| Standards |

| |
|--------------------------------------------|
| 8-32 |
| 1-2 |
| ≤ 25 A |
| ≤ 1,500 V DC |
| Cable glands or WM4 C connector |
| -20 °C to +50 °C |
| IP55 or IP65 or IP66 |
| GFRP |
| yes (optional) |
| Type I or Type I+II or Type II |
| yes (optional) |
| 230 V AC / 24 V DC or 1,500 V DC / 24 V DC |
| yes (optional) |
| RS485 |
| MODBUS/RTU |
| IEC 61439-2 ed 2.0 / EN 61439-2:2011 |

Technical data

Machinery

Process

Energy

Transportation


Device
Manufacturers


Infrastructure

WM4 C photovoltaik connector with crimp connection – Typ 4
Technical data


| | WM4 C field connector | BOX WM4 C housing connector |
|----------------------------------|---------------------------------------|---------------------------------------|
| Continuous operating temperature | -40 °C to +85 °C | -40 °C to +85 °C |
| Protection class (plugged/open) | IP 65 & IP 67 / IP 2x | IP 65 & IP 67 / IP 2x |
| Rated current | 35 A | 35 A |
| Rated voltage | 1.500V DC (IEC) | 1.500V DC (IEC) |
| Cable diameter | 4 mm ² / 6 mm ² | 4 mm ² / 6 mm ² |
| Cable exterior diameter | 5.5 ...7.0 mm | 5.5 ...7.0 mm |
| Cable as per standard | 2PG1169/08.07 & EN 50618:2014 | 2PG1169/08.07 & EN 50618:2014 |
| Thread | M16 | M12 |
| Pollution degree | II | II |
| Approvals | TÜV (DIN EN 50521) | TÜV (DIN EN 50521) |


Ordering data
WM4 C field connector

| | Type | Qty. | Order No. |
|-----------------------------------------------------------------------------------|---------------------------------|--------------|------------|
|  | BUGH WM4 C BT Female housing | 100 (in bag) | 1530690000 |


| | Type | Qty. | Order No. |
|-----------------------------------------------------------------------------------|-------------------------------|--------------|------------|
|  | SFGH WM4 C BT Male housing | 100 (in bag) | 1530700000 |


BOX WM4 C housing connector

| | Type | Qty. | Order No. |
|------------------------------------------------------------------------------------|-------------------------------------|--------------|------------|
|  | BUGH BOX WM4 C BT Female housing | 100 (in bag) | 1530630000 |

| | Type | Qty. | Order No. |
|------------------------------------------------------------------------------------|-----------------------------------|--------------|------------|
|  | SFGH BOX WM4 C BT Male housing | 100 (in bag) | 1530640000 |




Crimp contacts

| | Type | Qty. | Order No. |
|-------------------------------------------------------------------------------------|---------------------------------|-----------------|------------|
|  | BUKO WM4 C BT Female contact | 100 (in bag) | 1530670000 |
| | BUKO WM4 C RL Female contact | 1,500 (on roll) | 1530770000 |

| | Type | Qty. | Order No. |
|-------------------------------------------------------------------------------------|-------------------------------|-----------------|------------|
|  | SFKO WM4 C BT Male contact | 100 (in bag) | 1530680000 |
| | SFKO WM4 C RL Male contact | 1,500 (on roll) | 1530780000 |

Accessories and related products

| | Type | Qty. | Order No. |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------|------------|
|  | VSSO WM4 C Universal dust cap for male and female housings | 100 | 1254870000 |
|  | PVC-TV1-BK-4-1000 4 mm ² | 1 km | 1203780000 |
| | PVC-TV1-BK-6-1000 6 mm ² | 1 km | 1524740000 |
|  | multi-stripax® PV Wire stripping pliers for PV wires from 2.5 mm ² to 6 mm ² | 1 | 1190490000 |
|  | KT 8 Cutting tool | 1 | 9002650000 |

| | Type | Qty. | Order No. |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|------|------------|
|  | CTF PV WM4 C Crimping tool | 1 | 1222870000 |
|  | SCREWTY SW15 optional mounting tool for WM4 C | 1 | 1290830000 |
| | SCREWTY SW18 optional mounting tool for BOX WM4 C | 1 | 1254670000 |
|  | DMS MANUELL 0,5-1,7 Nm | 1 | 9918370000 |
| | DMS MANUELL 2,0-8,0 Nm | 1 | 9918380000 |

Cable harnessing

Individual types and cable length on request

Transclenic xi+

Transclenic 16i+ 1K5 L



Technical data

| | |
|----------------------------------|-----------------------------------------------|
| Maximum number of strings | 16 |
| Max. current per string | 15 A DC (-25...+70 °C), 25 A DC (-25...+60°C) |
| Rated voltage | 1500 V DC |
| String-current measurement error | ± 300 mA from 3 A DC to 15 A DC |
| String-voltage measurement error | ± 18 V from 150 V DC to 1,500 V |
| Communication | MODBUS RS485 RTU |
| Number of digital inputs | 2 |
| Elevation | ≤ 2000 m |
| Ambient temperature | -25 °C...70 °C |
| Supply voltage | 19,2 - 28,8 V DC |

Dimensions

| | | |
|-------------------------|----|----------------------|
| Length x width x height | mm | 368.9 / 109.5 / 92.2 |
|-------------------------|----|----------------------|

Note

Ordering data

| Type | Qty. | Order No. |
|------------------------|------|------------|
| TRANSCLINIC 16i+ 1K5 L | 1 ST | 2433950000 |

Note

Accessories

| | |
|------|--|
| Note | |
|------|--|

Technical data

Machinery

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Transportation

Device
Manufacturers

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Infrastructure



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Manufacturers



Transportation



Energy



Process



Machinery

Technical data

FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

FAD 1771-WA/WC/WB/WD



Technical data

| Rated data | |
|------------------------------------|-------------|
| Operating voltage, max. | < 300 V AC |
| Max. current per channel | 2 A |
| Total operating current | 6 A |
| General data | |
| Ambient temperature (operational) | -25...50 °C |
| Storage temperature | -40...60 °C |
| Approvals | CE |
| Insulation coordination (EN 50178) | |
| Rated insulation voltage | < 300 V AC |
| Surge voltage category | II |
| Pollution severity level | 2 |
| Insulation test voltage | 1.2 kVAC |

| |
|-------------|
| < 300 V AC |
| 2 A |
| 6 A |
| -25...50 °C |
| -40...60 °C |
| CE |
| < 300 V AC |
| II |
| 2 |
| 1.2 kVAC |

| Dimensions | |
|----------------|----------------|
| Length / Width | 269 mm / 32 mm |

| |
|----------------|
| 269 mm / 32 mm |
|----------------|

| Note | |
|------|--|
| | |

Ordering data

| | | | |
|--------------------------|-----------------------|------|------------|
| FAD for wiring-arm WA-WC | Type | Qty. | Order No. |
| FAD for wiring-arm WB-WD | FAD 1771-WA/WC BL10 M | 1 | 2448650000 |
| | FAD 1771-WB/WD BL12 M | 1 | 2448680000 |

| Type | Qty. | Order No. |
|-----------------------|------|------------|
| FAD 1771-WA/WC BL10 M | 1 | 2448650000 |
| FAD 1771-WB/WD BL12 M | 1 | 2448680000 |

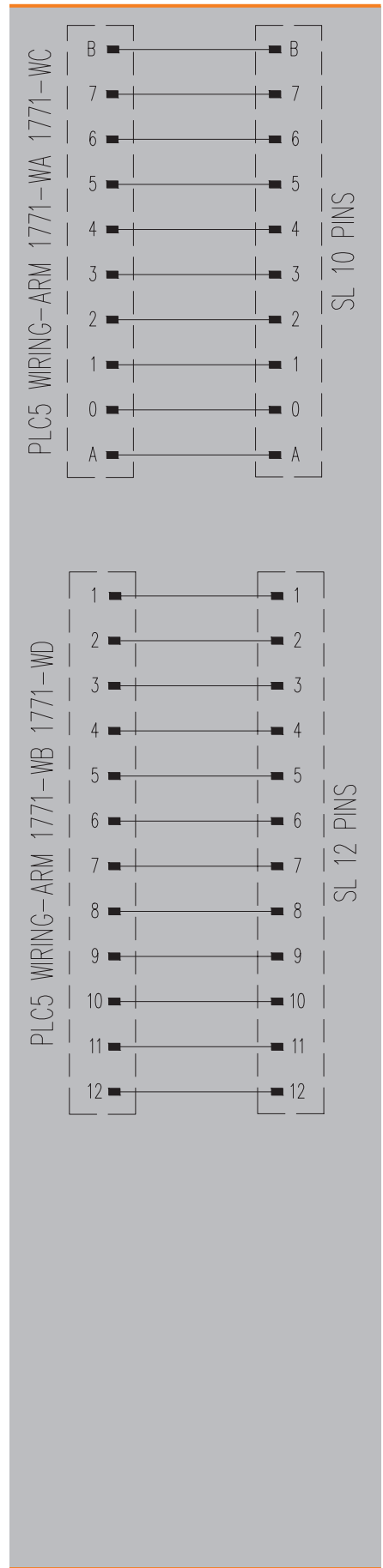
| Note | |
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Accessories

| Note | |
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| Note | |
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| Note | |
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Technical data

Machinery

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Infrastructure

FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

FAD 1771-WF/WG/WH



Technical data

| Rated data | |
|------------------------------------|-------------|
| Operating voltage, max. | < 250 V AC |
| Max. current per channel | 2 A |
| Total operating current | 8 A |
| General data | |
| Ambient temperature (operational) | -25...50 °C |
| Storage temperature | -40...60 °C |
| Approvals | CE |
| Insulation coordination (EN 50178) | |
| Rated insulation voltage | < 250 V AC |
| Surge voltage category | II |
| Pollution severity level | 2 |
| Insulation test voltage | 1.2 kVAC |

| |
|-------------|
| < 250 V AC |
| 2 A |
| 8 A |
| -25...50 °C |
| -40...60 °C |
| CE |
| < 250 V AC |
| II |
| 2 |
| 1.2 kVAC |

| Dimensions | |
|----------------|----------------|
| Length / Width | 269 mm / 32 mm |

| |
|----------------|
| 269 mm / 32 mm |
|----------------|

| Note | |
|------|--|
| | |

| | |
|--|--|
| | |
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Ordering data

| | | | |
|--------------------------|-----------------------|------|------------|
| FAD for wiring-arm WH-WG | Type | Qty. | Order No. |
| FAD for wiring-arm WF | FAD 1771-WH/WG BL21 M | 1 | 2448660000 |
| | FAD 1771-WF BL18 M | 1 | 2448690000 |

| Type | Qty. | Order No. |
|-----------------------|------|------------|
| FAD 1771-WH/WG BL21 M | 1 | 2448660000 |
| FAD 1771-WF BL18 M | 1 | 2448690000 |

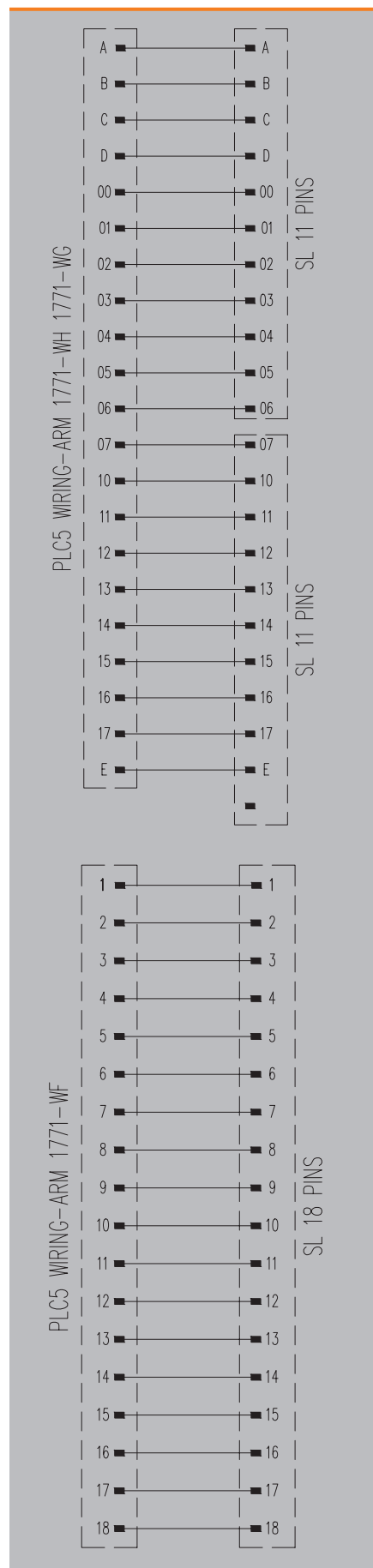
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Accessories

| Note | |
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Technical data

Machinery

Process

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Device Manufacturers

Infrastructure

FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

FAD 1771-WN



Technical data

| Rated data | |
|------------------------------------|-------------|
| Operating voltage, max. | < 250 V AC |
| Max. current per channel | 2 A |
| Total operating current | 8 A |
| General data | |
| Ambient temperature (operational) | -25...50 °C |
| Storage temperature | -40...60 °C |
| Approvals | CE |
| Insulation coordination (EN 50178) | |
| Rated insulation voltage | < 250 V AC |
| Surge voltage category | II |
| Pollution severity level | 2 |
| Insulation test voltage | 1.2 kVAC |

| |
|-------------|
| < 250 V AC |
| 2 A |
| 8 A |
| -25...50 °C |
| -40...60 °C |
| CE |
| < 250 V AC |
| II |
| 2 |
| 1.2 kVAC |

| Dimensions | |
|----------------|----------------|
| Length / Width | 269 mm / 32 mm |

| |
|----------------|
| 269 mm / 32 mm |
|----------------|

| Note | |
|------|--|
| | |

| | |
|--|--|
| | |
|--|--|

Ordering data

| |
|-----------------------|
| FAD for wiring-arm WN |
|-----------------------|

| Type | Qty. | Order No. |
|---------------------|------|------------|
| FAD 1771-WN 2BL20 M | 1 | 2448670000 |

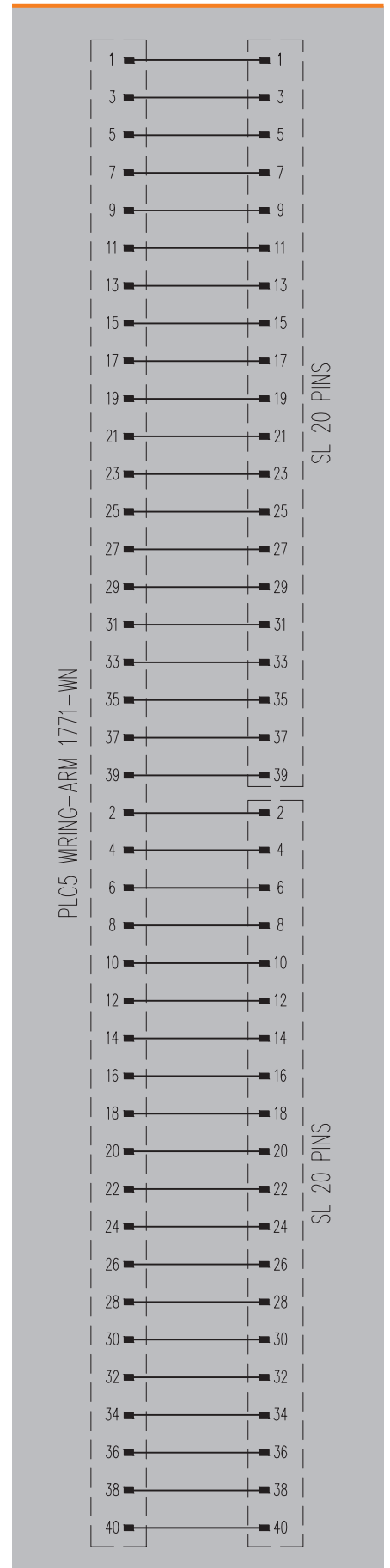
| Note | |
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Accessories

| Note | |
|------|--|
| | |

| | |
|--|--|
| | |
|--|--|





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 12-, 22-point cards

IPC620 carrier



Technical data

| Rated data | |
|-----------------------------------|-----------|
| Operating voltage | 150 V |
| Max. current per channel | 5 A |
| General data | |
| Ambient temperature (operational) | 0...50 °C |
| Storage temperature | 0...50 °C |
| Approvals | |

| Dimensions | |
|-------------------------|------------------------|
| Length / Width / Height | 266 mm / 29 mm / 61 mm |

| Note | |
|------|--|
| | |

Ordering data

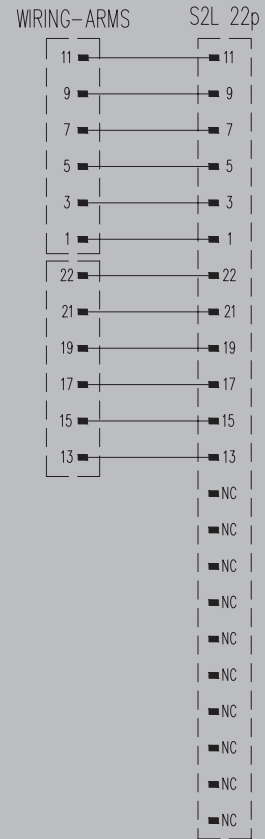
| Type | Qty. | Order No. |
|---------------------------------------------|------|-------------------|
| 12-point (Reference Honeywell TB 621-9949) | 1 | 6720000787 |
| 22-points (Reference Honeywell TB 621-9950) | 1 | 6720000788 |

| Note | |
|------|--|
| | |

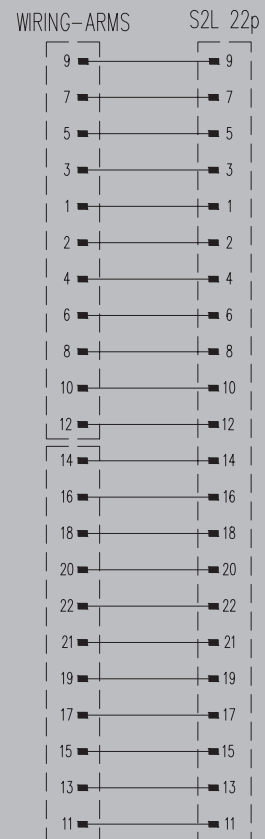
Accessories

| Note | |
|------|--|
| | |

12-points IPC620 card adapter



22-points IPC620 card adapter



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 38-point cards

IPC620 carrier



Technical data

| Rated data |
|-----------------------------------|
| Operating voltage |
| Max. current per channel |
| General data |
| Ambient temperature (operational) |
| Storage temperature |
| Approvals |

| |
|-----------|
| 125 V |
| 3 A |
| 0...50 °C |
| 0...50 °C |

| Dimensions |
|-------------------------|
| Length / Width / Height |

| |
|-------------------------|
| 266 mm / 29 mm / 126 mm |
|-------------------------|

| Note |
|------|
| |

Ordering data

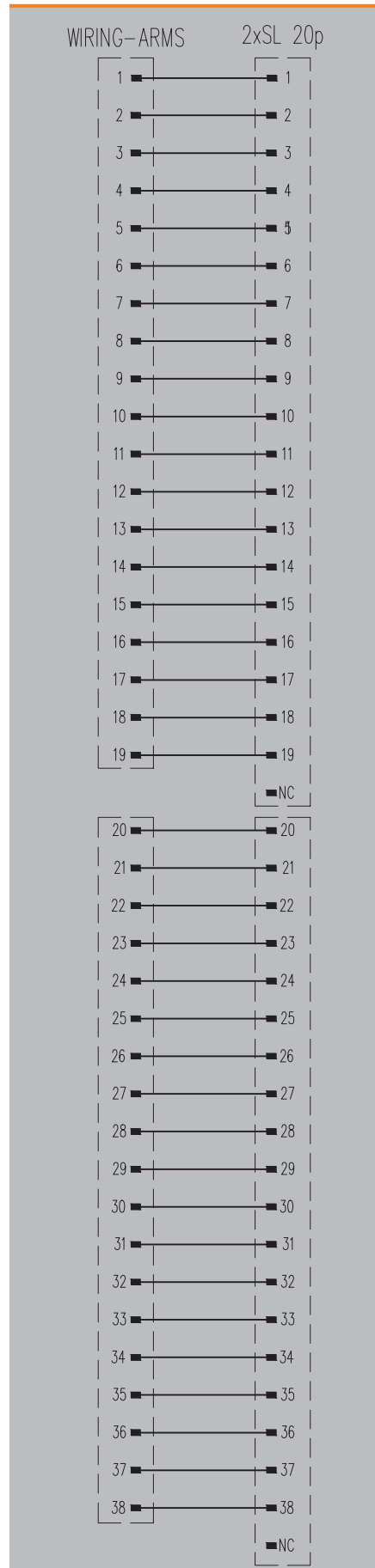
| |
|------------------------------------------------------|
| 38-points (Reference Honeywell TB 621-9977 or -9976) |
|------------------------------------------------------|

| Type | Qty. | Order No. |
|-------------------------------|------|------------|
| 38-point IPC-620 card adapter | 1 | 6720001225 |

| Note |
|------|
| |

Accessories

| Note |
|------|
| |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 24-point cards

IPC620 carrier



Technical data

| Rated data | |
|-----------------------------------|-----------|
| Operating voltage | 50 V |
| Max. current per channel | 3 A |
| General data | |
| Ambient temperature (operational) | 0...50 °C |
| Storage temperature | 0...50 °C |
| Approvals | |

| | |
|-----------------------------------|-----------|
| Operating voltage | 50 V |
| Max. current per channel | 3 A |
| Ambient temperature (operational) | 0...50 °C |
| Storage temperature | 0...50 °C |
| Approvals | |

| Dimensions | |
|-------------------------|------------------------|
| Length / Width / Height | 266 mm / 29 mm / 50 mm |

| | |
|-------------------------|------------------------|
| Length / Width / Height | 266 mm / 29 mm / 50 mm |
|-------------------------|------------------------|

| Note |
|------|
| |

| Note |
|------|
| |

Ordering data

| |
|---------------------------------------------|
| 24-points (Reference Honeywell TB 621-9954) |
|---------------------------------------------|

| Type | Qty. | Order No. |
|-------------------------------|------|------------|
| 24-point IPC-620 card adapter | 1 | 6720001226 |

| Note |
|------|
| |

| Note |
|------|
| |

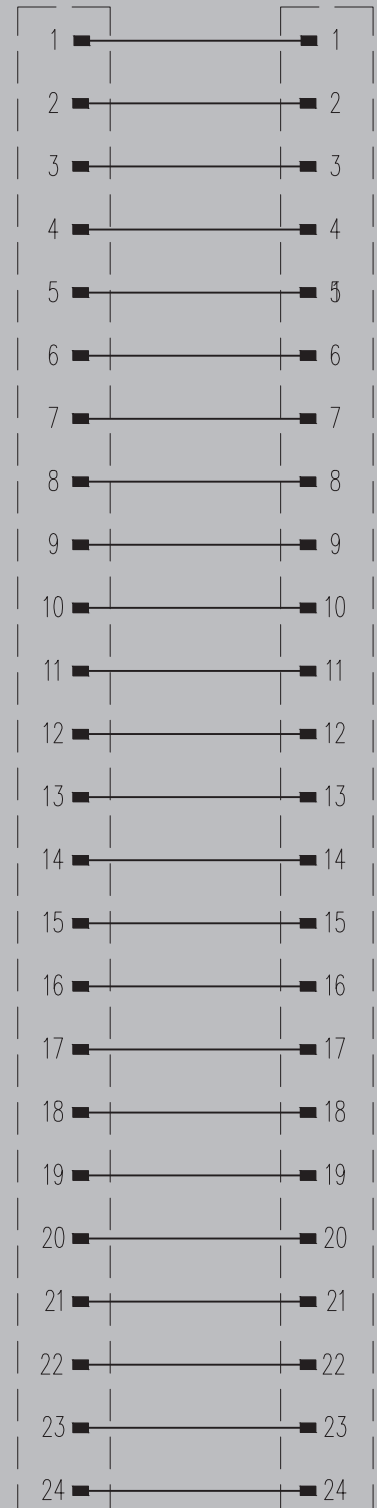
Accessories

| Note |
|------|
| |

| Note |
|------|
| |

WIRING-ARM

S2L 24p





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Backplane with SIL 3 relays for Yokogawa Pro-safe SDV541

- 2 AKB connectors (50 poles) for redundancy
- Green LED shows relays switching status
- Monotorization of the Power supply status with green LED and alarm contact (24 V DC / 2...100 mA): close contact and led shinning means no supply fault.
- 2 versions with De-energized to Safe SIL relays with and without monitoring
- Screw connection

BKP-16DO-SDV541



Technical data

| | |
|-------------------------------------------|-----------------------------------------------|
| Connected to | Connection to the card |
| Connection data and functionality | Connection on control side |
| | Relay type |
| | Power supply fuse |
| Input (safety circuit) | |
| | Rated control voltage |
| | Power consumption |
| | Guaranteed current consumption of 24 VDC -10% |
| | Status indicator |
| Output (safety circuit) | |
| | Base material of the contact / Contact design |
| | max. permitted switching voltage |
| | max. permitted switching current |
| | max. switching current, internal fuse |
| | max. switching current, external fuse |
| | Switching capacity min./max. |
| | Internal fuse |
| | Short-circuit-proof |
| | Switch-on time / Switch-off time |
| General data | |
| | Ambient temperature (operational) |
| | Storage temperature |
| Insulation coordination (EN 50178) | |
| | Rated input insulation voltage |
| | Rated output insulation voltage |
| | Overvoltage category input/output |
| | Overvoltage category input/input |
| | Overvoltage category output/output |
| | Pollution severity level |
| | Pulse voltage test (1,2/50µs) |
| | Insulation test voltage |
| | Clearance input/output |
| Dimensions | |
| | Clamping range, min./max. (field) |
| | Clamping range, min./max. (supply) |
| | Mounting rail |
| | Length x width |
| Note | |

| | |
|-------------------------|--------------------------------------------------------------------------------------------------|
| | SDV541 |
| | 2 x AKB (50P) |
| | SIL3 |
| | 2 A |
| | 24 V DC ± 20% |
| | 42 mA |
| | 35 mA |
| | LED yellow |
| | AgNi 0.15 gold flashed / NO contact |
| | 250 V AC / 30 V DC |
| | 8 A |
| | 5 A (refer to derating curve) |
| | 5 A (refer to derating curve) |
| | 12 V / 10 mA / 2000 VA |
| | 5 A time-lag |
| | No |
| | typ. 7 ms / typ. 14 ms |
| | -25...50 °C |
| | -40...85 °C |
| | 50 V AC / 70 V DC |
| | < 300 V AC |
| | III |
| | III |
| | III |
| | 2 |
| | 6 kV |
| | 1.2 kVAC |
| | ≥ 5.5 mm |
| Screw connection | |
| | 0.13 mm ² / 2.5 mm ² |
| | 0.13 mm ² / 6 mm ² |
| | TS 35 |
| | 376 mm / 168 mm |
| | For more technical data about SIL relays 1303890000 and 1303760000 check catalog.weidmueller.com |

Ordering data

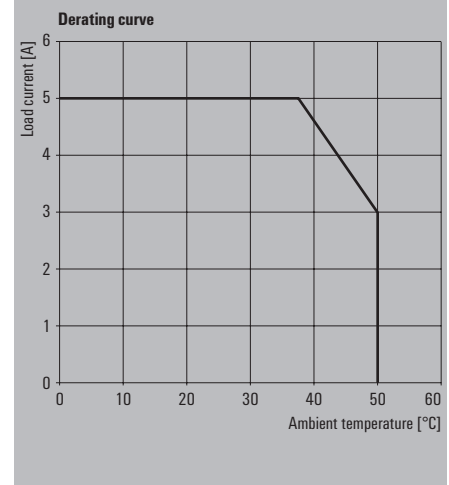
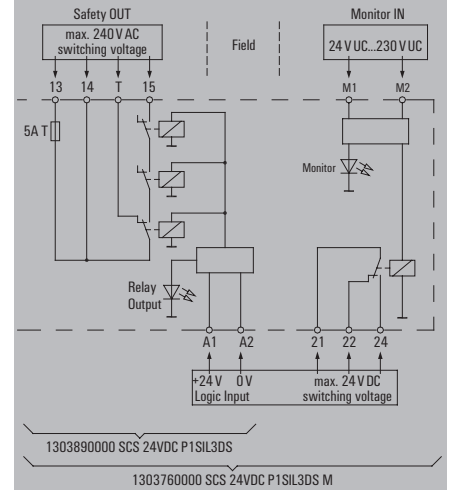
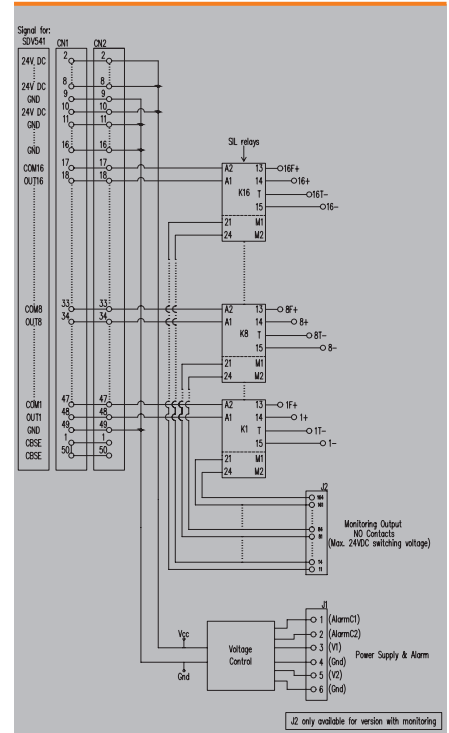
| | |
|-------------|-----------------------------------------|
| | De-energized to Safe without monitoring |
| | De-energized to Safe with monitoring |
| Note | |

| Type | Height | Order No. |
|----------------------|--------|------------|
| BKP-16DO-SDV541-V0-S | 125 mm | 2461730000 |
| BKP-16DO-SDV541-V1-S | 125 mm | 2436230000 |

Accessories

| | |
|-------------|------------------------------|
| | Supply fuse |
| | SIL relay without monitoring |
| | SIL relay with monitoring |
| | Relay (for alarm) |
| Note | |

| Type | Qty. | Order No. |
|----------------------|------|------------|
| G 20/2.00A/F | 10 | 0430900000 |
| SCS 24VDC P1SIL3DS | 1 | 1303890000 |
| SCS 24VDC P1SIL3DS M | 1 | 1303760000 |
| RSS112024 | 20 | 4061590000 |





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Size 3

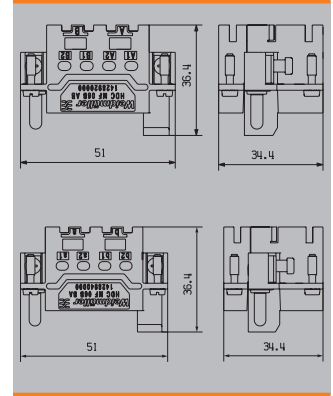
ModuPlug® metal frame

Frame



| Deployment | Type | Order No. |
|------------|--------------|------------|
| | HDC MF 6B AB | 1428920000 |
| | HDC MF 6B BA | 1428940000 |

Note 2 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock

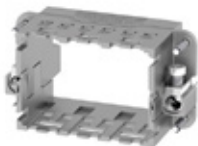
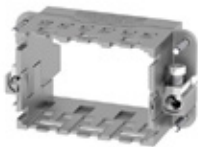


| Transport lock for ModuPlug® metal frame | | |
|------------------------------------------|--|------------|
| HDC MF FIXING | | 1480290000 |

Size 4

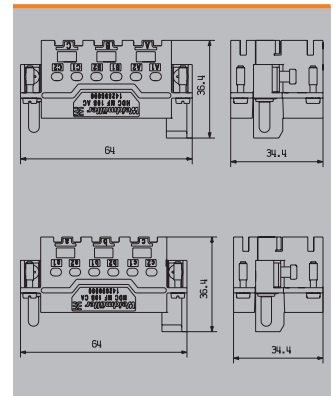
ModuPlug® metal frame

Frame



| Deployment | Type | Order No. |
|------------|---------------|------------|
| | HDC MF 10B AC | 1428960000 |
| | HDC MF 10B CA | 1428980000 |

Note 3 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



| Transport lock for ModuPlug® metal frame | | |
|------------------------------------------|--|------------|
| HDC MF FIXING | | 1480290000 |

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

Size 6

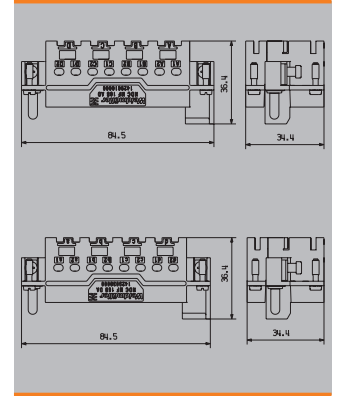
ModuPlug® metal frame

Frame



| Deployment | Type | Order No. |
|------------|---------------|------------|
| | HDC MF 16B AD | 1429010000 |
| | HDC MF 16B DA | 1429030000 |

Note 4 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



| Transport lock for ModuPlug® metal frame | | |
|------------------------------------------|--|------------|
| HDC MF FIXING | | 1480290000 |

Size 8

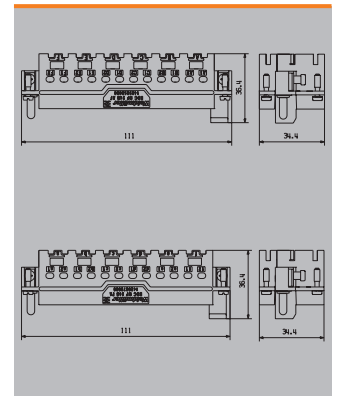
ModuPlug® metal frame

Frame



| Deployment | Type | Order No. |
|------------|---------------|------------|
| | HDC MF 24B AF | 1429050000 |
| | HDC MF 24B FA | 1429070000 |

Note 6 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



| Transport lock for ModuPlug® metal frame | | |
|------------------------------------------|--|------------|
| HDC MF FIXING | | 1480290000 |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

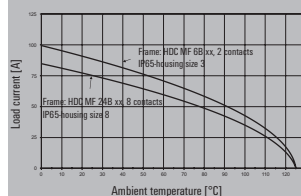
ModuPlug® HDC MHP 100

Technical data

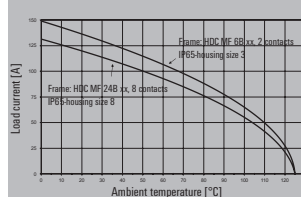
| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 2 |
| Rated current (DIN EN 61984) | 100 A |
| Rated voltage (DIN EN 61984) | 1000 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1.5 |

Note

HDC-MHP100-modules in the IP65-housing,
Conductor H07V-K10:



HDC-MHP100-modules in the IP65-housing,
Conductor H07V-K35:

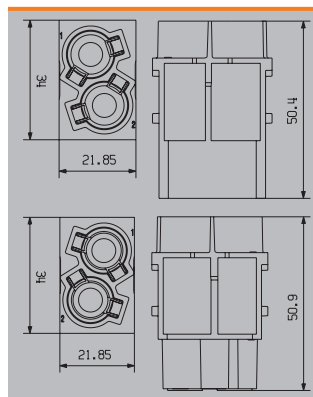


Crimp connection



| Deployment | Type | Order No. |
|------------|----------------|------------|
| Male | HDC MHP 100 MC | 1429060000 |
| Female | HDC MHP 100 FC | 1429080000 |

Note



Accessories

Crimp contacts

Surface finish silver



| Male | | | Female | | |
|------|-----------------|------------|-----------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 10 | HDC MHP100 M 10 | 1435750000 | HDC MHP100 F 10 | 1435790000 | 1435790000 |
| 10 | HDC MHP100 M 16 | 1435760000 | HDC MHP100 F 16 | 1435810000 | 1435810000 |
| 10 | HDC MHP100 M 25 | 1435770000 | HDC MHP100 F 25 | 1435820000 | 1435820000 |
| 10 | HDC MHP100 M 35 | 1435780000 | HDC MHP100 F 35 | 1435830000 | 1435830000 |

Tools



| | |
|-----------------------------|-----------------------------------------------|
| Crimping tool | |
| MTR 110 | 9018020000 |
| Contact Removal Tool | |
| HDC MHP REMOVAL TOOL | 1480380000 |
| Note | Overview of the crimping inserts in chapter J |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

ModuPlug®
HDC MHX 4P

Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 4 |
| Rated current (DIN EN 61984) | 40 A |
| Rated voltage (DIN EN 61984) | 830 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

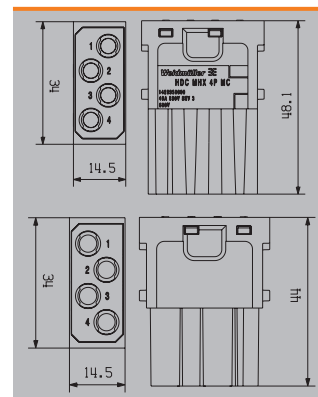
Note

Crimp connection



| Deployment | Type | Order No. |
|------------|---------------|------------|
| Male | HDC MHX 4P MC | 1428950000 |
| Female | HDC MHX 4P FC | 1428970000 |

Note



Accessories

Crimp contacts

Surface finish silver



| Male | | | Female | | |
|------|------------------|------------|------------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 25 | HDC C HX SM1.5AG | 1002910000 | HDC C HX BM1.5AG | 1002950000 | 1002950000 |
| 25 | HDC C HX SM2.5AG | 1002920000 | HDC C HX BM2.5AG | 1002960000 | 1002960000 |
| 25 | HDC C HX SM4.0AG | 1002930000 | HDC C HX BM4.0AG | 1002970000 | 1002970000 |
| 25 | HDC C HX SM6.0AG | 1002940000 | HDC C HX BM6.0AG | 1002980000 | 1002980000 |

Tools



| Crimping tool | |
|----------------------|------------|
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| Removal Tool HX | 1002990000 |
| Note | |

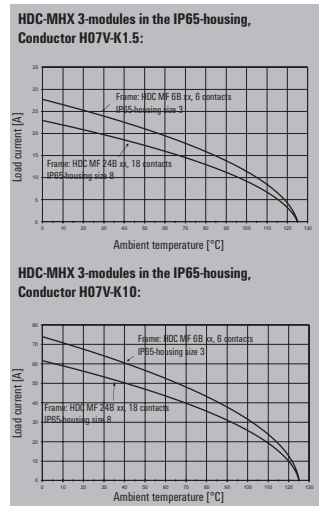


ModuPlug®
HDC MHX 3

Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 3 |
| Rated current (DIN EN 61984) | 40 A |
| Rated voltage (DIN EN 61984) | 690 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

Note

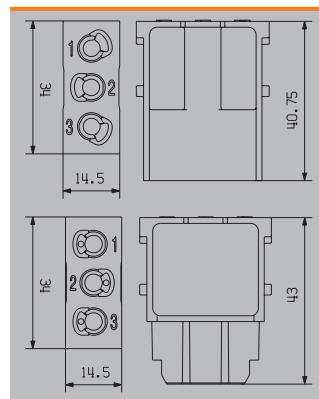


Crimp connection



| Deployment | Type | Order No. |
|------------|--------------|------------|
| Male | HDC MHX 3 MC | 1429340000 |
| Female | HDC MHX 3 FC | 1429350000 |

Note



Accessories

Crimp contacts

Surface finish silver



| Male | | | Female | | |
|------|--------------------|------------|--------------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 25 | HDC C HX SM1.5AG | 1002910000 | HDC C HX BM1.5AG | 1002950000 | 1002950000 |
| 25 | HDC C HX SM2.5AG | 1002920000 | HDC C HX BM2.5AG | 1002960000 | 1002960000 |
| 25 | HDC C HX SM4.0AG | 1002930000 | HDC C HX BM4.0AG | 1002970000 | 1002970000 |
| 25 | HDC C HX SM6.0AG | 1002940000 | HDC C HX BM6.0AG | 1002980000 | 1002980000 |
| 25 | HDC C MHX SM10.0AG | 2494550000 | HDC C MHX BM10.0AG | 2494560000 | 2494560000 |

Tools



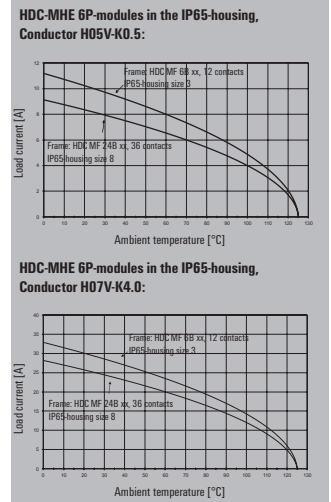
| Crimping tool | |
|----------------------|------------|
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| Removal Tool HX | 1002990000 |
| Note | |

ModuPlug®
HDC MHE 6P

Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 6 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 830 V |
| Rated impulse voltage (DIN EN 61984) | 8 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

Note

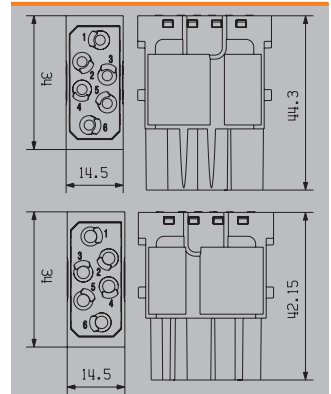


Crimp connection



| Deployment | Type | Order No. |
|------------|---------------|------------|
| Male | HDC MHE 6P MC | 1505650000 |
| Female | HDC MHE 6P FC | 1505660000 |

Note



Accessories

Crimp contacts

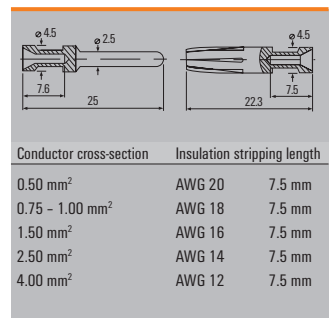
Surface finish gold



Surface finish silver



| Male | | | Female | | |
|------|------------------------|------------|------------------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 100 | HDC-C-HE-SM0.5AU | 1651420000 | HDC-C-HE-BM0.5AU | 1651470000 | 1651470000 |
| 100 | HDC-C-HE-SM0.75-1.00AU | 1651430000 | HDC-C-HE-BM0.75-1.00AU | 1651480000 | 1651480000 |
| 100 | HDC-C-HE-SM1.5AU | 1651440000 | HDC-C-HE-BM1.5AU | 1651490000 | 1651490000 |
| 100 | HDC-C-HE-SM2.5AU | 1651450000 | HDC-C-HE-BM2.5AU | 1651500000 | 1651500000 |
| 100 | HDC-C-HE-SM4.0AU | 1651460000 | HDC-C-HE-BM4.0AU | 1651510000 | 1651510000 |
| 100 | HDC-C-HE-SM4.65AU | 1116540000 | HDC-C-HE-BM4.65AU | 1116530000 | 1116530000 |
| 100 | HDC-C-HE-SM0.5AG | 1200500000 | HDC-C-HE-BM0.5AG | 1201100000 | 1201100000 |
| 100 | HDC-C-HE-SM0.75-1.00AG | 1200600000 | HDC-C-HE-BM0.75-1.00AG | 1201200000 | 1201200000 |
| 100 | HDC-C-HE-SM1.5AG | 1200700000 | HDC-C-HE-BM1.5AG | 1201300000 | 1201300000 |
| 100 | HDC-C-HE-SM2.5AG | 1200800000 | HDC-C-HE-BM2.5AG | 1201400000 | 1201400000 |
| 100 | HDC-C-HE-SM4.0AG | 1200900000 | HDC-C-HE-BM4.0AG | 1201500000 | 1201500000 |



Tools



| Crimping tool | |
|-----------------|------------|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |

| Contact Removal Tool | |
|----------------------|------------|
| Removal Tool HE | 1866750000 |

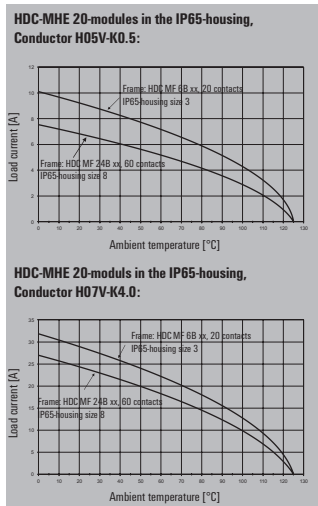
Note

ModuPlug®
HDC MHE 20

Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 20 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 500 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 2 |

Note

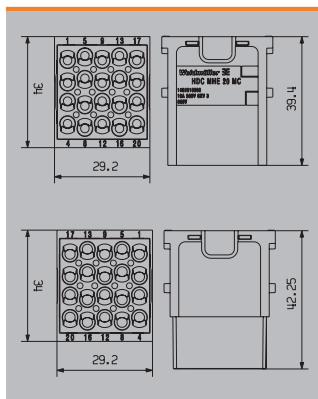


Crimp connection



| Deployment | Type | Order No. |
|------------|---------------|------------|
| Male | HDC MHE 20 MC | 1428910000 |
| Female | HDC MHE 20 FC | 1428930000 |

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



| Male | | | Female | | |
|------|------------------------|------------|------------------------|------------|-----------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 100 | HDC-C-HE-SM0.5AU | 1651420000 | HDC-C-HE-BM0.5AU | 1651470000 | |
| 100 | HDC-C-HE-SM0.75-1.00AU | 1651430000 | HDC-C-HE-BM0.75-1.00AU | 1651480000 | |
| 100 | HDC-C-HE-SM1.5AU | 1651440000 | HDC-C-HE-BM1.5AU | 1651490000 | |
| 100 | HDC-C-HE-SM2.5AU | 1651450000 | HDC-C-HE-BM2.5AU | 1651500000 | |
| 100 | HDC-C-HE-SM4.0AU | 1651460000 | HDC-C-HE-BM4.0AU | 1651510000 | |
| 100 | HDC-C-HE-SM4.65AU | 1116540000 | HDC-C-HE-BM4.65AU | 1116530000 | |
| 100 | HDC-C-HE-SM0.5AG | 1200500000 | HDC-C-HE-BM0.5AG | 1201100000 | |
| 100 | HDC-C-HE-SM0.75-1.00AG | 1200600000 | HDC-C-HE-BM0.75-1.00AG | 1201200000 | |
| 100 | HDC-C-HE-SM1.5AG | 1200700000 | HDC-C-HE-BM1.5AG | 1201300000 | |
| 100 | HDC-C-HE-SM2.5AG | 1200800000 | HDC-C-HE-BM2.5AG | 1201400000 | |
| 100 | HDC-C-HE-SM4.0AG | 1200900000 | HDC-C-HE-BM4.0AG | 1201500000 | |

| Conductor cross-section | Insulation stripping length |
|-----------------------------|-----------------------------|
| 0.50 mm ² | AWG 20 7.5 mm |
| 0.75 - 1.00 mm ² | AWG 18 7.5 mm |
| 1.50 mm ² | AWG 16 7.5 mm |
| 2.50 mm ² | AWG 14 7.5 mm |
| 4.00 mm ² | AWG 12 7.5 mm |

Tools



| Crimping tool | |
|----------------------|------------|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| Removal Tool HE | 1866750000 |

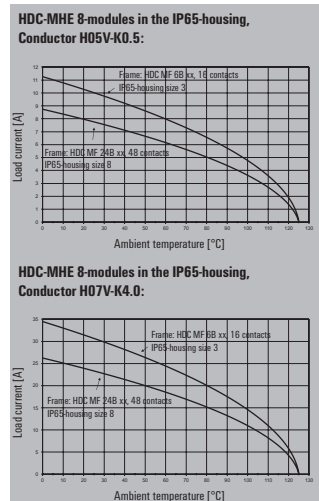
Note

ModuPlug®
HDC MHE 8

Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 8 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 400 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

Note

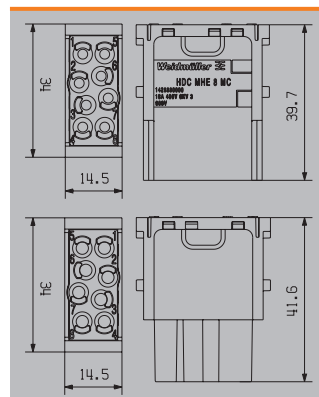


Crimp connection



| Deployment | Type | Order No. |
|------------|--------------|------------|
| Male | HDC MHE 8 MC | 1428880000 |
| Female | HDC MHE 8 FC | 1428890000 |

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



| Male | | | Female | | |
|------|------------------------|------------|------------------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 100 | HDC-C-HE-SM0.5AU | 1651420000 | HDC-C-HE-BM0.5AU | 1651470000 | 1651470000 |
| 100 | HDC-C-HE-SM0.75-1.00AU | 1651430000 | HDC-C-HE-BM0.75-1.00AU | 1651480000 | 1651480000 |
| 100 | HDC-C-HE-SM1.5AU | 1651440000 | HDC-C-HE-BM1.5AU | 1651490000 | 1651490000 |
| 100 | HDC-C-HE-SM2.5AU | 1651450000 | HDC-C-HE-BM2.5AU | 1651500000 | 1651500000 |
| 100 | HDC-C-HE-SM4.0AU | 1651460000 | HDC-C-HE-BM4.0AU | 1651510000 | 1651510000 |
| 100 | HDC-C-HE-SM4.65AU | 1116540000 | HDC-C-HE-BM4.65AU | 1116530000 | 1116530000 |
| 100 | HDC-C-HE-SM0.5AG | 1200500000 | HDC-C-HE-BM0.5AG | 1201100000 | 1201100000 |
| 100 | HDC-C-HE-SM0.75-1.00AG | 1200600000 | HDC-C-HE-BM0.75-1.00AG | 1201200000 | 1201200000 |
| 100 | HDC-C-HE-SM1.5AG | 1200700000 | HDC-C-HE-BM1.5AG | 1201300000 | 1201300000 |
| 100 | HDC-C-HE-SM2.5AG | 1200800000 | HDC-C-HE-BM2.5AG | 1201400000 | 1201400000 |
| 100 | HDC-C-HE-SM4.0AG | 1200900000 | HDC-C-HE-BM4.0AG | 1201500000 | 1201500000 |

| Conductor cross-section | Insulation stripping length |
|-----------------------------|-----------------------------|
| 0.50 mm ² | AWG 20 7.5 mm |
| 0.75 - 1.00 mm ² | AWG 18 7.5 mm |
| 1.50 mm ² | AWG 16 7.5 mm |
| 2.50 mm ² | AWG 14 7.5 mm |
| 4.00 mm ² | AWG 12 7.5 mm |

Tools



| Crimping tool | |
|----------------------|------------|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| Removal Tool HE | 1866750000 |

Note

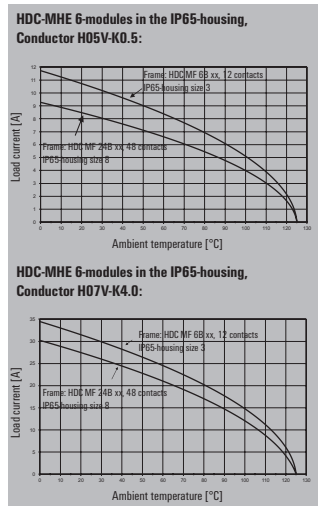


ModuPlug®
HDC MHE 6

Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 6 |
| Rated current (DIN EN 61984) | 16 A |
| Rated voltage (DIN EN 61984) | 500 V |
| Rated impulse voltage (DIN EN 61984) | 6 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

Note

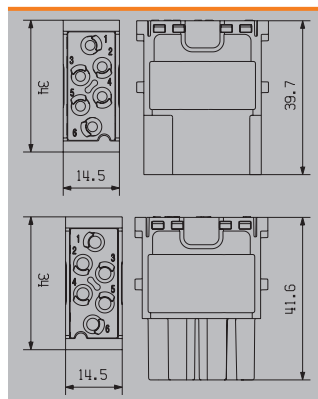


Crimp connection



| Deployment | Type | Order No. |
|------------|--------------|------------|
| Male | HDC MHE 6 MC | 1429360000 |
| Female | HDC MHE 6 FC | 1429370000 |

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



| Male | | | Female | | |
|------|------------------------|------------|------------------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 100 | HDC-C-HE-SM0.5AU | 1651420000 | HDC-C-HE-BM0.5AU | 1651470000 | 1651470000 |
| 100 | HDC-C-HE-SM0.75-1.00AU | 1651430000 | HDC-C-HE-BM0.75-1.00AU | 1651480000 | 1651480000 |
| 100 | HDC-C-HE-SM1.5AU | 1651440000 | HDC-C-HE-BM1.5AU | 1651490000 | 1651490000 |
| 100 | HDC-C-HE-SM2.5AU | 1651450000 | HDC-C-HE-BM2.5AU | 1651500000 | 1651500000 |
| 100 | HDC-C-HE-SM4.0AU | 1651460000 | HDC-C-HE-BM4.0AU | 1651510000 | 1651510000 |
| 100 | HDC-C-HE-SM4.65AU | 1116540000 | HDC-C-HE-BM4.65AU | 1116530000 | 1116530000 |
| 100 | HDC-C-HE-SM0.5AG | 1200500000 | HDC-C-HE-BM0.5AG | 1201100000 | 1201100000 |
| 100 | HDC-C-HE-SM0.75-1.00AG | 1200600000 | HDC-C-HE-BM0.75-1.00AG | 1201200000 | 1201200000 |
| 100 | HDC-C-HE-SM1.5AG | 1200700000 | HDC-C-HE-BM1.5AG | 1201300000 | 1201300000 |
| 100 | HDC-C-HE-SM2.5AG | 1200800000 | HDC-C-HE-BM2.5AG | 1201400000 | 1201400000 |
| 100 | HDC-C-HE-SM4.0AG | 1200900000 | HDC-C-HE-BM4.0AG | 1201500000 | 1201500000 |

| Conductor cross-section | Insulation stripping length |
|-----------------------------|-----------------------------|
| 0.50 mm ² | AWG 20 7.5 mm |
| 0.75 - 1.00 mm ² | AWG 18 7.5 mm |
| 1.50 mm ² | AWG 16 7.5 mm |
| 2.50 mm ² | AWG 14 7.5 mm |
| 4.00 mm ² | AWG 12 7.5 mm |

Tools



| Crimping tool | |
|----------------------|------------|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| Removal Tool HE | 1866750000 |
| Note | |

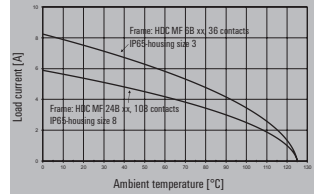
ModuPlug®
HDC MHD 36

Technical data

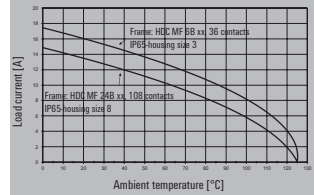
| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 36 |
| Rated current (DIN EN 61984) | 10 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 2 |

Note

HDC-MHD 36-modules in the IP65-housing, Conductor H05V-K0.5:



HDC-MHD 36-modules in the IP65-housing, Conductor H07V-K2.5:



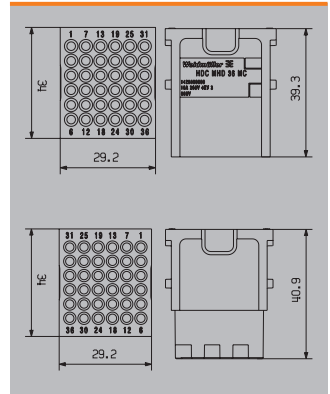
Modules

Crimp connection



| Deployment | Type | Order No. |
|------------|---------------|------------|
| Male | HDC MHD 36 MC | 1428860000 |
| Female | HDC MHD 36 FC | 1428870000 |

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



| Male | | | Female | | |
|------|------------------------|------------|------------------------|------------|-----------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 100 | HDC-C-HD-SM0.14-0.37AU | 1651620000 | HDC-C-HD-BM0.14-0.37AU | 1651670000 | |
| 100 | HDC-C-HD-SM0.5AU | 1651630000 | HDC-C-HD-BM0.5AU | 1651680000 | |
| 100 | HDC-C-HD-SM0.75-1.00AU | 1651640000 | HDC-C-HD-BM0.75-1.00AU | 1651690000 | |
| 100 | HDC-C-HD-SM1.5AU | 1651650000 | HDC-C-HD-BM1.5AU | 1651700000 | |
| 100 | HDC-C-HD-SM2.5AU | 1651660000 | HDC-C-HD-BM2.5AU | 1651710000 | |
| 100 | HDC-C-HD-SM0.14-0.37AG | 1651520000 | HDC-C-HD-BM0.14-0.37AG | 1651570000 | |
| 100 | HDC-C-HD-SM0.5AG | 1651530000 | HDC-C-HD-BM0.5AG | 1651580000 | |
| 100 | HDC-C-HD-SM0.75-1.00AG | 1601750000 | HDC-C-HD-BM0.75-1.00AG | 1601760000 | |
| 100 | HDC-C-HD-SM1.5AG | 1651550000 | HDC-C-HD-BM1.5AG | 1651600000 | |
| 100 | HDC-C-HD-SM2.5AG | 1651560000 | HDC-C-HD-BM2.5AG | 1651610000 | |

| Conductor cross-section | Insulation stripping length |
|-----------------------------|-----------------------------|
| 0.14 - 0.37 mm ² | AWG 26-22 8 mm |
| 0.50 mm ² | AWG 20 8 mm |
| 0.75 - 1.00 mm ² | AWG 18 8 mm |
| 1.50 mm ² | AWG 16 8 mm |
| 2.50 mm ² | AWG 14 6 mm |

Tools



| Crimping tool | |
|----------------------|------------|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| REMOVAL TOOL HD | 1866730000 |
| Note | |

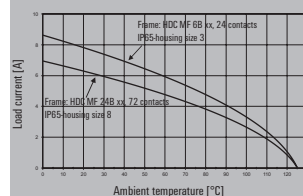
ModuPlug® HDC MHD 12

Technical data

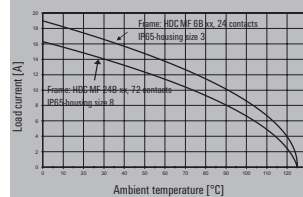
| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | 12 |
| Rated current (DIN EN 61984) | 10 A |
| Rated voltage (DIN EN 61984) | 250 V |
| Rated impulse voltage (DIN EN 61984) | 4 kV |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | 600 V |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

Note

HDC-MHD 12-modules in the IP65-housing,
Conductor H05V-K0.5:



HDC-MHD 12-modules in the IP65-housing,
Conductor H07V-K2.5:

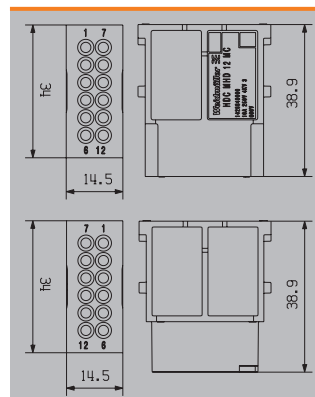


Crimp connection



| Deployment | Type | Order No. |
|------------|---------------|------------|
| Male | HDC MHD 12 MC | 1428840000 |
| Female | HDC MHD 12 FC | 1428850000 |

Note



Accessories

Crimp contacts

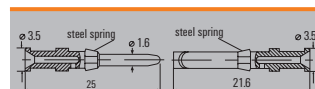
Surface finish gold



Surface finish silver



| Male | | | Female | | |
|------|------------------------|------------|------------------------|------------|------------|
| Qty. | Type | Order No. | Type | Order No. | Order No. |
| 100 | HDC-C-HD-SM0.14-0.37AU | 1651620000 | HDC-C-HD-BM0.14-0.37AU | 1651670000 | 1651670000 |
| 100 | HDC-C-HD-SM0.5AU | 1651630000 | HDC-C-HD-BM0.5AU | 1651680000 | 1651680000 |
| 100 | HDC-C-HD-SM0.75-1.00AU | 1651640000 | HDC-C-HD-BM0.75-1.00AU | 1651690000 | 1651690000 |
| 100 | HDC-C-HD-SM1.5AU | 1651650000 | HDC-C-HD-BM1.5AU | 1651700000 | 1651700000 |
| 100 | HDC-C-HD-SM2.5AU | 1651660000 | HDC-C-HD-BM2.5AU | 1651710000 | 1651710000 |
| 100 | HDC-C-HD-SM0.14-0.37AG | 1651520000 | HDC-C-HD-BM0.14-0.37AG | 1651570000 | 1651570000 |
| 100 | HDC-C-HD-SM0.5AG | 1651530000 | HDC-C-HD-BM0.5AG | 1651580000 | 1651580000 |
| 100 | HDC-C-HD-SM0.75-1.00AG | 1601750000 | HDC-C-HD-BM0.75-1.00AG | 1601760000 | 1601760000 |
| 100 | HDC-C-HD-SM1.5AG | 1651550000 | HDC-C-HD-BM1.5AG | 1651600000 | 1651600000 |
| 100 | HDC-C-HD-SM2.5AG | 1651560000 | HDC-C-HD-BM2.5AG | 1651610000 | 1651610000 |



| Conductor cross-section | Insulation stripping length |
|-----------------------------|-----------------------------|
| 0.14 - 0.37 mm ² | AWG 26-22 8 mm |
| 0.50 mm ² | AWG 20 8 mm |
| 0.75 - 1.00 mm ² | AWG 18 8 mm |
| 1.50 mm ² | AWG 16 8 mm |
| 2.50 mm ² | AWG 14 6 mm |

Tools



| Crimping tool | |
|----------------------|------------|
| CTX CM 1.6/2.5 | 9018490000 |
| CTIN CM 1.6/2.5 | 9205430000 |
| Contact Removal Tool | |
| REMOVAL TOOL HD | 1866730000 |

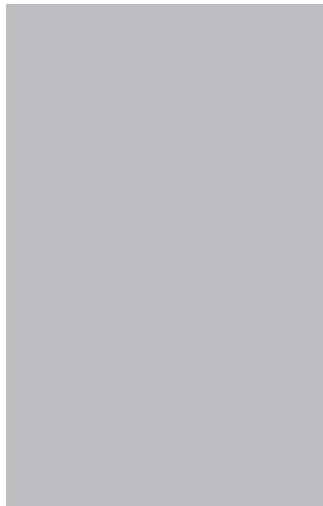
Note

ModuPlug®
HDC MBUS 2

Technical data

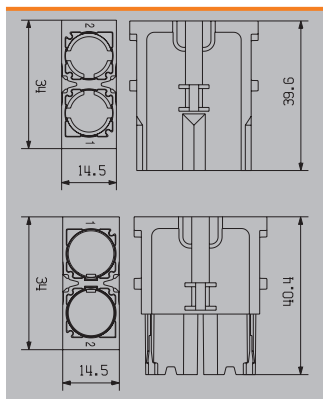
| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | |
| Rated current (DIN EN 61984) | |
| Rated voltage (DIN EN 61984) | |
| Rated impulse voltage (DIN EN 61984) | |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | III |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 1 |

Note



| Deployment | Type | Order No. |
|------------|---------------|------------|
| Male | HDC MBUS 2 MC | 1428990000 |
| Female | HDC MBUS 2 FC | 1429020000 |

Note



Fixing clip



| Fixing clip | |
|------------------|------------|
| HDC MBUS 2 MCLIP | 1989290000 |
| HDC MBUS 2 PCLIP | 1989300000 |

Note MCLIP = metal version; PCLIP = plastic version

**ModuPlug®
HDC MDU**

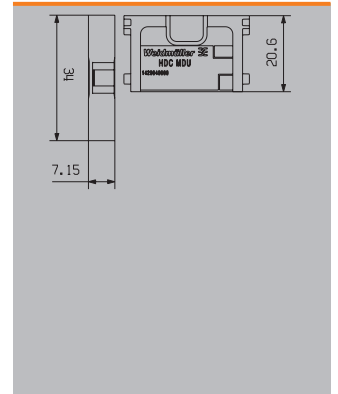
Technical data

| Contact inserts | |
|--------------------------------------|---------------------------------------|
| No. of poles | |
| Rated current (DIN EN 61984) | |
| Rated voltage (DIN EN 61984) | |
| Rated impulse voltage (DIN EN 61984) | |
| Pollution severity | 3 |
| Rated voltage according to UL/CSA | |
| Insulation resistance | 10 ¹² Ω |
| Surge voltage category | |
| Limit temperature | -40 °C ... 125 °C |
| UL 94 flammability rating | V-0 |
| Plugging cycles | ≥ 500 |
| Material | Polycarbonate, glass fibre reinforced |
| Required plug-in slots | 0.5 |

Note



| Deployment | Type | Order No. |
|------------|---------|-------------------|
| | HDC MDU | 1429040000 |



Note

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Cat. 5e

Technical data

| | |
|-----------------------|---------------------|
| No. of poles | 4 |
| Transmission rate | 100 Mbit/s |
| Category | Cat. 5e |
| Coding | D |
| Rated current | 4 A |
| Rated voltage | 250 V |
| Pollution severity | 2 |
| Insulation resistance | ≥ 10 ⁹ Ω |
| Limit temperature | -30 °C ... 90 °C |
| Plugging cycles | ≥ 100 |
| Contact surface | Au (Gold) |

Note
Round plug-in connector in accordance with IEC 61076-2-101



| Module side version | Cable length | Opposite side version | Type | Order No. |
|---------------------|--------------|-----------------------|-------------------------|------------|
| Female | 1 m | open | HDC XX5E01 FOXXXXX-0100 | 2003920100 |
| Male | 1 m | open | HDC XX5E01 MOXXXXX-0100 | 2003890100 |
| Male | 0.5 m | Female, straight | HDC XX5E01 MFSXXX-0050 | 2453550050 |
| Male | 1 m | Female, straight | HDC XX5E01 MFSXXX-0100 | 2453550100 |
| Male | 1.5 m | Female, straight | HDC XX5E01 MFSXXX-0150 | 2453550150 |
| Male | 3 m | Female, straight | HDC XX5E01 MFSXXX-0300 | 2453550300 |
| Male | 5 m | Female, straight | HDC XX5E01 MFSXXX-0500 | 2453550500 |
| Female | 1 m | Male, straight, M12D | HDC XX5E01 FMSM12D-0100 | 2451120100 |
| Male | 1 m | Male, straight, M12D | HDC XX5E01 MMSM12D-0100 | 2451110100 |
| Male | 1 m | Male, straight, RJ45 | HDC XX5E01 MMSRJ45-0100 | 2450490100 |
| Female | 1 m | Male, straight, RJ45 | HDC XX5E01 FMSRJ45-0100 | 2451080100 |

Note Other versions and cable lengths on request

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

Cat. 6_A

Technical data

| | |
|-----------------------|---------------------|
| No. of poles | 8 |
| Transmission rate | 10 GBit/s |
| Category | Cat. 6A |
| Coding | X |
| Rated current | 0.5 A |
| Rated voltage | 50 V |
| Pollution severity | 2 |
| Insulation resistance | ≥ 10 ⁹ Ω |
| Limit temperature | -30 °C ... 90 °C |
| Plugging cycles | ≥ 100 |
| Contact surface | Au (Gold) |

Note

Round plug-in connector in accordance with IEC 61076-2-109



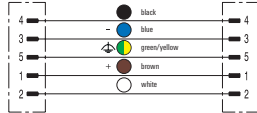
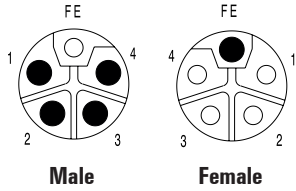
| Module side version | Cable length | Opposite side version | Type | Order No. |
|---------------------|--------------|-----------------------|-------------------------|------------|
| Female | 1 m | open | HDC XX6A01 FOXXXXX-0100 | 2003850100 |
| Male | 1 m | open | HDC XX6A01 MOXXXXX-0100 | 2003820100 |
| Male | 0.5 m | Female, straight | HDC XX6A01 MFSXXXX-0050 | 2453540050 |
| Male | 1 m | Female, straight | HDC XX6A01 MFSXXXX-0100 | 2453540100 |
| Male | 1.5 m | Female, straight | HDC XX6A01 MFSXXXX-0150 | 2453540150 |
| Male | 3 m | Female, straight | HDC XX6A01 MFSXXXX-0300 | 2453540300 |
| Male | 5 m | Female, straight | HDC XX6A01 MFSXXXX-0500 | 2453540500 |
| Male | 1 m | Male, straight, M12X | HDC XX6A01 MMSM12X-0100 | 2451130100 |
| Female | 1 m | Male, straight, M12X | HDC XX6A01 FMSM12X-0100 | 2451140100 |
| Male | 1 m | Male, straight, RJ45 | HDC XX6A01 MMSRJ45-0100 | 2451090100 |
| Female | 1 m | Male, straight, RJ45 | HDC XX6A01 FMSRJ45-0100 | 2451100100 |

Note

Other versions and cable lengths on request



Connecting cables
M12
L-coded



Ordering data

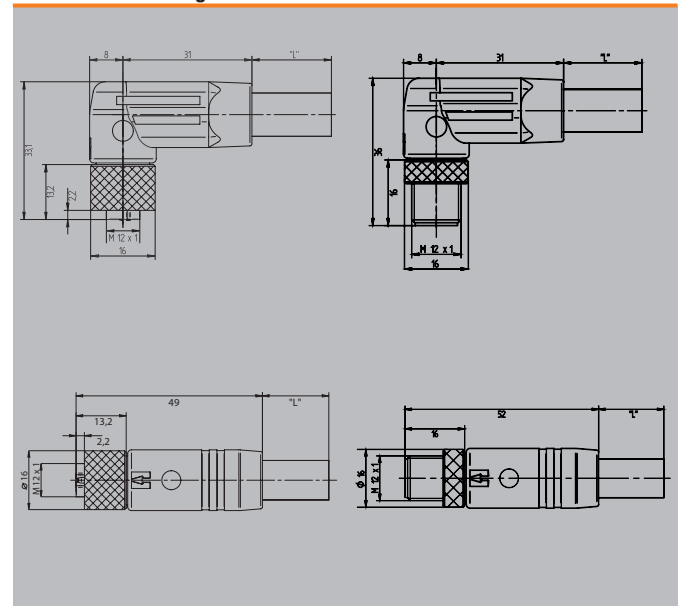
| Male, straight - Female, straight | |
|-----------------------------------|--------|
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, straight - Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled - Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled - female, straight | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Note | |

| | | | |
|----------------------|------------|--|--|
| SAIL-M12GM12G-L-1.5P | 2455260150 | | |
| SAIL-M12GM12G-L-3.0P | 2455260300 | | |
| SAIL-M12GM12G-L-5.0P | 2455260500 | | |
| SAIL-M12GM12G-L-10P | 2455261000 | | |
| SAIL-M12GM12W-L-1.5P | 2455280150 | | |
| SAIL-M12GM12W-L-3.0P | 2455280300 | | |
| SAIL-M12GM12W-L-5.0P | 2455280500 | | |
| SAIL-M12GM12W-L-10P | 2455281000 | | |
| SAIL-M12WM12W-L-1.5P | 2455300150 | | |
| SAIL-M12WM12W-L-3.0P | 2455300300 | | |
| SAIL-M12WM12W-L-5.0P | 2455300500 | | |
| SAIL-M12WM12W-L-10P | 2455301000 | | |
| SAIL-M12WM12G-L-1.5P | 2455320150 | | |
| SAIL-M12WM12G-L-3.0P | 2455320300 | | |
| SAIL-M12WM12G-L-5.0P | 2455320500 | | |
| SAIL-M12WM12G-L-10P | 2455321000 | | |

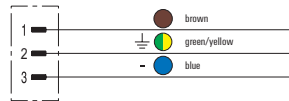
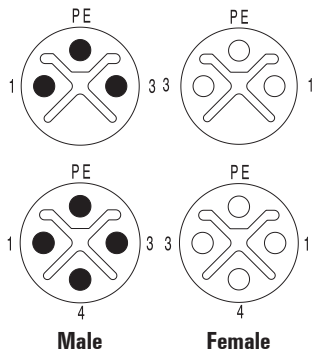
Technical data

| | |
|------------------------------|-----------------------------|
| Rated current | 16 A |
| Protection degree | IP65, IP67, when screwed in |
| Core cross-section | 1.5 mm ² |
| Contact surface | Gold-plated |
| Temperature range of housing | -30...+90 °C |
| Rated voltage | 50 V |
| Approvals | cULus |

Dimensioned drawing



One end without connector
M12
S-coded



Ordering data

| Male, straight | |
|------------------|--------|
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Female, straight | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Note | |

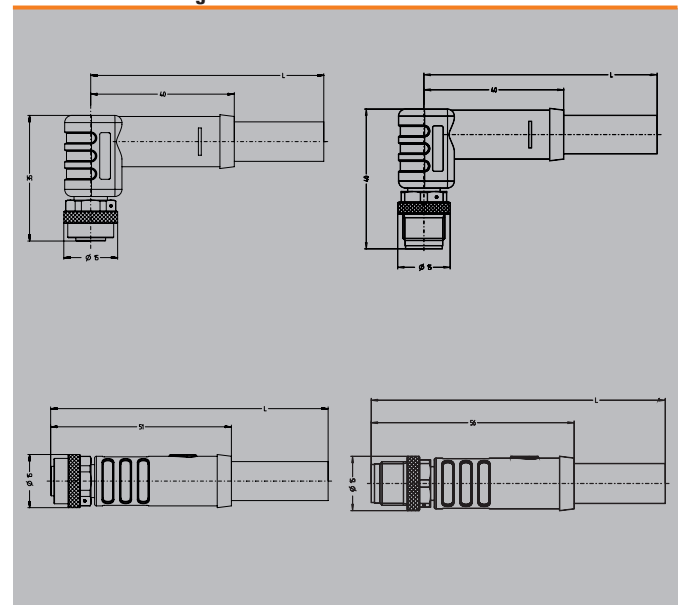
| 3-pole | |
|--------------------|------------|
| SAIL-M12G-S3-1.5P | 2050020150 |
| SAIL-M12G-S3-3.0P | 2050020300 |
| SAIL-M12G-S3-5.0P | 2050020500 |
| SAIL-M12G-S3-10P | 2050021000 |
| SAIL-M12W-S3-1.5P | 2050050150 |
| SAIL-M12W-S3-3.0P | 2050050300 |
| SAIL-M12W-S3-5.0P | 2050050500 |
| SAIL-M12W-S3-10P | 2050051000 |
| SAIL-M12BG-S3-1.5P | 2049950150 |
| SAIL-M12BG-S3-3.0P | 2049950300 |
| SAIL-M12BG-S3-5.0P | 2049950500 |
| SAIL-M12BG-S3-10P | 2049951000 |
| SAIL-M12BW-S3-1.5P | 2050010150 |
| SAIL-M12BW-S3-3.0P | 2050010300 |
| SAIL-M12BW-S3-5.0P | 2050010500 |
| SAIL-M12BW-S3-10P | 2050011000 |

| 4-pole | |
|-------------------|------------|
| SAIL-M12G-S-1.5P | 2050230150 |
| SAIL-M12G-S-3.0P | 2050230300 |
| SAIL-M12G-S-5.0P | 2050230500 |
| SAIL-M12G-S-10P | 2050231000 |
| SAIL-M12W-S-1.5P | 2050260150 |
| SAIL-M12W-S-3.0P | 2050260300 |
| SAIL-M12W-S-5.0P | 2050260500 |
| SAIL-M12W-S-10P | 2050261000 |
| SAIL-M12BG-S-1.5P | 2050160150 |
| SAIL-M12BG-S-3.0P | 2050160300 |
| SAIL-M12BG-S-5.0P | 2050160500 |
| SAIL-M12BG-S-10P | 2050161000 |
| SAIL-M12BW-S-1.5P | 2050210150 |
| SAIL-M12BW-S-3.0P | 2050210300 |
| SAIL-M12BW-S-5.0P | 2050210500 |
| SAIL-M12BW-S-10P | 2050211000 |

Technical data

| | |
|------------------------------|-----------------------|
| Rated current | 12 A |
| Protection degree | IP67, when screwed in |
| Core cross-section | 1.5 mm ² |
| Contact surface | Gold-plated |
| Temperature range of housing | -30...+90 °C |
| Rated voltage | 600 V |
| Approvals | |

Dimensioned drawing



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

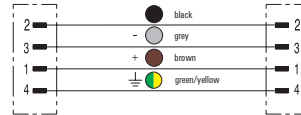
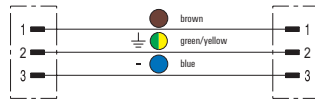
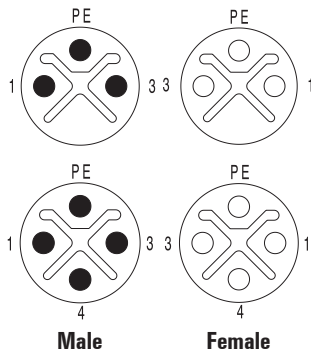
Infrastructure



Connecting cables

M12

S-coded



Ordering data

| Male, straight - Female, straight | |
|-----------------------------------|--------|
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, straight - Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled - Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled - female, straight | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Note | |

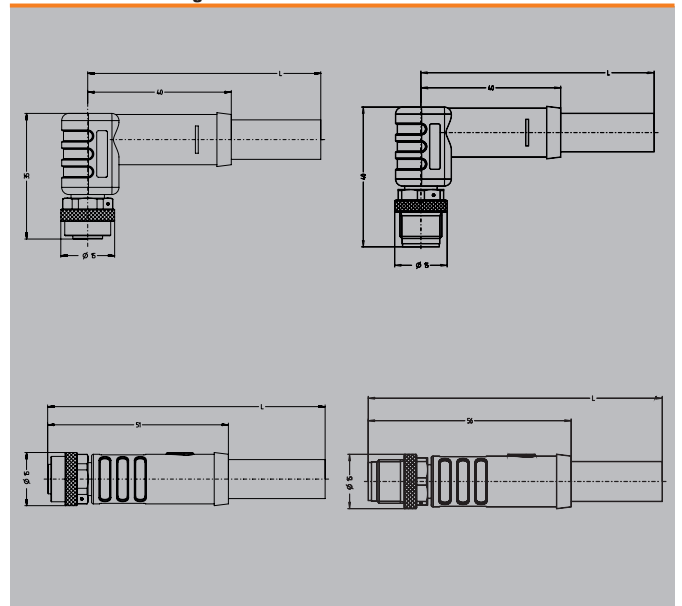
| 3-pole | |
|-----------------------|------------|
| SAIL-M12GM12G-S3-1.5P | 2050060150 |
| SAIL-M12GM12G-S3-3.0P | 2050060300 |
| SAIL-M12GM12G-S3-5.0P | 2050060500 |
| SAIL-M12GM12G-S3-10P | 2050061000 |
| 3-pole | |
| SAIL-M12GM12W-S3-1.5P | 2050100150 |
| SAIL-M12GM12W-S3-3.0P | 2050100300 |
| SAIL-M12GM12W-S3-5.0P | 2050100500 |
| SAIL-M12GM12W-S3-10P | 2050101000 |
| 3-pole | |
| SAIL-M12WM12W-S3-1.5P | 2050150150 |
| SAIL-M12WM12W-S3-3.0P | 2050150300 |
| SAIL-M12WM12W-S3-5.0P | 2050150500 |
| SAIL-M12WM12W-S3-10P | 2050151000 |
| 3-pole | |
| SAIL-M12WM12G-S3-1.5P | 2050080150 |
| SAIL-M12WM12G-S3-3.0P | 2050080300 |
| SAIL-M12WM12G-S3-5.0P | 2050080500 |
| SAIL-M12WM12G-S3-10P | 2050081000 |

| 4-pole | |
|----------------------|------------|
| SAIL-M12GM12G-S-1.5P | 2050270150 |
| SAIL-M12GM12G-S-3.0P | 2050270300 |
| SAIL-M12GM12G-S-5.0P | 2050270500 |
| SAIL-M12GM12G-S-10P | 2050271000 |
| 4-pole | |
| SAIL-M12GM12W-S-1.5P | 2050460150 |
| SAIL-M12GM12W-S-3.0P | 2050460300 |
| SAIL-M12GM12W-S-5.0P | 2050460500 |
| SAIL-M12GM12W-S-10P | 2050461000 |
| 4-pole | |
| SAIL-M12WM12W-S-1.5P | 2050470150 |
| SAIL-M12WM12W-S-3.0P | 2050470300 |
| SAIL-M12WM12W-S-5.0P | 2050470500 |
| SAIL-M12WM12W-S-10P | 2050471000 |
| 4-pole | |
| SAIL-M12WM12G-S-1.5P | 2050350150 |
| SAIL-M12WM12G-S-3.0P | 2050350300 |
| SAIL-M12WM12G-S-5.0P | 2050350500 |
| SAIL-M12WM12G-S-10P | 2050351000 |

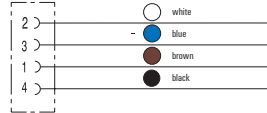
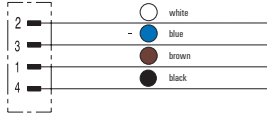
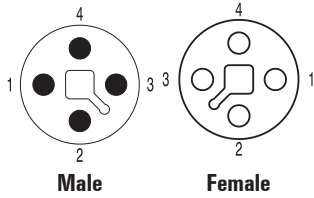
Technical data

| | |
|------------------------------|-----------------------|
| Rated current | 12 A |
| Protection degree | IP67, when screwed in |
| Core cross-section | 1.5 mm ² |
| Contact surface | Gold-plated |
| Temperature range of housing | -30...+90 °C |
| Rated voltage | 600 V |
| Approvals | |

Dimensioned drawing



One end without connector
M12
T-coded



Ordering data

| Male, straight | |
|------------------|--------|
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Female, straight | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Note | |

| 1.5 mm ² | |
|---------------------|------------|
| SAIL-M12G-T-1.5P | 2050640150 |
| SAIL-M12G-T-3.0P | 2050640300 |
| SAIL-M12G-T-5.0P | 2050640500 |
| SAIL-M12G-T-10P | 2050641000 |
| 1.5 mm ² | |
| SAIL-M12W-T-1.5P | 2050650150 |
| SAIL-M12W-T-3.0P | 2050650300 |
| SAIL-M12W-T-5.0P | 2050650500 |
| SAIL-M12W-T-10P | 2050651000 |
| 1.5 mm ² | |
| SAIL-M12BG-T-1.5P | 2050490150 |
| SAIL-M12BG-T-3.0P | 2050490300 |
| SAIL-M12BG-T-5.0P | 2050490500 |
| SAIL-M12BG-T-10P | 2050491000 |
| 1.5 mm ² | |
| SAIL-M12BW-T-1.5P | 2050560150 |
| SAIL-M12BW-T-3.0P | 2050560300 |
| SAIL-M12BW-T-5.0P | 2050560500 |
| SAIL-M12BW-T-10P | 2050561000 |

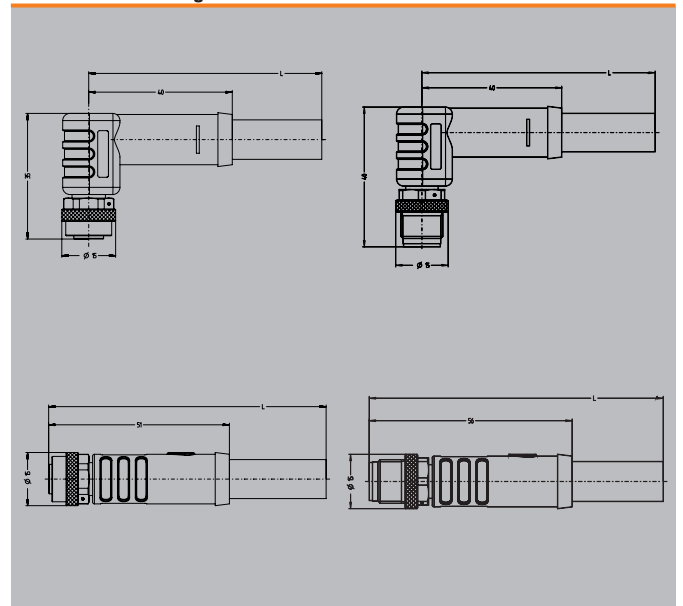
| 2.5 mm ² | |
|---------------------|------------|
| SAIL-M12G-T-1.5H | 2050700150 |
| SAIL-M12G-T-3.0H | 2050700300 |
| SAIL-M12G-T-5.0H | 2050700500 |
| SAIL-M12G-T-10H | 2050701000 |
| 2.5 mm ² | |
| SAIL-M12W-T-1.5H | 2050710150 |
| SAIL-M12W-T-3.0H | 2050710300 |
| SAIL-M12W-T-5.0H | 2050710500 |
| SAIL-M12W-T-10H | 2050711000 |
| 2.5 mm ² | |
| SAIL-M12BG-T-1.5H | 2050680150 |
| SAIL-M12BG-T-3.0H | 2050680300 |
| SAIL-M12BG-T-5.0H | 2050680500 |
| SAIL-M12BG-T-10H | 2050681000 |
| 2.5 mm ² | |
| SAIL-M12BW-T-1.5H | 2050690150 |
| SAIL-M12BW-T-3.0H | 2050690300 |
| SAIL-M12BW-T-5.0H | 2050690500 |
| SAIL-M12BW-T-10H | 2050691000 |

| 2.5 mm ² | |
|---------------------|------------|
| SAIL-M12G-T-1.5H | 2050700150 |
| SAIL-M12G-T-3.0H | 2050700300 |
| SAIL-M12G-T-5.0H | 2050700500 |
| SAIL-M12G-T-10H | 2050701000 |
| 2.5 mm ² | |
| SAIL-M12W-T-1.5H | 2050710150 |
| SAIL-M12W-T-3.0H | 2050710300 |
| SAIL-M12W-T-5.0H | 2050710500 |
| SAIL-M12W-T-10H | 2050711000 |
| 2.5 mm ² | |
| SAIL-M12BG-T-1.5H | 2050680150 |
| SAIL-M12BG-T-3.0H | 2050680300 |
| SAIL-M12BG-T-5.0H | 2050680500 |
| SAIL-M12BG-T-10H | 2050681000 |
| 2.5 mm ² | |
| SAIL-M12BW-T-1.5H | 2050690150 |
| SAIL-M12BW-T-3.0H | 2050690300 |
| SAIL-M12BW-T-5.0H | 2050690500 |
| SAIL-M12BW-T-10H | 2050691000 |

Technical data

| | |
|------------------------------|-----------------------|
| Rated current | 12 A |
| Protection degree | IP67, when screwed in |
| Core cross-section | 1.5 mm |
| Contact surface | Gold-plated |
| Temperature range of housing | -30...+90 °C |
| Rated voltage | 63 V |
| Approvals | |

Dimensioned drawing



Technical data

Machinery

Process

Energy

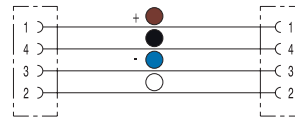
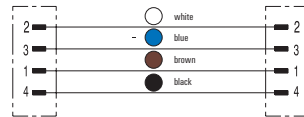
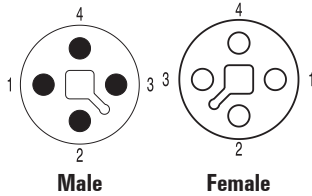
Transportation

Device
Manufacturers

Infrastructure



Connecting cables
M12
T-coded



Ordering data

| Male, straight - Female, straight | |
|-----------------------------------|--------|
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, straight - Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled - Female, angled | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Male, angled - female, straight | |
| PUR halogen-free | 1.5 m |
| PUR halogen-free | 3.0 m |
| PUR halogen-free | 5.0 m |
| PUR halogen-free | 10.0 m |
| Note | |

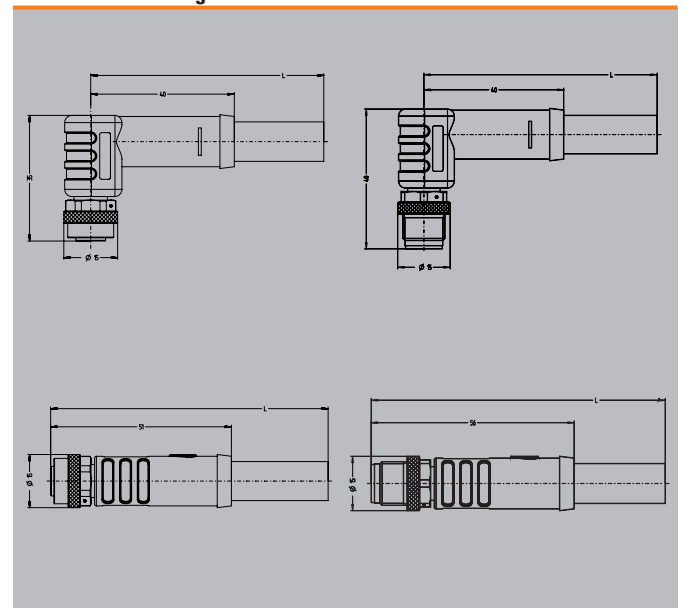
| 1.5 mm ² | |
|----------------------|------------|
| SAIL-M12GM12G-T-1.5P | 2050760150 |
| SAIL-M12GM12G-T-3.0P | 2050760300 |
| SAIL-M12GM12G-T-5.0P | 2050760500 |
| SAIL-M12GM12G-T-10P | 2050761000 |
| SAIL-M12GM12W-T-1.5P | 2050830150 |
| SAIL-M12GM12W-T-3.0P | 2050830300 |
| SAIL-M12GM12W-T-5.0P | 2050830500 |
| SAIL-M12GM12W-T-10P | 2050831000 |
| SAIL-M12WM12W-T-1.5P | 2050860150 |
| SAIL-M12WM12W-T-3.0P | 2050860300 |
| SAIL-M12WM12W-T-5.0P | 2050860500 |
| SAIL-M12WM12W-T-10P | 2050861000 |
| SAIL-M12WM12G-T-1.5P | 2050820150 |
| SAIL-M12WM12G-T-3.0P | 2050820300 |
| SAIL-M12WM12G-T-5.0P | 2050820500 |
| SAIL-M12WM12G-T-10P | 2050821000 |

| 2.5 mm ² | |
|----------------------|------------|
| SAIL-M12GM12G-T-1.5H | 2050870150 |
| SAIL-M12GM12G-T-3.0H | 2050870300 |
| SAIL-M12GM12G-T-5.0H | 2050870500 |
| SAIL-M12GM12G-T-10H | 2050871000 |
| SAIL-M12GM12W-T-1.5H | 2050910150 |
| SAIL-M12GM12W-T-3.0H | 2050910300 |
| SAIL-M12GM12W-T-5.0H | 2050910500 |
| SAIL-M12GM12W-T-10H | 2050911000 |
| SAIL-M12WM12W-T-1.5H | 2050920150 |
| SAIL-M12WM12W-T-3.0H | 2050920300 |
| SAIL-M12WM12W-T-5.0H | 2050920500 |
| SAIL-M12WM12W-T-10H | 2050921000 |
| SAIL-M12WM12G-T-1.5H | 2050890150 |
| SAIL-M12WM12G-T-3.0H | 2050890300 |
| SAIL-M12WM12G-T-5.0H | 2050890500 |
| SAIL-M12WM12G-T-10H | 2050891000 |

Technical data

| | |
|------------------------------|-----------------------|
| Rated current | 12 A |
| Protection degree | IP67, when screwed in |
| Core cross-section | 1.5 mm |
| Contact surface | Gold-plated |
| Temperature range of housing | -30...+90 °C |
| Rated voltage | 63 V |
| Approvals | |

Dimensioned drawing

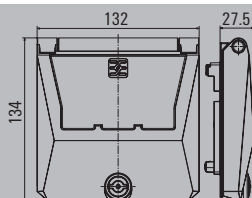


FrontCom® Vario

Double frame

- IP65
- One double insert plate or two single insert plates are mountable (additional partition necessary)

Metal cover



Technical data

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

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

Note

Ordering data

button operation
 Lockable with key
 Lockable with cabinet key
 Lockable with cabinet key (Daimler-Locking)

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

Note

Accessories

Spare key

| Type | Qty. | Order No. |
|-----------|------|------------|
| IE-FC-KEY | 1 | 1465930000 |

Markers

silver
 light grey
 white
 for touch-safe protection and insert plates

| | | |
|--------------------------|-----|------------|
| SM 27/18 K MC NE SI | 80 | 1713760000 |
| SM 27/18 K MC NE GR | 80 | 1073340000 |
| SM 27/18 K MC NE WS | 80 | 1707270000 |
| ESG 7/20 SIRIUS MC NE WS | 200 | 1736181044 |

Touch-safe protection

Touch-safe protection

| | | |
|------------|---|------------|
| IE-FC-PWPC | 1 | 1450820000 |
|------------|---|------------|

Bar (for mounting single insert plates)

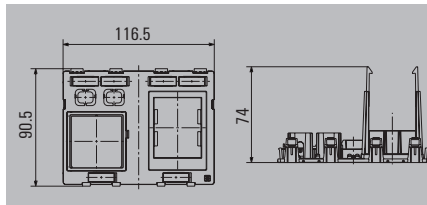
Partition

| | | |
|--------------|---|------------|
| IE-FC-DF-IPH | 1 | 2003340000 |
|--------------|---|------------|

Note

FrontCom® Vario**Insert plates for double frames**

- IP20

1 x power, 2 x data, 1 x LS switch**Technical data**

Material
Insert, data
Insert Power large
Preparation of LS switch (2 pitch)
Insert 2 x Power US + GFCI
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
2
1
1
-40 °C...70 °C

Ordering data

shielded
unshielded

Note

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

Accessories**Inserts, Power**

Socket AU 15 A
Socket AU 10 A
Socket CH
Socket CN
Socket GB
Socket DE
Socket DE orange
Socket FR
Socket FR orange
Socket IT/EU
Socket CZ
Socket IND
RCBO

| Type | Qty. | Order No. |
|-------------------|------|------------|
| IE-FCI-PWB-AU | 1 | 1450830000 |
| IE-FCI-PWB-AU-10A | 1 | 1546590000 |
| IE-FCI-PWB-CH | 1 | 1450780000 |
| IE-FCI-PWB-CN | 1 | 1450790000 |
| IE-FCI-PWB-GB | 1 | 1450770000 |
| IE-FCI-PWB-DE | 1 | 1450730000 |
| IE-FCI-PWB-DE-OR | 1 | 1554000000 |
| IE-FCI-PWB-FR | 1 | 1450750000 |
| IE-FCI-PWB-FR-OR | 1 | 2007230000 |
| IE-FCI-PWB-IT | 1 | 1450810000 |
| IE-FCI-PWB-CZ | 1 | 2426700000 |
| IE-FCI-PWB-IND | 1 | 2500710000 |
| IE-FCI-PWB-RCBO | 1 | 1534250000 |

Inserts, Data

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

| | | |
|-----------------|----|------------|
| IE-BI-RJ45-C | 10 | 1962840000 |
| IE-BI-RJ45-FJ-B | 10 | 1963840000 |
| IE-BI-RJ45-FJ-P | 10 | 1963830000 |
| IE-BI-RJ45-FJ-A | 10 | 1962850000 |
| IE-BI-USB-A | 10 | 1019570000 |
| IE-BI-USB-3.0-A | 10 | 1487920000 |
| IE-BI-USB-AB | 10 | 1131380000 |

Markers

for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

| | | |
|--------------------------|-----|------------|
| ESG 7/20 SIRIUS MC NE WS | 200 | 1736181044 |
| IE-FC-PWPC | 1 | 1450820000 |

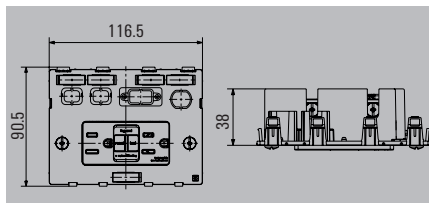
Note

FrontCom® Vario

Insert plates for double frames

- IP20

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



Technical data

| |
|-----------------------------------------|
| Material |
| Insert, data |
| Insert Power large |
| Insert fuse |
| Signal insert D-Sub 9-pole / VGA / HDMI |
| Preparation of LS switch (2 TE) |
| Insert 2 x Power US + GFCI |
| Ambient temperature (operational) |
| Approvals |

| |
|------------------|
| Polycarbonate PC |
| 2 |
| 1 |
| 1 |
| 1 |
| -35 °C...66 °C |

Technical data GFCI insert

| |
|-------------------------------------------|
| Operating voltage / Rated current |
| GFCI protected US outlet |
| Self-test |
| Status indication |
| Type of connection |
| Line connection cross-section |
| finely stranded with wire-end ferrule |
| finely stranded with wire-end ferrule |
| Conductor connection cross-section, solid |

| |
|-------------------------------|
| 125 V AC / 20 A |
| 2 pieces |
| automatically every 3 seconds |
| red LED |
| Screw connection |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 4 mm ² |

Note

| |
|--|
| |
|--|

Ordering data

| |
|------------|
| shielded |
| unshielded |

Note

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

incl. pre-mounted GFCI

Accessories

| |
|---------------------------------------------|
| Inserts, Signal |
| D-Sub, 9-pole, female/female |
| D-Sub, 9-pole, female / male |
| D-Sub, 9-pole, female / solder connection |
| Fuse inserts |
| 3 A |
| Inserts, Data |
| RJ45 coupling |
| RJ45 module EIA/TIA T568 A |
| RJ45 module EIA/TIA T568 B |
| RJ45 module PROFINET |
| USB 2.0 A / A |
| USB 3.0 A / A |
| USB 2.0 A / B |
| Markers |
| for touch-safe protection and insert plates |

| Type | Qty. | Order No. |
|-----------------|------|------------|
| IE-FCI-D9-FF | 1 | 1450840000 |
| IE-FCI-D9-FM | 1 | 1450850000 |
| IE-FCI-D9-FS | 1 | 1450870000 |
| IE-FCI-PWCB-3A | 1 | 1543690000 |
| IE-BI-RJ45-C | 10 | 1962840000 |
| IE-BI-RJ45-FJ-A | 10 | 1962850000 |
| IE-BI-RJ45-FJ-B | 10 | 1963840000 |
| IE-BI-RJ45-FJ-P | 10 | 1963830000 |
| IE-BI-USB-A | 10 | 1019570000 |
| IE-BI-USB-3.0-A | 10 | 1487920000 |
| IE-BI-USB-AB | 10 | 1131380000 |

| |
|--------------------------|
| ESG 7/20 SIRIUS MC NE WS |
| 200 |
| 1736181044 |

Note

| |
|--|
| |
|--|

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

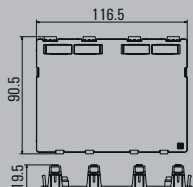
Infrastructure

FrontCom® Vario

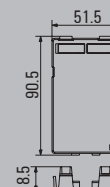
Insert plates

- IP20

blank double plate



blank single plate



Technical data

| | |
|-----------------------------------|--|
| Material | |
| Ambient temperature (operational) | |
| Approvals | |
| Note | |

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

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

Ordering data

| | |
|-------------|------------|
| | unshielded |
| Note | |

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

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

Accessories

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| | |
|-------------|--|
| Note | |
|-------------|--|

| | |
|-------------|--|
| Note | |
|-------------|--|

| | |
|-------------|--|
| Note | |
|-------------|--|

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

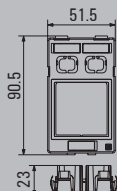
Infrastructure

FrontCom® Vario

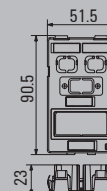
Insert plates

- IP20

1 x power, 2 x data



1x Power, 2x Data, 1x Signal



Technical data

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

| |
|------------------|
| Polycarbonate PC |
| 2 |
| 1 |
| 1 |
| -40 °C...70 °C |
| CURUS; GERMLLOYD |

| |
|------------------|
| Polycarbonate PC |
| 2 |
| 1 |
| 1 |
| -40 °C...70 °C |
| CURUS; GERMLLOYD |

Ordering data

| |
|-------------|
| shielded |
| unshielded |
| Note |

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

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

Accessories

| Inserts, Power | |
|---------------------------------------------|--|
| Socket AU 15 A | |
| Socket AU 10 A | |
| Socket CH | |
| Socket CN | |
| Socket GB | |
| Socket DE | |
| Socket DE orange | |
| Socket FR | |
| Socket FR orange | |
| Socket IT/EU | |
| Socket CZ | |
| Socket IND | |
| RCBO | |
| Inserts, Data | |
| RJ45 coupling | |
| RJ45 module EIA/TIA T568 B | |
| RJ45 module PROFINET | |
| RJ45 module EIA/TIA T568 A | |
| USB 2.0 A / A | |
| USB 3.0 A / A | |
| USB 2.0 A / B | |
| Markers | |
| for touch-safe protection and insert plates | |
| Touch-safe protection | |
| Touch-safe protection | |
| Inserts, Signal | |
| D-Sub, 9-pole, female/female | |
| D-Sub, 9-pole, female / male | |
| D-Sub, 9-pole, female / solder connection | |
| Note | |

| Type | Qty. | Order No. |
|--------------------------|------|------------|
| IE-FCI-PWB-AU | 1 | 1450830000 |
| IE-FCI-PWB-AU-10A | 1 | 1546590000 |
| IE-FCI-PWB-CH | 1 | 1450780000 |
| IE-FCI-PWB-CN | 1 | 1450790000 |
| IE-FCI-PWB-GB | 1 | 1450770000 |
| IE-FCI-PWB-DE | 1 | 1450730000 |
| IE-FCI-PWB-DE-OR | 1 | 1554000000 |
| IE-FCI-PWB-FR | 1 | 1450750000 |
| IE-FCI-PWB-FR-OR | 1 | 2007230000 |
| IE-FCI-PWS-IT | 1 | 1450810000 |
| IE-FCI-PWB-CZ | 1 | 2426700000 |
| IE-FCI-PWB-IND | 1 | 2500710000 |
| IE-FCI-PWB-RCBO | 1 | 1534250000 |
| IE-BI-RJ45-C | 10 | 1962840000 |
| IE-BI-RJ45-FJ-B | 10 | 1963840000 |
| IE-BI-RJ45-FJ-P | 10 | 1963830000 |
| IE-BI-RJ45-FJ-A | 10 | 1962850000 |
| IE-BI-USB-A | 10 | 1019570000 |
| IE-BI-USB-3.0-A | 10 | 1487920000 |
| IE-BI-USB-AB | 10 | 1131380000 |
| ESG 7/20 SIRIUS MC NE WS | 200 | 1736181044 |
| IE-FC-PWPC | 1 | 1450820000 |
| IE-FCI-D9-FF | 1 | 1450840000 |
| IE-FCI-D9-FM | 1 | 1450850000 |
| IE-FCI-D9-FS | 1 | 1450870000 |

| Type | Qty. | Order No. |
|--------------------------|------|------------|
| IE-FCI-PWS-IT | 1 | 1450810000 |
| IE-BI-RJ45-C | 10 | 1962840000 |
| IE-BI-RJ45-FJ-B | 10 | 1963840000 |
| IE-BI-RJ45-FJ-P | 10 | 1963830000 |
| IE-BI-RJ45-FJ-A | 10 | 1962850000 |
| IE-BI-USB-A | 10 | 1019570000 |
| IE-BI-USB-3.0-A | 10 | 1487920000 |
| IE-BI-USB-AB | 10 | 1131380000 |
| ESG 7/20 SIRIUS MC NE WS | 200 | 1736181044 |
| IE-FC-PWPC | 1 | 1450820000 |
| IE-FCI-D9-FF | 1 | 1450840000 |
| IE-FCI-D9-FM | 1 | 1450850000 |
| IE-FCI-D9-FS | 1 | 1450870000 |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

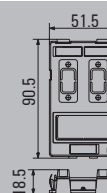
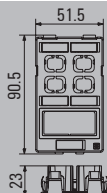
FrontCom® Vario

Insert plates

- IP20

1 x power, 4 x data

1 x power, 2 x signal



Technical data

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

| |
|------------------|
| Polycarbonate PC |
| 4 |
| 2 |
| 1 |
| -40 °C...70 °C |
| CURUS; GERMLLOYD |
| Note |

| |
|------------------|
| Polycarbonate PC |
| 2 |
| 1 |
| -40 °C...70 °C |
| CURUS; GERMLLOYD |
| Note |

Ordering data

| |
|-------------|
| shielded |
| unshielded |
| Note |

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

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

Accessories

| | |
|------------------------------|---------------------------------------------|
| Inserts, Power | Socket IT/EU |
| Inserts, Data | RJ45 coupling |
| | RJ45 module EIA/TIA T568 A |
| | RJ45 module EIA/TIA T568 B |
| | RJ45 module PROFINET |
| | USB 2.0 A / A |
| | USB 3.0 A / A |
| | USB 2.0 A / B |
| Markers | for touch-safe protection and insert plates |
| Touch-safe protection | Touch-safe protection |
| Inserts, Signal | D-Sub, 9-pole, female/female |
| | D-Sub, 9-pole, female / male |
| | D-Sub, 9-pole, female / solder connection |
| Note | |

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

| Type | Qty. | Order No. |
|--------------------------|------|------------|
| IE-FCI-PWS-IT | 1 | 1450810000 |
| ESG 7/20 SIRIUS MC NE WS | 200 | 1736181044 |
| IE-FC-PWPC | 1 | 1450820000 |
| IE-FCI-D9-FF | 1 | 1450840000 |
| IE-FCI-D9-FM | 1 | 1450850000 |
| IE-FCI-D9-FS | 1 | 1450870000 |
| Note | | |

Note

Note

Note



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

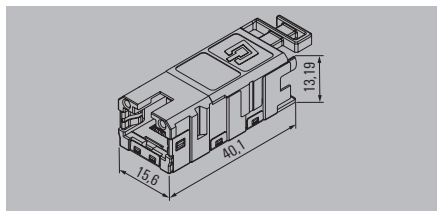
Infrastructure

Data inserts

RJ45

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

Module



Technical data

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

| |
|-------------------------------|
| IP67 with housing |
| 750 |
| 360° all-round enclosure |
| Zinc diecast |
| Gold over nickel, Au ≥ 0.8 µm |
| AWG 26 / AWG 22 |
| AWG 24 / AWG 22 |
| 0.85 mm...1.6 mm |
| IEC 60603-7-51 |
| -40 °C...70 °C |
| conforming to IEEE 802.3af |
| CULUS |
| Note |

Ordering data

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

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

Accessories

| Tools |
|------------------------|
| Optional pressing tool |
| Note |

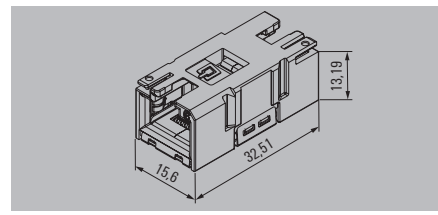
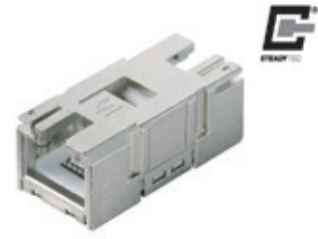
| Type | Qty. | Order No. |
|-------------|------|------------|
| PWZ RJ45 | 1 | 1118040000 |
| Note | | |

| |
|-------------|
| Note |
|-------------|

| |
|-------------|
| Note |
|-------------|

| |
|-------------|
| Note |
|-------------|

Coupling



| |
|-------------------------------|
| IP67 with housing |
| 750 |
| 360° all-round enclosure |
| Zinc diecast |
| Gold over nickel, Au ≥ 0.8 µm |
| IEC 60603-7-51 |
| -40 °C...70 °C |
| conforming to IEEE 802.3af |
| CULUS; GERMLLOYD |
| Note |

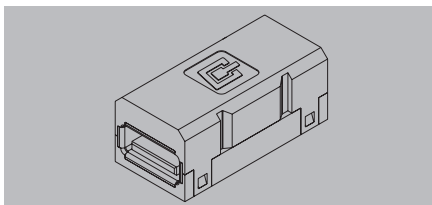
| Type | Qty. | Order No. |
|--------------|------|------------|
| IE-BI-RJ45-C | 10 | 1962840000 |
| Note | | |

| Type | Qty. | Order No. |
|-------------|------|-----------|
| Note | | |

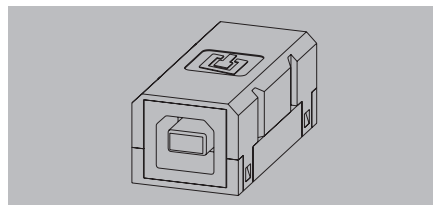
Data inserts
USB

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

Coupling USB A/A



Coupling USB A/B



Technical data

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

Note

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

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

Ordering data

| | |
|--|---------|
| | USB 2.0 |
| | USB 3.0 |

Note

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

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

Accessories

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

Note

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



Infrastructure



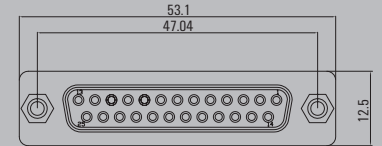
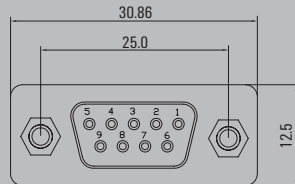
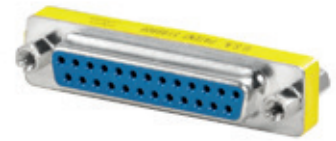
Signal inserts

D-sub

- IP20

9-pole

25-pole



Technical data

| | |
|----------------------------------------|--------------------------------------|
| Protection degree | IP20 |
| Housing main material | SPCC |
| No. of poles | 9 |
| Housing surface | tin-plated |
| Material insulator | PBT glass fibre reinforced UL 94 V-0 |
| Contact surface | Gold-plated |
| Contact resistance | ≤ 20 mΩ |
| Insulation resistance | 1000 MΩ at 500 V DC |
| Dielectric strength, contact / contact | 1 kV _{eff} / 1 min. |
| Ambient temperature (operational) | -55 °C...105 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|----------------------------------------|--------------------------------------|
| Protection degree | IP20 |
| Housing main material | SPCC |
| No. of poles | 25 |
| Housing surface | tin-plated |
| Material insulator | PBT glass fibre reinforced UL 94 V-0 |
| Contact surface | Gold-plated |
| Contact resistance | ≤ 20 mΩ |
| Insulation resistance | 1000 MΩ at 500 V DC |
| Dielectric strength, contact / contact | 1 kV _{eff} / 1 min. |
| Ambient temperature (operational) | -55 °C...105 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|----------------------------------------|--------------------------------------|
| Protection degree | IP20 |
| Housing main material | SPCC |
| No. of poles | 25 |
| Housing surface | tin-plated |
| Material insulator | PBT glass fibre reinforced UL 94 V-0 |
| Contact surface | Gold-plated |
| Contact resistance | ≤ 20 mΩ |
| Insulation resistance | 1000 MΩ at 500 V DC |
| Dielectric strength, contact / contact | 1 kV _{eff} / 1 min. |
| Ambient temperature (operational) | -55 °C...105 °C |
| Approvals | GERMLLOYD |
| Note | |

Ordering data

| |
|----------------------------|
| Socket / socket |
| Socket / plug |
| Socket / solder connection |
| Note |

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

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

Accessories

| | | |
|------|------|-----------|
| Type | Qty. | Order No. |
|------|------|-----------|

| | | |
|------|------|-----------|
| Type | Qty. | Order No. |
|------|------|-----------|

| | | |
|------|------|-----------|
| Type | Qty. | Order No. |
|------|------|-----------|

| |
|------|
| Note |
|------|

| |
|------|
| Note |
|------|

| |
|------|
| Note |
|------|

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

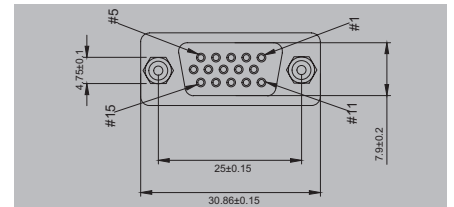
Signal inserts

- IP20

HDMI



HD15 / VGA



Technical data

| | |
|----------------------------------------|----------------|
| Protection degree | IP20 |
| Housing main material | PVC casting |
| No. of poles | 9 |
| Housing surface | |
| Contact surface | Gold-plated |
| Contact resistance | |
| Insulation resistance | |
| Dielectric strength, contact / contact | |
| Ambient temperature (operational) | -15 °C...50 °C |
| Approvals | |
| Note | |

| | |
|----------------------------------------|----------------|
| Protection degree | IP20 |
| Housing main material | PVC casting |
| No. of poles | 9 |
| Housing surface | |
| Contact surface | Gold-plated |
| Contact resistance | |
| Insulation resistance | |
| Dielectric strength, contact / contact | |
| Ambient temperature (operational) | -15 °C...50 °C |
| Approvals | |
| Note | |

| | |
|----------------------------------------|-------------------------------|
| Protection degree | IP20 |
| Housing main material | |
| No. of poles | 25 |
| Housing surface | |
| Contact surface | Gold over nickel |
| Contact resistance | |
| Insulation resistance | |
| Dielectric strength, contact / contact | 1000 MΩ at 500 V DC |
| Ambient temperature (operational) | 1000 V _{eff} / 1 min |
| Approvals | -55 °C...105 °C |
| Note | GERMLLOYD |

Ordering data

| | |
|------|--|
| Note | |
|------|--|

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

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

Accessories

| | | |
|--|--|--|
| | | |
|--|--|--|

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| | |
|------|--|
| Note | |
|------|--|

| | | |
|--|--|--|
| | | |
|--|--|--|

| | | |
|--|--|--|
| | | |
|--|--|--|

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure



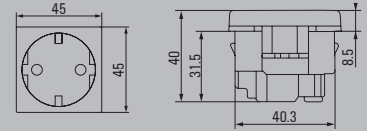
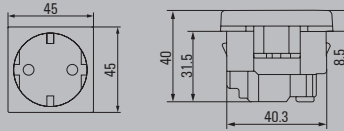
Power inserts
Power sockets

- IP20

Germany, white



Germany, orange



Technical data

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | PUSH IN |
| Line connection cross-section | |
| finely stranded with wire-end ferrule | 1.5 ... 1.5 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 1.5 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 2.5 mm ² |
| Stripping length | 10 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 16 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | PUSH IN |
| Line connection cross-section | |
| finely stranded with wire-end ferrule | 1.5 ... 1.5 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 1.5 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 2.5 mm ² |
| Stripping length | 10 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 16 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | PUSH IN |
| Line connection cross-section | |
| finely stranded with wire-end ferrule | 1.5 ... 1.5 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 1.5 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 2.5 mm ² |
| Stripping length | 10 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 16 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

Ordering data

| | | |
|---------------|-------------|------------------|
| Type | Qty. | Order No. |
| IE-FCI-PWB-DE | 1 | 1450730000 |
| Note | | |

| | | |
|---------------|-------------|------------------|
| Type | Qty. | Order No. |
| IE-FCI-PWB-DE | 1 | 1450730000 |
| Note | | |

| | | |
|------------------|-------------|------------------|
| Type | Qty. | Order No. |
| IE-FCI-PWB-DE-OR | 1 | 1554000000 |
| Note | | |

Accessories

| | | |
|-------------|-------------|------------------|
| Type | Qty. | Order No. |
| | | |

| | | |
|-------------|-------------|------------------|
| Type | Qty. | Order No. |
| | | |

| | | |
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| Type | Qty. | Order No. |
| | | |

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| Note | | |
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| Note | | |
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| Note | | |
|-------------|--|--|

Technical data

Machinery

Process

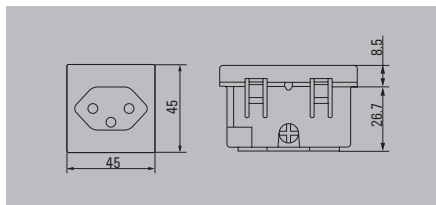
Energy

Transportation

Device Manufacturers

Infrastructure

Switzerland

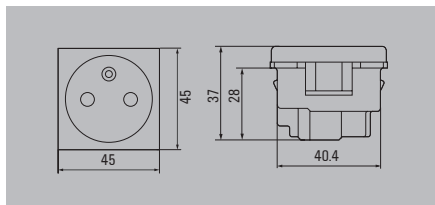


| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| PUSH IN |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 10 mm |
| 250 V |
| 10 A |
| -5 °C...50 °C |
| GERMLLOYD |

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

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

France, white

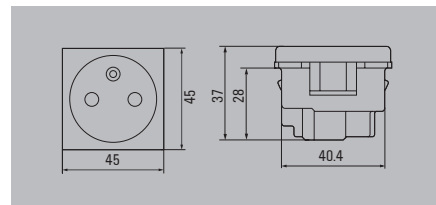


| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| PUSH IN |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 10 mm |
| 250 V |
| 16 A |
| -5 °C...50 °C |
| GERMLLOYD |

| Type | Qty. | Order No. |
|---------------|------|------------|
| IE-FCI-PWB-FR | 1 | 1450750000 |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

France, orange



| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| PUSH IN |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 10 mm |
| 250 V |
| 16 A |
| -5 °C...50 °C |

| Type | Qty. | Order No. |
|------------------|------|------------|
| IE-FCI-PWB-FR-OR | 1 | 2007230000 |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

Technical data

Machinery

Process

Energy

Transportation

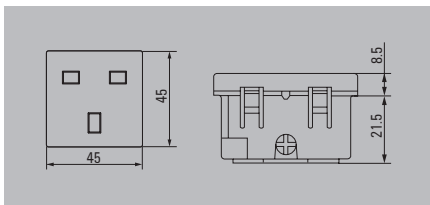
Device Manufacturers

Infrastructure

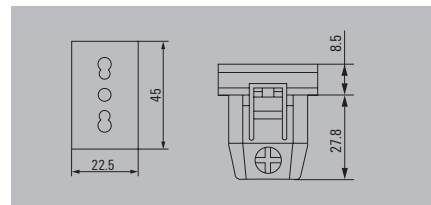
Power inserts
Power sockets

- IP20

UK



Italy / Europe



Technical data

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | Screw connection |
| Line connection cross-section | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 4 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 4 mm ² |
| Stripping length | 9 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 13 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | Screw connection |
| Line connection cross-section | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 4 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 4 mm ² |
| Stripping length | 9 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 16 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | Screw connection |
| Line connection cross-section | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 4 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 4 mm ² |
| Stripping length | 9 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 16 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

Ordering data

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

| Type | Qty. | Order No. |
|---------------|------|------------|
| IE-FCI-PWS-IT | 1 | 1450810000 |
| Note | | |

| Type | Qty. | Order No. |
|---------------|------|------------|
| IE-FCI-PWS-IT | 1 | 1450810000 |
| Note | | |

Accessories

| Type | Qty. | Order No. |
|-------------|------|-----------|
| Note | | |

| Type | Qty. | Order No. |
|-------------|------|-----------|
| Note | | |

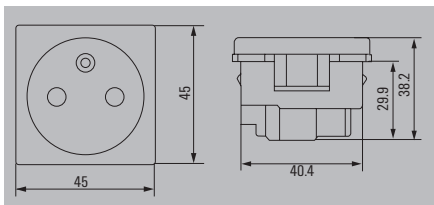
| Type | Qty. | Order No. |
|-------------|------|-----------|
| Note | | |

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| Note |
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| Note |
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| Note |
|-------------|

Czech Republic

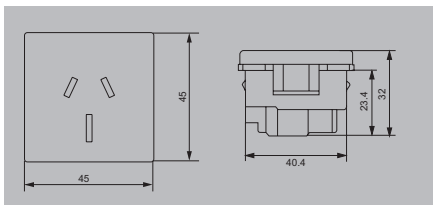


| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| PUSH IN |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 1.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 12 mm |
| 250 V |
| 16 A |
| -5 °C...50 °C |

| Type | Qty. | Order No. |
|---------------|------|------------|
| IE-FCI-PWB-CZ | 1 | 2426700000 |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

Australia, 15 A

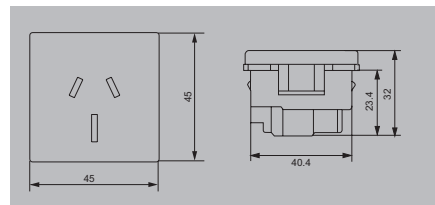


| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| Screw connection |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 4 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 4 mm ² |
| 1.5 ... 4 mm ² |
| 9 mm |
| 240 V |
| 15 A |
| -5 °C...50 °C |
| GERMLLOYD |

| Type | Qty. | Order No. |
|---------------|------|------------|
| IE-FCI-PWB-AU | 1 | 1450830000 |

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

Australia, 10 A



| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| Screw connection |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 4 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 4 mm ² |
| 1.5 ... 4 mm ² |
| 9 mm |
| 240 V |
| 10 A |
| -5 °C...50 °C |
| GERMLLOYD |

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

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

Technical data

Machinery

Process

Energy

Transportation

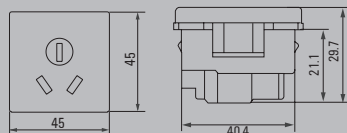
Device Manufacturers

Infrastructure

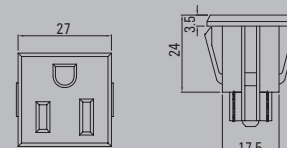
Power inserts
Power sockets

- IP20

China



USA



Technical data

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | Screw connection |
| Line connection cross-section | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 4 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 4 mm ² |
| Stripping length | 9 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 10 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|-------------------------------------------|-----------------------------|
| Protection degree | IP20 |
| Housing main material | Polycarbonate PC |
| Type of connection | Screw connection |
| Line connection cross-section | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 2.5 mm ² |
| finely stranded with wire-end ferrule | 1.5 ... 4 mm ² |
| finely stranded without wire-end ferrule | 1.5 ... 4 mm ² |
| Conductor connection cross-section, solid | 1.5 ... 4 mm ² |
| Stripping length | 9 mm |
| Rated voltage (AC) | 250 V |
| Rated current | 10 A |
| Ambient temperature (operational) | -5 °C...50 °C |
| Approvals | GERMLLOYD |
| Note | |

| | |
|-------------------------------------------|---------------------------------|
| Protection degree | IP20 |
| Housing main material | PA 66 |
| Type of connection | Solder connection, FS 4.8 x 0.8 |
| Line connection cross-section | |
| finely stranded with wire-end ferrule | |
| finely stranded without wire-end ferrule | |
| finely stranded with wire-end ferrule | |
| finely stranded without wire-end ferrule | |
| Conductor connection cross-section, solid | |
| Stripping length | |
| Rated voltage (AC) | 125 V |
| Rated current | 15 A |
| Ambient temperature (operational) | -20 °C...85 °C |
| Approvals | GERMLLOYD; UR |
| Note | |

Ordering data

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

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

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

Accessories

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

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

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

Technical data

Machinery

Process

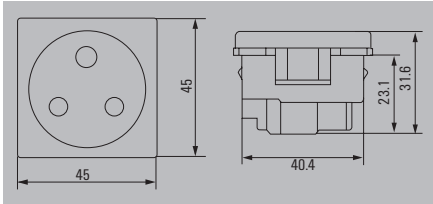
Energy

Transportation

Device
Manufacturers

Infrastructure

India



| |
|-----------------------------|
| IP20 |
| Polycarbonate PC |
| Screw connection |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 4 mm ² |
| 9 mm |
| 250 V |
| 13 A |
| -5 °C...50 °C |

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

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

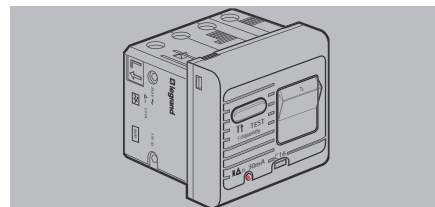
Infrastructure

Power inserts

RCBO

- IP20

RCBO



Technical data

| |
|-------------------------------------------|
| Ambient temperature (operational) |
| Operating voltage |
| Rated current |
| I Δ m |
| I Δ n |
| Triggering characteristic |
| Type of connection |
| Line connection cross-section |
| finely stranded with wire-end ferrule |
| finely stranded with wire-end ferrule |
| Conductor connection cross-section, solid |
| Note |

| |
|-----------------------------|
| -5 °C...40 °C |
| 230 V AC |
| 16 A |
| 500 A |
| 30 mA |
| Typ C |
| Screw connection |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |

Ordering data

| |
|-------------|
| Note |
|-------------|

| Type | Qty. | Order No. |
|-----------------|------|------------|
| IE-FCI-PWB-RCBO | 1 | 1534250000 |

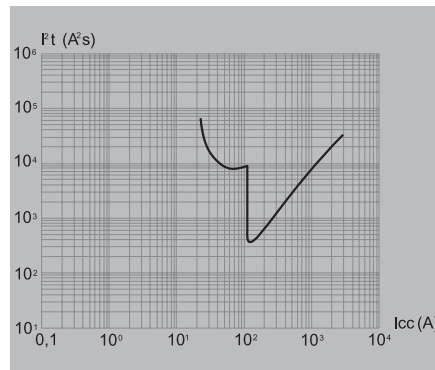
Accessories

| |
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| |
|--|

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

| |
|-------------|
| Note |
|-------------|

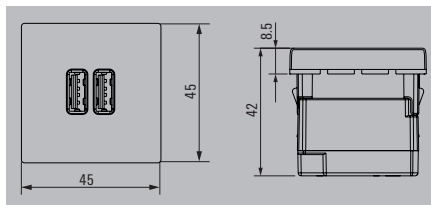
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Power inserts
USB charge insert

- IP20

USB-Charger 5 V / 2.4 A



Technical data

Ambient temperature (operational)
Input voltage
Frequency range
Input current
Output voltage
Output current
Degree of efficiency
Power consumption in standby mode
Standards
Class of protection
Housing main material
Type of connection
Line connection cross-section
 finely stranded with wire-end ferrule
 finely stranded with wire-end ferrule
Conductor connection cross-section, solid
Stripping length

| |
|--------------------------------|
| 0 °C...45 °C |
| 220...240 V AC |
| 50...60 Hz |
| ≤ 300 mA |
| 5 V DC |
| 2.4 A |
| 81 % |
| max. 0.1 W |
| EN 60950-1, EN 62684, EN 50558 |
| II |
| Polycarbonate PC |
| Screw connection |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 1.5 ... 2.5 mm ² |
| 6 mm |

Note

Ordering data

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

Note

Accessories

| Type | Qty. | Order No. |
|------|------|-----------|
|------|------|-----------|

Note

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



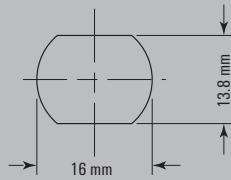
Infrastructure



3A fuse

- IP20

3A fuse



Technical data

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

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

Ordering data

| | |
|-------------|--|
| Note | |
|-------------|--|

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

Accessories

| | |
|------------------------------|----------|
| Flat blade connector, 6.5 mm | angled |
| | straight |

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

| | |
|-------------|--|
| Note | |
|-------------|--|

| | |
|-------------|--|
| Note | |
|-------------|--|

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process

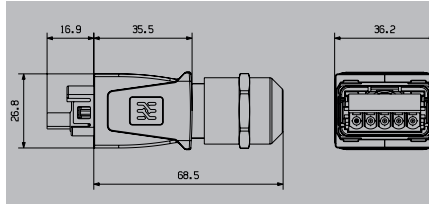


Machinery

Technical data

Plug PushPull Power

Plug Power 24 V



Technical data

General data

Protection degree
 Connector standard
 Ambient temperature (operational)
 No. of poles
 Wire connection cross-section, flexible, min./max.
 Sheath diameter, min. / max.
 Connection
 Approvals

IP65, IP67
 in accordance with PROFINET specification
 -40 °C...70 °C
 5
 0.75 mm² / 2.5 mm²
 6 mm / 13 mm
 Tension clamp

Material properties

Housing base material
 Sealing material
 Cable sealing material
 Contact material / Contact surface
 UL 94 flammability rating
 Pollution severity level
 Plugging cycles

Zinc diecast, nickel-plated
 NBR
 EPDM
 Copper alloy / Gold over nickel
 V-2
 2
 ≥ 100

Electrical properties*

Current-carrying capacity at 50 °C
 Rated voltage

16 A
 24 V

Note

Ordering data - Sets

Note

| Type | Qty. | Order No. |
|-------------------|------|------------|
| IE-PS-VAPM-5P-2.5 | 1 | 2465440000 |

Ordering data - Empty housings

Note

| Type | Qty. | Order No. |
|------|------|-----------|
| | | |

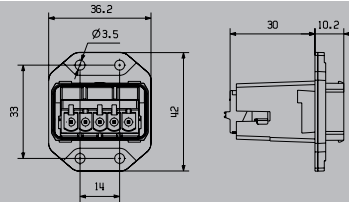
Note

Flanges PushPull Power

Flange Power 24 V



PROFI
NET



Technical data

General data

Protection degree
Connector standard
Ambient temperature (operational)
No. of poles
Connection diameter, flexible, min. / max.
Connection 1
Approvals
Installation

IP67
in accordance with PROFINET specification
-40 °C...70 °C
5
0.75 mm² / 2.5 mm²
Tension clamp
4 screws

Material properties

Housing base material
Sealing material
Cable sealing material
Contact carrier material
Contact material / Contact surface
UL 94 flammability rating
Pollution severity level
Plugging cycles

Zinc diecast, nickel-plated
NBR
EPDM
PA
Copper alloy / Gold over nickel
V-2
2
≥ 100

Electrical properties*

Current-carrying capacity at 50 °C
Rated voltage

16 A
24 V

Note

Ordering data - Sets

Note

| Type | Qty. | Order No. |
|-----------------|------|------------|
| IE-BSS-VAPM-24V | 1 | 2493480000 |

Ordering data - Empty housings

Device flange

Note

| Type | Qty. | Order No. |
|-------------|------|------------|
| IE-BHD-VAPM | 1 | 2493490000 |

Accessories

Dust protection cap

IP54 protective cap
Dust cap

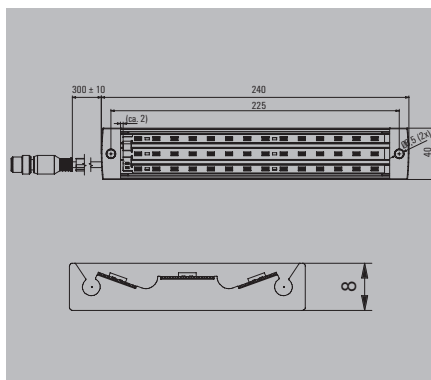
| Type | Qty. | Order No. |
|---------------|------|------------|
| IE-BP-VAPP | 10 | 1068930000 |
| IE-BP-VAPP-DC | 10 | 2494060000 |

Note



Weidmüller Industry Light

WIL Standard



Ordering data

| | |
|-------------|--------------------|
| | 0.3 m cable length |
| Note | |

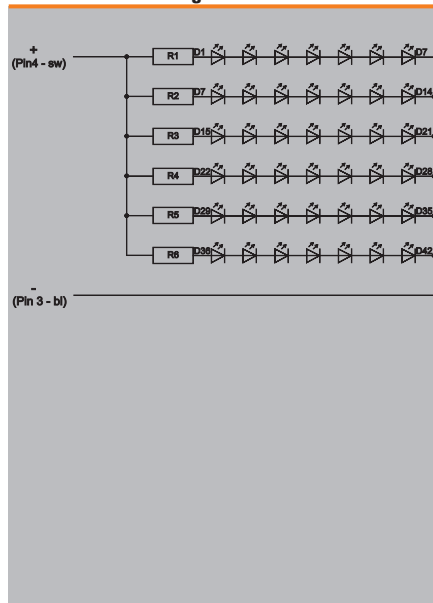
WIL Standard

| Type | QTY | Order No. |
|--------------|-----|------------|
| WIL-STANDARD | 1 | 2436210000 |

Technical data

| | |
|-------------------------------------------------------|------------------------------------------------|
| Light colour (CCT) | 6500K |
| Rated voltage (acc. to VDE standard 0110 ISO Group C) | 24 V DC ± 10% |
| Rated current | 420 mA |
| Illumination level | 140 lux ± 10 lux at 1 m and 24 V |
| Operating life | 10.000 h |
| L x W x H | 225 / 40 / 8 mm |
| Housing main material | hard anodised aluminium |
| Material of end caps | Nickel-plated CuZn |
| Number of LEDs | 52 |
| Cable length | 0.3 m |
| Wiring | M12: Pin 4 = connecting wire, Pin 3 = earth |
| Cable Material | TPE |
| Threaded ring material | PA |
| Protection degree | IP67 |

Dimensioned drawing





Infrastructure



Device
Manufacturers



Transportation



Energy



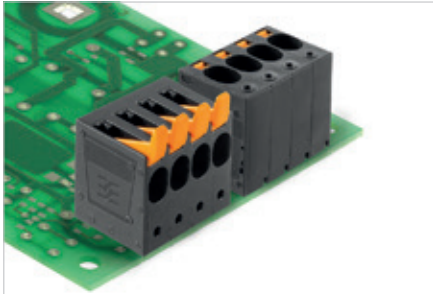
Process



Machinery

Technical data

LUF 10.00/./90V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm².

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction of 90°

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 58 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

Technical data

| In compliance with IEC 60664-1 / IEC 61984 | | | |
|--------------------------------------------|-----------------------|-----------------|------------------|
| Clamping range, max. | mm ² | 0.5...16 | |
| Solid core H05(07) V-U | mm² | 0.5...16 | |
| Stranded H07 V-R | mm ² | 6...16 | |
| Flexible H05(07) V-K | mm ² | 0.5...16 | |
| Flexible with ferrule | mm ² | 0.5...16 | |
| Ferrule with plastic collar | mm ² | 0.5...16 | |
| Stripping length | mm | 18 | |
| Screwdriver blade | mm | 0.8 x 4.0 | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | 76 | 76 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 1000 | 1000 1000 |
| Rated impulse voltage | kV | 8 | 8 8 |
| UL / CUL (Use Group) | B C D | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 58 | 58 5 |
| AWG conductor | AWG | 20-4 | |
| CSA (Use Group) | B C D | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 58 | 58 5 |
| AWG conductor | AWG | 20-4 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2, Octagonal | |
| Solder eyelet Ø = D | mm | 1.6 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Accessories

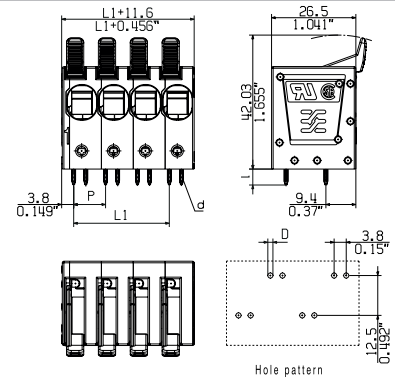
Note: Refer to the Accessories chapter for additional accessories.

| Screwdriver | | Order No. |
|-------------|------------------|------------|
| | SDIS 0.8X4.0X100 | 9008400000 |
| | SDS 0.8X4.0X100 | 9008340000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

LUF 10.00/./90V



Dimensioned drawing



Ordering data

| Solder pin length | | 5 mm | | |
|-------------------|--------|----------|------|------------|
| Colour | | Black | | |
| Pitch | | 10.00 mm | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 2 | 10.00 | 0.394 | 40 | 2453690000 |
| 3 | 20.00 | 0.787 | 40 | 2453700000 |
| 4 | 30.00 | 1.181 | 30 | 2453710000 |
| 5 | 40.00 | 1.575 | 30 | 2453720000 |
| 6 | 50.00 | 1.969 | 25 | 2453730000 |
| 7 | 60.00 | 2.362 | 20 | 2453740000 |
| 8 | 70.00 | 2.756 | 10 | 2453750000 |
| 9 | 80.00 | 3.150 | 10 | 2453760000 |
| 10 | 90.00 | 3.543 | 1 | 2453770000 |
| 11 | 100.00 | 3.937 | 1 | 2453780000 |
| 12 | 110.00 | 4.331 | 1 | 2453790000 |



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

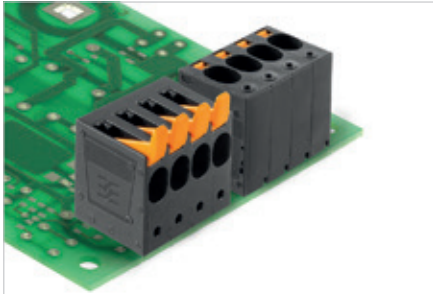
Energy

Transportation

Device Manufacturers

Infrastructure

LUF5 10.00../180



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm².

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 180° version

preliminary Technical data

| In compliance with IEC 60664-1 / IEC 61984 | | | |
|--------------------------------------------|-----------------------|-----------------|-----------------|
| Clamping range, max. | mm ² | 0.5...16 | |
| Solid core H05(07) V-U | mm² | 0.5...16 | |
| Stranded H07 V-R | mm ² | 6...16 | |
| Flexible H05(07) V-K | mm ² | 0.5...16 | |
| Flexible with ferrule | mm ² | 0.5...16 | |
| Ferrule with plastic collar | mm ² | 0.5...16 | |
| Stripping length | mm | 18 | |
| Screwdriver blade | mm | 0.8 x 4.0 | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | 76 | 76 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 630 | 690 1000 |
| Rated impulse voltage | kV | 6 | 6 6 |
| UL / CUL (Use Group) | | B | C D |
| Rated voltage | V | 300 | 150 600 |
| Rated current | A | 61 | 61 5 |
| AWG conductor | AWG | 20-4 | |
| CSA (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 58 | 58 5 |
| AWG conductor | AWG | 20-4 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2, Octagonal | |
| Solder eyelet Ø = D | mm | 1.6 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 300 V / 61 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

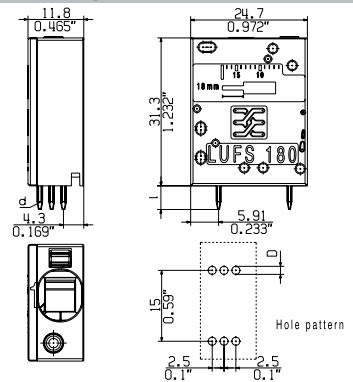
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF5 10.00../180



Dimensioned drawing



Ordering data

| Solder pin length | | 5 mm | | |
|-------------------|------|-----------------|------|-------------------|
| Colour | | Black | | |
| Pitch | | 10.00 mm | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 1 | 0.00 | 0.000 | 50 | 2491810000 |

Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Screwdriver | | Order No. |
|-------------|------------------|-------------------|
| | SDIS 0.8X4.0X100 | 9008400000 |
| | SDS 0.8X4.0X100 | 9008340000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

LUFS 10.00/./180V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm².

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 180° version

preliminary Technical data

| In compliance with IEC 60664-1 / IEC 61984 | | | |
|--------------------------------------------|-----------------------|-----------------|------------------|
| Clamping range, max. | mm ² | 0.5...16 | |
| Solid core H05(07) V-U | mm² | 0.5...16 | |
| Stranded H07 V-R | mm ² | 6...16 | |
| Flexible H05(07) V-K | mm ² | 0.5...16 | |
| Flexible with ferrule | mm ² | 0.5...16 | |
| Ferrule with plastic collar | mm ² | 0.5...16 | |
| Stripping length | mm | 18 | |
| Screwdriver blade | mm | 0.8 x 4.0 | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | 76 | 76 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 1000 | 1000 1000 |
| Rated impulse voltage | kV | 8 | 8 8 |
| UL / CUL (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 58 | 58 5 |
| AWG conductor | AWG | 20-4 | |
| CSA (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 58 | 58 5 |
| AWG conductor | AWG | 20-4 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2, Octagonal | |
| Solder eyelet Ø = D | mm | 1.6 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 58 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

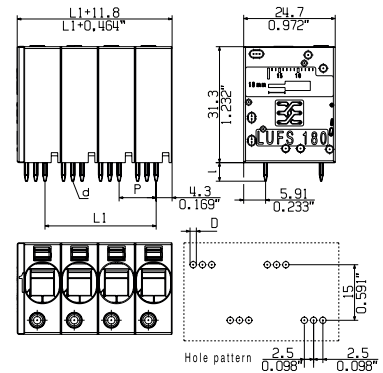
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 10.00/./180V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Screwdriver | | Order No. |
|-------------|------------------|------------|
| | SDIS 0.8X4.0X100 | 9008400000 |
| | SDS 0.8X4.0X100 | 9008340000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

Ordering data

| Solder pin length | | 5 mm | | |
|-------------------|--------|----------|------|------------|
| Colour | | Black | | |
| Pitch | | 10.00 mm | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 2 | 10.00 | 0.394 | 40 | 2492110000 |
| 3 | 20.00 | 0.787 | 40 | 2492120000 |
| 4 | 30.00 | 1.181 | 30 | 2492130000 |
| 5 | 40.00 | 1.575 | 25 | 2492140000 |
| 6 | 50.00 | 1.969 | 20 | 2492150000 |
| 7 | 60.00 | 2.362 | 10 | 2492160000 |
| 8 | 70.00 | 2.756 | 10 | 2492170000 |
| 9 | 80.00 | 3.150 | 10 | 2492180000 |
| 10 | 90.00 | 3.543 | 10 | 2492190000 |
| 11 | 100.00 | 3.937 | 10 | 2492200000 |
| 12 | 110.00 | 4.331 | 10 | 2492210000 |

Technical data

Machinery

Process

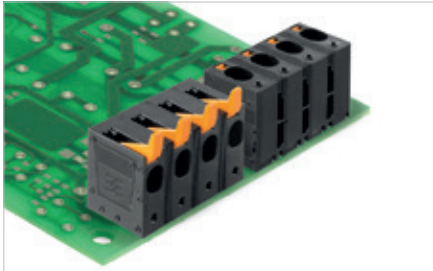
Energy

Transportation

Device Manufacturers

Infrastructure

LUF 15.00/..90



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm² in 15.00 mm pitch

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 90° version

preliminary Technical data

| | | | |
|---------------------------------------------------|-----------------------|-----------------|------------------|
| In compliance with IEC 60664-1 / IEC 61984 | | | |
| Clamping range, max. | mm ² | 0.5...16 | |
| Solid core H05(07) V-U | mm² | 0.5...16 | |
| Stranded H07 V-R | mm ² | 6...16 | |
| Flexible H05(07) V-K | mm ² | 0.5...16 | |
| Flexible with ferrule | mm ² | 0.5...16 | |
| Ferrule with plastic collar | mm ² | 0.5...16 | |
| Stripping length | mm | 18 | |
| Screwdriver blade | mm | 0.8 x 4.0 | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | 76 | 76 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 1000 | 1000 1000 |
| Rated impulse voltage | kV | 8 | 8 8 |
| UL / CUL (Use Group) | B C D | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 66 | 66 10 |
| AWG conductor | AWG | 20-4 | |
| CSA (Use Group) | B C D | B | C D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 66 | 66 10 |
| AWG conductor | AWG | 20-4 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2, Octagonal | |
| Solder eyelet Ø = D | mm | 1.6 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

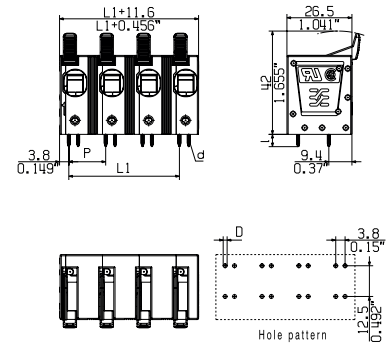
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 15.00/..90



Dimensioned drawing



Accessories

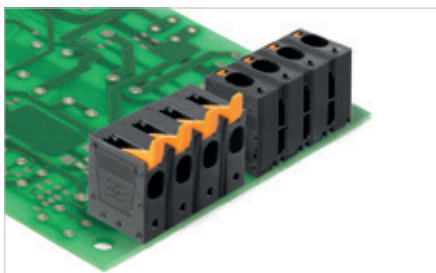
Note: Refer to the Accessories chapter for additional accessories.

| | | |
|--------------------|------------------|-------------------|
| Screwdriver | | Order No. |
| | SDIS 0.8X4.0X100 | 9008400000 |
| | SDS 0.8X4.0X100 | 9008340000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

Ordering data

| Solder pin length | | 5 mm | | |
|--------------------------|--------|-----------------|------|-------------------|
| Colour | | Black | | |
| Pitch | | 15.00 mm | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 2 | 15.00 | 0.590 | 40 | 2491800000 |
| 3 | 30.00 | 1.181 | 40 | 2491900000 |
| 4 | 45.00 | 1.772 | 30 | 2491910000 |
| 5 | 60.00 | 2.362 | 25 | 2491920000 |
| 6 | 75.00 | 2.953 | 20 | 2491930000 |
| 7 | 90.00 | 3.543 | 10 | 2491940000 |
| 8 | 105.00 | 4.134 | 10 | 2491950000 |

LUF 15.00/./90V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm² in 15.00 mm pitch

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction of 90°

preliminary Technical data

| In compliance with IEC 60664-1 / IEC 61984 | | | |
|--------------------------------------------|-----------------------|-----------------|------------------|
| Clamping range, max. | mm ² | 0.5...16 | |
| Solid core H05(07) V-U | mm² | 0.5...16 | |
| Stranded H07 V-R | mm ² | 6...16 | |
| Flexible H05(07) V-K | mm ² | 0.5...16 | |
| Flexible with ferrule | mm ² | 0.5...16 | |
| Ferrule with plastic collar | mm ² | 0.5...16 | |
| Stripping length | mm | 18 | |
| Screwdriver blade | mm | 0.8 x 4.0 | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | 76 | 76 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | III | III II |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 1000 | 1000 1000 |
| Rated impulse voltage | kV | 8 | 8 8 |
| UL / CUL (Use Group) | | | |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 66 | 66 10 |
| AWG conductor | AWG | 20-4 | |
| CSA (Use Group) | | | |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 66 | 66 10 |
| AWG conductor | AWG | 20-4 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2, Octagonal | |
| Solder eyelet Ø = D | mm | 1.6 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmueller.com

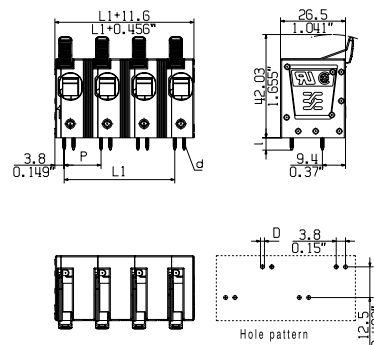
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 15.00/./90V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Screwdriver | | Order No. |
|-------------|------------------|------------|
| | SDIS 0.8X4.0X100 | 9008400000 |
| | SDS 0.8X4.0X100 | 9008340000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

Ordering data

| Solder pin length | | 5 mm | | |
|-------------------|--------|----------|------|------------|
| Colour | | Black | | |
| Pitch | | 15.00 mm | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 2 | 15.00 | 0.590 | 40 | 2492000000 |
| 3 | 30.00 | 1.181 | 40 | 2492010000 |
| 4 | 45.00 | 1.772 | 30 | 2492020000 |
| 5 | 60.00 | 2.362 | 25 | 2492030000 |
| 6 | 75.00 | 2.953 | 20 | 2492040000 |
| 7 | 90.00 | 3.543 | 10 | 2492050000 |
| 8 | 105.00 | 4.134 | 10 | 2492060000 |



Technical data

Machinery

Process

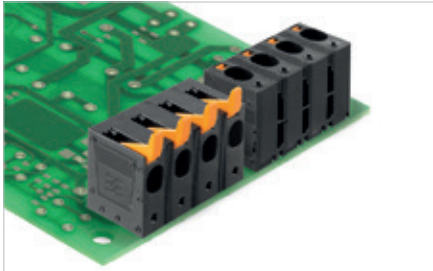
Energy

Transportation

Device Manufacturers

Infrastructure

LUFS 15.00/./180V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm² in 15.00 mm pitch

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 180° version

preliminary Technical data

| | | | |
|---------------------------------------------------|-----------------------|-----------------|------------------|
| In compliance with IEC 60664-1 / IEC 61984 | | | |
| Clamping range, max. | mm ² | 0.5...16 | |
| Solid core H05(07) V-U | mm² | 0.5...16 | |
| Stranded H07 V-R | mm ² | 6...16 | |
| Flexible H05(07) V-K | mm ² | 0.5...16 | |
| Flexible with ferrule | mm ² | 0.5...16 | |
| Ferrule with plastic collar | mm ² | 0.5...16 | |
| Stripping length | mm | 18 | |
| Screwdriver blade | mm | 0.8 x 4.0 | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | 76 | 76 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 1000 | 1000 1000 |
| Rated impulse voltage | kV | 8 | 8 8 |
| UL / CUL (Use Group) | B C D | | |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 66 | 66 10 |
| AWG conductor | AWG | 20-4 | |
| CSA (Use Group) | B C D | | |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 66 | 66 10 |
| AWG conductor | AWG | 20-4 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2, Octagonal | |
| Solder eyelet Ø = D | mm | 1.6 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

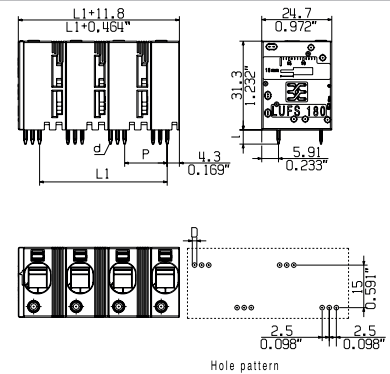
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 15.00/./180V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

| | | |
|--------------------|------------------|-------------------|
| Screwdriver | | Order No. |
| | SDIS 0.8X4.0X100 | 9008400000 |
| | SDS 0.8X4.0X100 | 9008340000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

Ordering data

| Solder pin length | | 5 mm | | |
|--------------------------|--------|-----------------|------|-------------------|
| Colour | | Black | | |
| Pitch | | 15.00 mm | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 2 | 15.00 | 0.590 | 40 | 2491820000 |
| 3 | 30.00 | 1.181 | 40 | 2492220000 |
| 4 | 45.00 | 1.772 | 30 | 2492230000 |
| 5 | 60.00 | 2.362 | 25 | 2492240000 |
| 6 | 75.00 | 2.953 | 20 | 2492250000 |
| 7 | 90.00 | 3.543 | 10 | 2492260000 |
| 8 | 105.00 | 4.134 | 10 | 2492270000 |



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

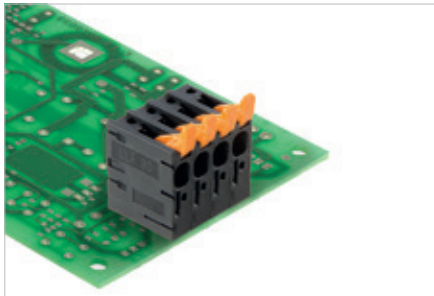
Energy

Transportation

Device Manufacturers

Infrastructure

LLF 7.50/./90



High-performance PCB terminal block with PUSH IN connection technology for wire cross-sections up to 6 mm².

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction of 90°

preliminary Technical data

| In compliance with IEC 60664-1 / IEC 61984 | | | |
|--------------------------------------------|-----------------|----------------|-----------------|
| Clamping range, max. | mm ² | 0.25...6 | |
| Solid core H05(07) V-U | mm ² | 0.5...6 | |
| Stranded H07 V-R | | | |
| Flexible H05(07) V-K | mm ² | 0.5...6 | |
| Flexible with ferrule | mm ² | 0.25...6 | |
| Ferrule with plastic collar | mm ² | 0.25...6 | |
| Stripping length | mm | 12 | |
| Screwdriver blade | mm | | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | | |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 600 | 600 1000 |
| Rated impulse voltage | kV | 6 | 6 6 |
| UL / CUL (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | 24-10 | |
| CSA (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | 24-10 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2 | |
| Solder eyelet Ø = D | mm | 2 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 0.5 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

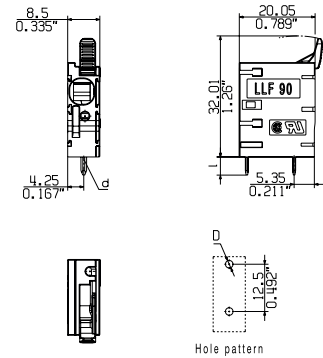
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLF 7.50/./90



Dimensioned drawing



Accessories

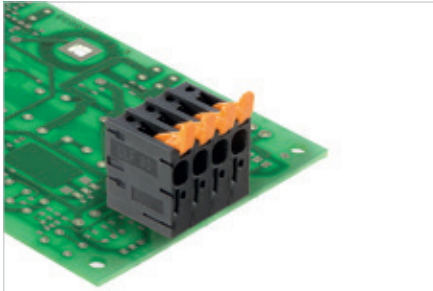
Note: Refer to the Accessories chapter for additional accessories.

| Screwdriver | | Order No. |
|-------------|------------------|-------------------|
| | SDIS 0.5X3.0X100 | 9008380000 |
| | SDS 0.5X3.0X80 | 9008320000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

Ordering data

| Solder pin length | | 5 mm | | |
|-------------------|------|----------------------|------|-------------------|
| Colour | | Black | | |
| Pitch | | 7.50 mm ² | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 1 | 0.00 | 0.000 | 400 | 2471520000 |

LLF 7.50/./90V



High-performance PCB terminal with PUSH IN connection technology for conductor cross-sections up to 6 mm².

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Conductor outlet direction in 90° version

preliminary Technical data

| | | | |
|---------------------------------------------------|-----------------|----------------|------------------|
| In compliance with IEC 60664-1 / IEC 61984 | | | |
| Clamping range, max. | mm ² | 0.25...6 | |
| Solid core H05(07) V-U | mm ² | 0.5...6 | |
| Stranded H07 V-R | | | |
| Flexible H05(07) V-K | mm ² | 0.5...6 | |
| Flexible with ferrule | mm ² | 0.25...6 | |
| Ferrule with plastic collar | mm ² | 0.25...6 | |
| Stripping length | mm | 12 | |
| Screwdriver blade | mm | | |
| According to norm | | | |
| Tightening torque range | | | |
| Rated current, max. | A | | |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | | | |
| Overtoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 1000 | 1000 1000 |
| Rated impulse voltage | kV | 8 | 8 8 |
| UL / CUL (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | 24-10 | |
| CSA (Use Group) | | B | C D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | 24-10 | |
| General data | | | |
| Type of insulation material | | Wemid (PA) | |
| UL 94 flammability rating | | V-0 | |
| Contact base material | | E-Cu | |
| Material of contact surface | | | |
| Pin dimensions = d | mm | 1.2 | |
| Solder eyelet Ø = D | mm | 2 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Product data

IEC: 1000 V / 0.5 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmueller.com

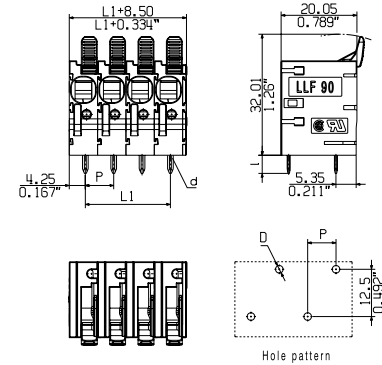
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLF 7.50/./90V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Screwdriver | | Order No. |
|-------------|------------------|-------------------|
| | SDIS 0.5X3.0X100 | 9008380000 |
| | SDS 0.5X3.0X80 | 9008320000 |
| Test plug | | |
| | PS 2.0 MC | 0310000000 |

Ordering data

| Solder pin length | | 5 mm | | |
|----------------------------|-------|--------|------|-------------------|
| Colour | | Black | | |
| Pitch 7.50 mm ² | | | | |
| Pol. | L1 | (inch) | Qty. | Order No. |
| 2 | 7.50 | 0.295 | 200 | 2471530000 |
| 3 | 15.00 | 0.590 | 200 | 2472090000 |
| 4 | 22.50 | 0.885 | 150 | 2472100000 |
| 5 | 30.00 | 1.180 | 100 | 2472110000 |
| 6 | 37.50 | 1.475 | 50 | 2472120000 |
| 7 | 45.00 | 1.770 | 50 | 2472130000 |
| 8 | 52.50 | 2.065 | 50 | 2472140000 |
| 9 | 60.00 | 2.360 | 50 | 2472150000 |
| 10 | 67.50 | 2.655 | 30 | 2472160000 |
| 11 | 75.00 | 2.950 | 30 | 2472170000 |
| 12 | 82.50 | 3.245 | 30 | 2472180000 |

Stripping and crimping machines

- Purely electrically driven for processing harmonised PVC conductors
- Crimping range from 0.5 - 2.5 mm² (AWG 20 - 14)
- Weidmüller wire-end ferrules interlinked on reel
- Adjustable stripping blade
- Integrated daily, total and service counter
- No tool replacement with change of cross-section range
- Simple changing of machine parameters for the entire crimping range

Crimpfix E



Technical data

| Specification | |
|----------------------------|----|
| Stripping range | |
| Crimping length | |
| Length of wire-end ferrule | |
| Pulse time | |
| Cross-section range | |
| Electrical connection | |
| Tool data | |
| Length / Width / Height | mm |
| Weight | kg |
| Note | |

| CRIMPFIX E | |
|----------------------------|-----------------------------|
| Stripping range | 0.5 - 2.5 mm ² |
| Crimping length | 8 mm |
| Length of wire-end ferrule | 14 mm |
| Pulse time | approx. 1.8 sec |
| Cross-section range | 0.5...2.5 mm ² |
| Electrical connection | 100 - 240 V AC / 50 - 60 Hz |
| Length / Width / Height | 349 / 288 / 230 mm |
| Weight | 16 kg |
| Note | |

Ordering data

| Version |
|---------|
| |
| Note |

| Type | Qty. | Order No. |
|------------|------|------------|
| CRIMPFIX E | 1 | 2439140000 |
| Note | | |



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

EPG 60 battery-powered hydraulic crimping tool

- Electrohydraulic battery-powered crimping tool
- Processing of cable lugs and connectors up to 300 mm²
- Quick-closure head rotatable up to 270°
- Automatic pressure limiting and monitoring with pressure sensor
- Motor switch-off and automatic return after completed crimping process
- Electronic control and monitoring of the crimping process
- Integrated service management and software updates via USB
- Multi-function electronics with sleep mode, maintenance display and battery monitoring
- Li-Ion battery with charge state display

EPG 60



Technical data

| Description of contact | |
|----------------------------------|--------|
| Pressing force | kN |
| Tool data | |
| Length x width x height / Weight | mm/GRM |
| Note | |

| EPG 60 | |
|-----------------------|--|
| 60 | |
| 385 / 125 / 80 / 3280 | |
| Weight incl. battery | |

| Areas of application | Ø mm ² |
|-----------------------------------------------------------------|-------------------|
| WM crimping inserts for EURO series | 6 - 300 |
| Hexagonal crimping inserts (DIN 46235) + connectors (DIN 46267) | 6 - 300 (K5-K30) |
| Indent crimping inserts DIN 46234 | 6 - 120 |

Ordering data

| Version | |
|---------|--|
| Note | |

| Type | Qty. | Order No. |
|--------|------|------------|
| EPG 60 | 1 | 2453810000 |
| Note | | |

Accessories

| Replacement battery Li-Ion 18 V, 1.5 Ah | |
|-----------------------------------------|--|
| Charger | |
| Note | |

| Type | Qty. | Order No. |
|----------------|------|------------|
| AKKU EPG | 1 | 1500840000 |
| LADEGERAET EPG | 1 | 1509370000 |
| Note | | |

WM-shape crimp inserts

- For crimping cable lugs and connectors of the Euro series

| Cu mm ² | Crimping width | Type | Order No. |
|--------------------|----------------|------------------|------------|
| 6 | 7 mm | ES EPG 60 WM 6 | 2469380000 |
| 10 | 7 mm | ES EPG 60 WM 10 | 2469540000 |
| 16 | 7 mm | ES EPG 60 WM 16 | 2469550000 |
| 25 | 12 mm | ES EPG 60 WM 25 | 2469560000 |
| 35 | 5 mm | ES EPG 60 WM 35 | 2469570000 |
| 50 | 5 mm | ES EPG 60 WM 50 | 2469580000 |
| 70 | 5 mm | ES EPG 60 WM 70 | 2469590000 |
| 95 | 5 mm | ES EPG 60 WM 95 | 2469600000 |
| 120 | 5 mm | ES EPG 60 WM 120 | 2469610000 |
| 150 | 5 mm | ES EPG 60 WM 150 | 2469620000 |
| 185 | 5 mm | ES EPG 60 WM 185 | 2469630000 |
| 240 | 5 mm | ES EPG 60 WM 240 | 2469640000 |
| 300 | 5 mm | ES EPG 60 WM 300 | 2469650000 |
| Note | | | |

**Hexagonal crimp inserts**

- For crimping compression cable lugs DIN 46235
- CU crimp connectors DIN 46267 Part 1
- Al and Al/Cu compression cable lugs and connectors

| Ident. no. | Cu mm ² | Al mm ² | Crimping width | Type | Order No. |
|-------------|--------------------|--------------------|----------------|-------------------|------------|
| 5 | 6 | | 7 mm | ES EPG 60 HEX 6 | 2505150000 |
| 6 | 10 | | 7 mm | ES EPG 60 HEX 10 | 2505160000 |
| 8 | 16 | | 5 mm | ES EPG 60 HEX 16 | 2505170000 |
| 10 | 25 | 10 | 5 mm | ES EPG 60 HEX 25 | 2505180000 |
| 12 | 35 | 16+25 | 5 mm | ES EPG 60 HEX 35 | 2505190000 |
| 14 | 50 | 35 | 5 mm | ES EPG 60 HEX 50 | 2505200000 |
| 16 | 70 | 50 | 5 mm | ES EPG 60 HEX 70 | 2505210000 |
| 18 | 95 | 70 | 5 mm | ES EPG 60 HEX 95 | 2505220000 |
| 20 | 120 | | 5 mm | ES EPG 60 HEX 120 | 2505230000 |
| 22 | 150 | 95+120 | 5 mm | ES EPG 60 HEX 150 | 2505240000 |
| 25 | 185 | 150 | 5 mm | ES EPG 60 HEX 185 | 2505250000 |
| 28 | 240 | 185 | 5 mm | ES EPG 60 HEX 240 | 2505260000 |
| 32 | 300 | 240 | 5 mm | ES EPG 60 HEX 300 | 2505270000 |
| Note | | | | | |

**Indent crimp inserts**

- For crimping cable lugs DIN 46234
- Pin cable lugs DIN 46230
- Connector DIN 46341 Part 1

| Cu mm ² | Crimping width | Type | Order No. |
|--------------------|----------------|-------------------|------------|
| 6 | 5 mm | ES EPG 60 DIN 6 | 2505280000 |
| 10 | 7 mm | ES EPG 60 DIN 10 | 2505290000 |
| 16 | 10 mm | ES EPG 60 DIN 16 | 2505300000 |
| 25 | 10 mm | ES EPG 60 DIN 25 | 2505310000 |
| 35 | 10 mm | ES EPG 60 DIN 35 | 2505320000 |
| 50 | 12 mm | ES EPG 60 DIN 50 | 2505330000 |
| 70 | 12 mm | ES EPG 60 DIN 70 | 2505340000 |
| 95 | 16 mm | ES EPG 60 DIN 95 | 2505350000 |
| 120 | 16 mm | ES EPG 60 DIN 120 | 2505360000 |
| Note | | | |



EPG Cut 40 battery-powered hydraulic crimping tool

- Electrohydraulic battery-powered cutting tool
- Cutting of CU/AL conductors up to Ø 40 mm
- Quick closure head rotatable up to 360°
- Automatic pressure limiting and monitoring with pressure sensor
- Motor switch-off and automatic return after completed cutting process
- Electronic control and monitoring of the cutting process
- Integrated service management and software updates via USB
- Multi-function electronics with sleep mode, maintenance display and battery monitoring
- Li-Ion battery with charge state display

EPG CUT 40



Technical data

| | |
|----------------------------------|--------|
| Description of contact | |
| Punching force | |
| Tool data | |
| Length x width x height / Weight | mm/GRM |
| Note | |

| | | |
|-----------------------|--|--|
| EPG CUT 40 | | |
| 30 kN | | |
| 440 / 124 / 81 / 2800 | | |
| Weight incl. battery | | |

Ordering data

| | |
|----------------|--|
| Version | |
| Note | |

| Type | Qty. | Order No. |
|------------|------|------------|
| EPG CUT 40 | 1 | 2453830000 |

Accessories

| | |
|-----------------------------------------|--|
| Replacement battery Li-Ion 18 V, 1.5 Ah | |
| Charger | |
| Note | |

| Type | Qty. | Order No. |
|----------------|------|------------|
| AKKU EPG | 1 | 1500840000 |
| LADEGERAET EPG | 1 | 1509370000 |

| Cutting ranges | Ø mm ² |
|---------------------------------|---------------------------|
| CU to max. | Ø 40 mm |
| AL to max. | Ø 40 mm |
| Multi-wire cutting range | |
| CU to max. | 1x 240 mm or 4 x 50 mm |
| AL to max. | 1x 500 mm or 4x 70 mm |

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

2-pole voltage testers

VT CTB

2-pole voltage tester for cars



- Test probe
- Pin with sliding mechanism
- Cable length 130 cm
- Polarity detection

VT

2-pole voltage tester



- LED display for voltage and polarity
- Works without batteries
- Impact-resistant housing
- One-handed operation for sockets

Technical data

| |
|--------------------------|
| Nominal voltage |
| Display |
| Frequency range, min. |
| Measuring range category |
| Protection degree |
| Approvals |
| Weight |
| Note |

| |
|----------------------|
| VT CTB |
| 3 V DC...48 V DC |
| LED |
| 0...65 Hz |
| IP40 |
| EN 61010-1, EN 61326 |
| 50 g |
| Note |

| |
|--------------------------------|
| VT |
| 12 V AC/DC...690 V AC/DC |
| LED |
| 0...65 Hz |
| CAT III 600 V, CAT IV 300 V |
| IP64 |
| EN/ IEC 61010, EN 61243-3 2010 |
| 115 g |
| Note |

Ordering data

| |
|---------|
| Version |
| Note |

| Type | Qty. | Order No. |
|--------|------|------------|
| VT CTB | 1 | 9918970000 |
| Note | | |

| Type | Qty. | Order No. |
|------|------|------------|
| VT | 1 | 9918950000 |
| Note | | |

Accessories

| |
|------|
| Note |
|------|

| Type | Qty. | Order No. |
|---------------------|------|------------|
| SKAI TASCHÉ | 1 | 9201520000 |
| BATTERIE 1,5V MICRO | 2 | 9201310000 |
| Note | | |

| Type | Qty. | Order No. |
|---------------------|------|------------|
| SKAI TASCHÉ | 1 | 9201520000 |
| BATTERIE 1,5V MICRO | 2 | 9201310000 |
| Note | | |

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

Non-contact voltage testers

VT CL

Non-contact voltage tester



- Overvoltage category CAT IV 1000V
- Visible and acoustic voltage display
- Water-resistant and robust housing

VT LCL

Non-contact voltage tester



- Overvoltage category CAT IV 1000V
- Visible and acoustic voltage display
- Integrated flashlight
- Two selectable voltage levels / sensitivity ranges
- Including battery monitoring

Technical data

| |
|--------------------------|
| Nominal voltage |
| Display |
| Protection degree |
| Measuring range category |
| Battery type |
| Approvals |
| Weight |
| Note |

| |
|------------------------------|
| VT CL |
| 50 V AC...1000 V AC |
| Visual & acoustic |
| IP65 |
| CAT IV 1000 V |
| 1.5 V type AAA battery |
| DIN EN 61010-1, DIN EN 61326 |
| 60 g |

| |
|------------------------------|
| VT LCL |
| 12 V AC...1000 V AC |
| Visual & acoustic |
| IP65 |
| CAT IV 1000 V |
| 1.5 V type AAA battery |
| DIN EN 61010-1, DIN EN 61326 |
| 60 g |

Ordering data

| |
|----------------|
| Version |
| Note |

| Type | Qty. | Order No. |
|-------|------|------------|
| VT CL | 1 | 2436660000 |

| Type | Qty. | Order No. |
|--------|------|------------|
| VT LCL | 1 | 2436670000 |

Accessories

| |
|-------------|
| Note |
|-------------|

| Type | Qty. | Order No. |
|---------------------|------|------------|
| BATTERIE 1,5V MICRO | 2 | 9201310000 |

| Type | Qty. | Order No. |
|---------------------|------|------------|
| BATTERIE 1,5V MICRO | 2 | 9201310000 |

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Continuity testers and non-contact magnetic field testers

VT M

Non-contact magnetic field tester



- Integrated flashlight
- Magnetic field displayed with a red LED
- Water-resistant and robust housing
- Including battery monitoring

VT CTL

Continuity tester



- Flashlight function with continuous light
- Visual and acoustic feed-through
- Resistant to interference voltage

Technical data

| |
|-------------------|
| Display |
| Protection degree |
| Battery type |
| Approvals |
| Weight |
| Note |

| |
|------------------------------|
| VT M |
| Visual & acoustic |
| IP65 |
| 1.5 V type AAA battery |
| DIN EN 61010-1, DIN EN 61326 |
| 60 g |
| Note |

| |
|------------------------|
| VT CTL |
| Visual & acoustic |
| IP44 |
| 1.5 V type AAA battery |
| DIN EN 61010-1 |
| 140 g |
| Note |

Ordering data

| |
|----------------|
| Version |
| Note |

| Type | Qty. | Order No. |
|-------------|------|------------|
| VT M | 1 | 2436680000 |
| Note | | |

| Type | Qty. | Order No. |
|-------------|------|------------|
| VT CTL | 1 | 2436690000 |
| Note | | |

Accessories

| |
|-------------|
| Note |
|-------------|

| Type | Qty. | Order No. |
|---------------------|------|------------|
| BATTERIE 1,5V MICRO | 2 | 9201310000 |
| Note | | |

| Type | Qty. | Order No. |
|---------------------|------|------------|
| BATTERIE 1,5V MICRO | 2 | 9201310000 |
| Note | | |

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

HS... 25,4 mm

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|-------------------|------------------------|
| Polyolefine | 3:1 | -55...135 °C | 90 °C | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|----------------------|----------|---------|----------------|------|
| 2437470000 | HS 0.8-2.4/25 MM W | ○ White | 25.4 mm | 0.8 - 2.4 mm | 2000 |
| 2437480000 | HS 0.8-2.4/25 MM Y | ● Yellow | 25.4 mm | 0.8 - 2.4 mm | 2000 |
| 2437510000 | HS 1.0-3.2/25 MM W | ○ White | 25.4 mm | 1 - 3.2 mm | 2000 |
| 2437520000 | HS 1.0-3.2/25 MM Y | ● Yellow | 25.4 mm | 1 - 3.2 mm | 2000 |
| 2437550000 | HS 1.6-4.8/25 MM W | ○ White | 25.4 mm | 1.6 - 4.8 mm | 2000 |
| 2437560000 | HS 1.6-4.8/25 MM Y | ● Yellow | 25.4 mm | 1.6 - 4.8 mm | 2000 |
| 2437630000 | HS 2.1-6.4/25 MM W | ○ White | 25.4 mm | 2.1 - 6.4 mm | 2000 |
| 2437640000 | HS 2.1-6.4/25 MM Y | ● Yellow | 25.4 mm | 2.1 - 6.4 mm | 2000 |
| 2437670000 | HS 3.2-9.5/25 MM W | ○ White | 25.4 mm | 3.2 - 9.5 mm | 1000 |
| 2437680000 | HS 3.2-9.5/25 MM Y | ● Yellow | 25.4 mm | 3.2 - 9.5 mm | 1000 |
| 2437710000 | HS 4.2-12.7/25 MM W | ○ White | 25.4 mm | 4.2 - 12.7 mm | 1000 |
| 2437720000 | HS 4.2-12.7/25 MM Y | ● Yellow | 25.4 mm | 4.2 - 12.7 mm | 1000 |
| 2437750000 | HS 6.4-19.1/25 MM W | ○ White | 25.4 mm | 6.4 - 19.1 mm | 800 |
| 2437760000 | HS 6.4-19.1/25 MM Y | ● Yellow | 25.4 mm | 6.4 - 19.1 mm | 800 |
| 2437790000 | HS 8.5-25.4/25 MM W | ○ White | 25.4 mm | 8.5 - 25.4 mm | 400 |
| 2437800000 | HS 8.5-25.4/25 MM Y | ● Yellow | 25.4 mm | 8.5 - 25.4 mm | 400 |
| 2437590000 | HS 12.7-38.1/25 MM W | ○ White | 25.4 mm | 12.7 - 38.1 mm | 200 |
| 2437600000 | HS 12.7-38.1/25 MM Y | ● Yellow | 25.4 mm | 12.7 - 38.1 mm | 200 |



HS... 50,8 mm

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|-------------------|------------------------|
| Polyolefine | 3:1 | -55...135 °C | 90 °C | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|----------------------|----------|---------|----------------|------|
| 2437490000 | HS 0.8-2.4/50 MM W | ○ White | 50.8 mm | 0.8 - 2.4 mm | 1000 |
| 2437500000 | HS 0.8-2.4/50 MM Y | ● Yellow | 50.8 mm | 0.8 - 2.4 mm | 1000 |
| 2437530000 | HS 1.0-3.2/50 MM W | ○ White | 50.8 mm | 1 - 3.2 mm | 1000 |
| 2437540000 | HS 1.0-3.2/50 MM Y | ● Yellow | 50.8 mm | 1 - 3.2 mm | 1000 |
| 2437570000 | HS 1.6-4.8/50 MM W | ○ White | 50.8 mm | 1.6 - 4.8 mm | 1000 |
| 2437580000 | HS 1.6-4.8/50 MM Y | ● Yellow | 50.8 mm | 1.6 - 4.8 mm | 1000 |
| 2437650000 | HS 2.1-6.4/50 MM W | ○ White | 50.8 mm | 2.1 - 6.4 mm | 1000 |
| 2437660000 | HS 2.1-6.4/50 MM Y | ● Yellow | 50.8 mm | 2.1 - 6.4 mm | 1000 |
| 2437690000 | HS 3.2-9.5/50 MM W | ○ White | 50.8 mm | 3.2 - 9.5 mm | 500 |
| 2437700000 | HS 3.2-9.5/50 MM Y | ● Yellow | 50.8 mm | 3.2 - 9.5 mm | 500 |
| 2437730000 | HS 4.2-12.7/50 MM W | ○ White | 50.8 mm | 4.2 - 12.7 mm | 500 |
| 2437740000 | HS 4.2-12.7/50 MM Y | ● Yellow | 50.8 mm | 4.2 - 12.7 mm | 500 |
| 2437770000 | HS 6.4-19.1/50 MM W | ○ White | 50.8 mm | 6.4 - 19.1 mm | 400 |
| 2437780000 | HS 6.4-19.1/50 MM Y | ● Yellow | 50.8 mm | 6.4 - 19.1 mm | 400 |
| 2437810000 | HS 8.5-25.4/50 MM W | ○ White | 50.8 mm | 8.5 - 25.4 mm | 200 |
| 2437820000 | HS 8.5-25.4/50 MM Y | ● Yellow | 50.8 mm | 8.5 - 25.4 mm | 200 |
| 2437610000 | HS 12.7-38.1/50 MM W | ○ White | 50.8 mm | 12.7 - 38.1 mm | 100 |
| 2437620000 | HS 12.7-38.1/50 MM Y | ● Yellow | 50.8 mm | 12.7 - 38.1 mm | 100 |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

HS-HF 25.4 mm

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyolefine | 2:1 | -55...105 °C | 90 °C | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|-------------------------|----------|---------|----------------|------|
| 2437830000 | HS-HF 1.2-2.4/25 MM W | ○ White | 25.4 mm | 1.2 - 2.4 mm | 2000 |
| 2437840000 | HS-HF 1.2-2.4/25 MM Y | ● Yellow | 25.4 mm | 1.2 - 2.4 mm | 2000 |
| 2437870000 | HS-HF 1.6-3.2/25 MM W | ○ White | 25.4 mm | 1.6 - 3.2 mm | 2000 |
| 2437880000 | HS-HF 1.6-3.2/25 MM Y | ● Yellow | 25.4 mm | 1.6 - 3.2 mm | 2000 |
| 2437990000 | HS-HF 2.4-4.8/25 MM W | ○ White | 25.4 mm | 2.4 - 4.8 mm | 2000 |
| 2438000000 | HS-HF 2.4-4.8/25 MM Y | ● Yellow | 25.4 mm | 2.4 - 4.8 mm | 2000 |
| 2438040000 | HS-HF 3.2-6.4/25 MM W | ○ White | 25.4 mm | 3.2 - 6.4 mm | 2000 |
| 2438050000 | HS-HF 3.2-6.4/25 MM Y | ● Yellow | 25.4 mm | 3.2 - 6.4 mm | 2000 |
| 2438090000 | HS-HF 4.8-9.5/25 MM W | ○ White | 25.4 mm | 4.8 - 9.5 mm | 1000 |
| 2438100000 | HS-HF 4.8-9.5/25 MM Y | ● Yellow | 25.4 mm | 4.8 - 9.5 mm | 1000 |
| 2438140000 | HS-HF 6.4-12.7/25 MM W | ○ White | 25.4 mm | 6.4 - 12.7 mm | 1000 |
| 2438150000 | HS-HF 6.4-12.7/25 MM Y | ● Yellow | 25.4 mm | 6.4 - 12.7 mm | 1000 |
| 2438190000 | HS-HF 9.5-19.1/25 MM W | ○ White | 25.4 mm | 9.5 - 19.1 mm | 800 |
| 2438200000 | HS-HF 9.5-19.1/25 MM Y | ● Yellow | 25.4 mm | 9.5 - 19.1 mm | 800 |
| 2437910000 | HS-HF 12.7-25.4/25 MM W | ○ White | 25.4 mm | 12.7 - 25.4 mm | 400 |
| 2437920000 | HS-HF 12.7-25.4/25 MM Y | ● Yellow | 25.4 mm | 12.7 - 25.4 mm | 400 |
| 2437950000 | HS-HF 19.5-38.1/25 MM W | ○ White | 25.4 mm | 19.5 - 38.1 mm | 200 |
| 2437960000 | HS-HF 19.5-38.1/25 MM Y | ● Yellow | 25.4 mm | 19.5 - 38.1 mm | 200 |

HS-HF 50.8 mm

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|------------|------------------------|
| Polyolefine | 2:1 | -55...105 °C | 90 °C | 2448880000 | RIBBON MM-HS 60/300 SW |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|-------------------------|----------|---------|----------------|------|
| 2437850000 | HS-HF 1.2-2.4/50 MM W | ○ White | 50.8 mm | 1.2 - 2.4 mm | 1000 |
| 2437860000 | HS-HF 1.2-2.4/50 MM Y | ● Yellow | 50.8 mm | 1.2 - 2.4 mm | 1000 |
| 2437890000 | HS-HF 1.6-3.2/50 MM W | ○ White | 50.8 mm | 1.6 - 3.2 mm | 1000 |
| 2437900000 | HS-HF 1.6-3.2/50 MM Y | ● Yellow | 50.8 mm | 1.6 - 3.2 mm | 1000 |
| 2438010000 | HS-HF 2.4-4.8/50 MM W | ○ White | 50.8 mm | 2.4 - 4.8 mm | 1000 |
| 2438020000 | HS-HF 2.4-4.8/50 MM Y | ● Yellow | 50.8 mm | 2.4 - 4.8 mm | 1000 |
| 2438060000 | HS-HF 3.2-6.4/50 MM W | ○ White | 50.8 mm | 3.2 - 6.4 mm | 1000 |
| 2438070000 | HS-HF 3.2-6.4/50 MM Y | ● Yellow | 50.8 mm | 3.2 - 6.4 mm | 1000 |
| 2438110000 | HS-HF 4.8-9.5/50 MM W | ○ White | 50.8 mm | 4.8 - 9.5 mm | 500 |
| 2438120000 | HS-HF 4.8-9.5/50 MM Y | ● Yellow | 50.8 mm | 4.8 - 9.5 mm | 500 |
| 2438160000 | HS-HF 6.4-12.7/50 MM W | ○ White | 50.8 mm | 6.4 - 12.7 mm | 500 |
| 2438170000 | HS-HF 6.4-12.7/50 MM Y | ● Yellow | 50.8 mm | 6.4 - 12.7 mm | 500 |
| 2438210000 | HS-HF 9.5-19.1/50 MM W | ○ White | 50.8 mm | 9.5 - 19.1 mm | 400 |
| 2438220000 | HS-HF 9.5-19.1/50 MM Y | ● Yellow | 50.8 mm | 9.5 - 19.1 mm | 400 |
| 2437930000 | HS-HF 12.7-25.4/50 MM W | ○ White | 50.8 mm | 12.7 - 25.4 mm | 200 |
| 2437940000 | HS-HF 12.7-25.4/50 MM Y | ● Yellow | 50.8 mm | 12.7 - 25.4 mm | 200 |
| 2437970000 | HS-HF 19.5-38.1/50 MM W | ○ White | 50.8 mm | 19.5 - 38.1 mm | 100 |
| 2437980000 | HS-HF 19.5-38.1/50 MM Y | ● Yellow | 50.8 mm | 19.5 - 38.1 mm | 100 |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

HSS... Endless 13 meters

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|------------|-------------------------|
| Polyolefine | 3:1 | -55...135 °C | 90 °C | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|----------------------|--------|----------|----------------|------|
| 1489620000 | HSS 0.8-2.4 EL W13M | White | 13000 mm | 0.8 - 2.4 mm | 1 |
| 1489530000 | HSS 0.8-2.4 EL Y13M | Yellow | 13000 mm | 0.8 - 2.4 mm | 1 |
| 1489630000 | HSS 1.0-3.2 EL W13M | White | 13000 mm | 1 - 3.2 mm | 1 |
| 1489540000 | HSS 1.0-3.2 EL Y13M | Yellow | 13000 mm | 1 - 3.2 mm | 1 |
| 1489640000 | HSS 1.6-4.8 EL W13M | White | 13000 mm | 1.6 - 4.8 mm | 1 |
| 1489550000 | HSS 1.6-4.8 EL Y13M | Yellow | 13000 mm | 1.6 - 4.8 mm | 1 |
| 1489650000 | HSS 2.1-6.4 EL W13M | White | 13000 mm | 2.1 - 6.4 mm | 1 |
| 1489560000 | HSS 2.1-6.4 EL Y13M | Yellow | 13000 mm | 2.1 - 6.4 mm | 1 |
| 1489660000 | HSS 3.2-9.5 EL W13M | White | 13000 mm | 3.2 - 9.5 mm | 1 |
| 1489570000 | HSS 3.2-9.5 EL Y13M | Yellow | 13000 mm | 3.2 - 9.5 mm | 1 |
| 1489670000 | HSS 4.2-12.7 EL W13M | White | 13000 mm | 4.2 - 12.7 mm | 1 |
| 1489580000 | HSS 4.2-12.7 EL Y13M | Yellow | 13000 mm | 4.2 - 12.7 mm | 1 |
| 1489680000 | HSS 6.4-19.1 EL W13M | White | 13000 mm | 6.4 - 19.1 mm | 1 |
| 1489590000 | HSS 6.4-19.1 EL Y13M | Yellow | 13000 mm | 6.4 - 19.1 mm | 1 |



HSS... Endless 30 meters

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|------------|-------------------------|
| Polyolefine | 3:1 | -55...135 °C | 90 °C | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|----------------------|--------|----------|----------------|------|
| 1505840000 | HSS 0.8-2.4 EL W30M | White | 30000 mm | 0.8 - 2.4 mm | 1 |
| 1505760000 | HSS 0.8-2.4 EL Y30M | Yellow | 30000 mm | 0.8 - 2.4 mm | 1 |
| 1505850000 | HSS 1.0-3.2 EL W30M | White | 30000 mm | 1 - 3.2 mm | 1 |
| 1505770000 | HSS 1.0-3.2 EL Y30M | Yellow | 30000 mm | 1 - 3.2 mm | 1 |
| 1505860000 | HSS 1.6-4.8 EL W30M | White | 30000 mm | 1.6 - 4.8 mm | 1 |
| 1505780000 | HSS 1.6-4.8 EL Y30M | Yellow | 30000 mm | 1.6 - 4.8 mm | 1 |
| 1505870000 | HSS 2.1-6.4 EL W30M | White | 30000 mm | 2.1 - 6.4 mm | 1 |
| 1505790000 | HSS 2.1-6.4 EL Y30M | Yellow | 30000 mm | 2.1 - 6.4 mm | 1 |
| 1505880000 | HSS 3.2-9.5 EL W30M | White | 30000 mm | 3.2 - 9.5 mm | 1 |
| 1505800000 | HSS 3.2-9.5 EL Y30M | Yellow | 30000 mm | 3.2 - 9.5 mm | 1 |
| 1505890000 | HSS 4.2-12.7 EL W30M | White | 30000 mm | 4.2 - 12.7 mm | 1 |
| 1505810000 | HSS 4.2-12.7 EL Y30M | Yellow | 30000 mm | 4.2 - 12.7 mm | 1 |
| 1505900000 | HSS 6.4-19.1 EL W30M | White | 30000 mm | 6.4 - 19.1 mm | 1 |
| 1505820000 | HSS 6.4-19.1 EL Y30M | Yellow | 30000 mm | 6.4 - 19.1 mm | 1 |
| 1505910000 | HSS 8.5-25.4 EL W30M | White | 30000 mm | 8.5 - 25.4 mm | 1 |
| 1505830000 | HSS 8.5-25.4 EL Y30M | Yellow | 30000 mm | 8.5 - 25.4 mm | 1 |



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

HSS-HF... Halogen-free Endless 13 meters

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|-------------------|-------------------------|
| Polyolefine | 2:1 | -55...105 °C | 90 °C | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|-------------------------|--------|----------|----------------|------|
| 1423330000 | HSS-HF 1.2-2.4 EL W13M | White | 13000 mm | 1.2 - 2.4 mm | 1 |
| 1423220000 | HSS-HF 1.2-2.4 EL Y13M | Yellow | 13000 mm | 1.2 - 2.4 mm | 1 |
| 1423340000 | HSS-HF 1.6-3.2 EL W13M | White | 13000 mm | 1.6 - 3.2 mm | 1 |
| 1423230000 | HSS-HF 1.6-3.2 EL Y13M | Yellow | 13000 mm | 1.6 - 3.2 mm | 1 |
| 1423350000 | HSS-HF 2.4-4.8 EL W13M | White | 13000 mm | 2.4 - 4.8 mm | 1 |
| 1423240000 | HSS-HF 2.4-4.8 EL Y13M | Yellow | 13000 mm | 2.4 - 4.8 mm | 1 |
| 1423360000 | HSS-HF 3.2-6.4 EL W13M | White | 13000 mm | 3.2 - 6.4 mm | 1 |
| 1423250000 | HSS-HF 3.2-6.4 EL Y13M | Yellow | 13000 mm | 3.2 - 6.4 mm | 1 |
| 1423370000 | HSS-HF 4.8-9.5 EL W13M | White | 13000 mm | 4.8 - 9.5 mm | 1 |
| 1423260000 | HSS-HF 4.8-9.5 EL Y13M | Yellow | 13000 mm | 4.8 - 9.5 mm | 1 |
| 1423380000 | HSS-HF 6.4-12.7 EL W13M | White | 13000 mm | 6.4 - 12.7 mm | 1 |
| 1423270000 | HSS-HF 6.4-12.7 EL Y13M | Yellow | 13000 mm | 6.4 - 12.7 mm | 1 |

HSS-HF... Halogen-free Endless 10 meters

Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|-------------------|-------------------------|
| Polyolefine | 2:1 | -55...105 °C | 90 °C | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|--------------------------|--------|----------|----------------|------|
| 1423390000 | HSS-HF 9.5-19.1 EL W10M | White | 10000 mm | 9.5 - 19.1 mm | 1 |
| 1423280000 | HSS-HF 9.5-19.1 EL Y10M | Yellow | 10000 mm | 9.5 - 19.1 mm | 1 |
| 1423410000 | HSS-HF 12.7-25.4 EL W10M | White | 10000 mm | 12.7 - 25.4 mm | 1 |
| 1423290000 | HSS-HF 12.7-25.4 EL Y10M | Yellow | 10000 mm | 12.7 - 25.4 mm | 1 |



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure



HSS-HF... Halogen-free Endless 30 meters



Technical data

| Material | Rate of shrinkage | Temperature range | recom. Shrinks. | Order No. | Type |
|-------------|-------------------|-------------------|-----------------|-------------------|-------------------------|
| Polyolefine | 2:1 | -55...105 °C | 90 °C | 1426210000 | RIBBON HSS HF EL 40/300 |

Ordering data

| Order No. | Type | Colour | Length | Conductor O.D. | Qty. |
|------------|--------------------------|--------|----------|----------------|------|
| 1562840000 | HSS-HF 1.2-2.4 EL B30M | Blue | 30000 mm | 1.2 - 2.4 mm | 1 |
| 1562940000 | HSS-HF 1.2-2.4 EL G30M | Green | 30000 mm | 1.2 - 2.4 mm | 1 |
| 1562740000 | HSS-HF 1.2-2.4 EL R30M | Red | 30000 mm | 1.2 - 2.4 mm | 1 |
| 1513240000 | HSS-HF 1.2-2.4 EL W30M | White | 30000 mm | 1.2 - 2.4 mm | 1 |
| 1513140000 | HSS-HF 1.2-2.4 EL Y30M | Yellow | 30000 mm | 1.2 - 2.4 mm | 1 |
| 1562850000 | HSS-HF 1.6-3.2 EL B30M | Blue | 30000 mm | 1.6 - 3.2 mm | 1 |
| 1562950000 | HSS-HF 1.6-3.2 EL G30M | Green | 30000 mm | 1.6 - 3.2 mm | 1 |
| 1562750000 | HSS-HF 1.6-3.2 EL R30M | Red | 30000 mm | 1.6 - 3.2 mm | 1 |
| 1513250000 | HSS-HF 1.6-3.2 EL W30M | White | 30000 mm | 1.6 - 3.2 mm | 1 |
| 1513150000 | HSS-HF 1.6-3.2 EL Y30M | Yellow | 30000 mm | 1.6 - 3.2 mm | 1 |
| 1562870000 | HSS-HF 2.4-4.8 EL B30M | Blue | 30000 mm | 2.4 - 4.8 mm | 1 |
| 1562970000 | HSS-HF 2.4-4.8 EL G30M | Green | 30000 mm | 2.4 - 4.8 mm | 1 |
| 1562770000 | HSS-HF 2.4-4.8 EL R30M | Red | 30000 mm | 2.4 - 4.8 mm | 1 |
| 1513270000 | HSS-HF 2.4-4.8 EL W30M | White | 30000 mm | 2.4 - 4.8 mm | 1 |
| 1513170000 | HSS-HF 2.4-4.8 EL Y30M | Yellow | 30000 mm | 2.4 - 4.8 mm | 1 |
| 1562880000 | HSS-HF 3.2-6.4 EL B30M | Blue | 30000 mm | 3.2 - 6.4 mm | 1 |
| 1562980000 | HSS-HF 3.2-6.4 EL G30M | Green | 30000 mm | 3.2 - 6.4 mm | 1 |
| 1562780000 | HSS-HF 3.2-6.4 EL R30M | Red | 30000 mm | 3.2 - 6.4 mm | 1 |
| 1513280000 | HSS-HF 3.2-6.4 EL W30M | White | 30000 mm | 3.2 - 6.4 mm | 1 |
| 1513180000 | HSS-HF 3.2-6.4 EL Y30M | Yellow | 30000 mm | 3.2 - 6.4 mm | 1 |
| 1562890000 | HSS-HF 4.8-9.5 EL B 30M | Blue | 30000 mm | 4.8 - 9.5 mm | 1 |
| 1562990000 | HSS-HF 4.8-9.5 EL G 30M | Green | 30000 mm | 4.8 - 9.5 mm | 1 |
| 1562790000 | HSS-HF 4.8-9.5 EL R 30M | Red | 30000 mm | 4.8 - 9.5 mm | 1 |
| 1513290000 | HSS-HF 4.8-9.5 EL W30M | White | 30000 mm | 4.8 - 9.5 mm | 1 |
| 1513190000 | HSS-HF 4.8-9.5 EL Y30M | Yellow | 30000 mm | 4.8 - 9.5 mm | 1 |
| 1562900000 | HSS-HF 6.4-12.7 EL B30M | Blue | 30000 mm | 6.4 - 12.7 mm | 1 |
| 1563020000 | HSS-HF 6.4-12.7 EL G30M | Green | 30000 mm | 6.4 - 12.7 mm | 1 |
| 1562800000 | HSS-HF 6.4-12.7 EL R30M | Red | 30000 mm | 6.4 - 12.7 mm | 1 |
| 1513300000 | HSS-HF 6.4-12.7 EL W30M | White | 30000 mm | 6.4 - 12.7 mm | 1 |
| 1513200000 | HSS-HF 6.4-12.7 EL Y30M | Yellow | 30000 mm | 6.4 - 12.7 mm | 1 |
| 1562920000 | HSS-HF 9.5-19.1 EL B30M | Blue | 30000 mm | 9.5 - 19.1 mm | 1 |
| 1563030000 | HSS-HF 9.5-19.1 EL G30M | Green | 30000 mm | 9.5 - 19.1 mm | 1 |
| 1562820000 | HSS-HF 9.5-19.1 EL R30M | Red | 30000 mm | 9.5 - 19.1 mm | 1 |
| 1513320000 | HSS-HF 9.5-19.1 EL W30M | White | 30000 mm | 9.5 - 19.1 mm | 1 |
| 1513220000 | HSS-HF 9.5-19.1 EL Y30M | Yellow | 30000 mm | 9.5 - 19.1 mm | 1 |
| 1562930000 | HSS-HF 12.7-25.4 EL B30M | Blue | 30000 mm | 12.7 - 25.4 mm | 1 |
| 1563040000 | HSS-HF 12.7-25.4 EL G30M | Green | 30000 mm | 12.7 - 25.4 mm | 1 |
| 1562830000 | HSS-HF 12.7-25.4 EL R30M | Red | 30000 mm | 12.7 - 25.4 mm | 1 |
| 1513330000 | HSS-HF 12.7-25.4 EL W30M | White | 30000 mm | 12.7 - 25.4 mm | 1 |
| 1513230000 | HSS-HF 12.7-25.4 EL Y30M | Yellow | 30000 mm | 12.7 - 25.4 mm | 1 |

Technical data

Machinery

Process

Energy

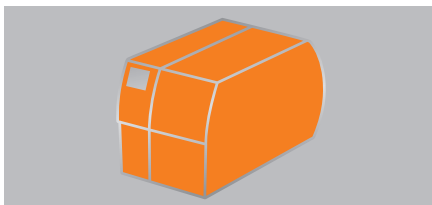
Transportation

Device
Manufacturers

Infrastructure

Thermal transfer printer

THM Plus M



Technical data

| | |
|-----------------------------------|-----------------------------------------------|
| EAN | 4050118462951 |
| Length | 446 mm |
| Width | 242 mm |
| Height | 274 mm |
| Net weight | 9 Kg |
| Printing method | Thermotransfer |
| Printer driver / Operating system | Windows 7, Windows 8, Windows 8.1, Windows 10 |
| Printing speed | 125 mm/s |
| Print quality | 300 |
| Marker type | Label reel, Shrink sleeves |
| Interface | LAN, USB |
| Supply voltage | 100...240 V AC |
| Software | M-Print® PRO |
| Note | |

Ordering data

| Type | Qty. | Order No. |
|-------------|------|------------|
| THM PLUS M | 1 | 2448870000 |
| Note | | |

Accessories

| Printer ribbons | Type | Qty. | Order No. |
|--------------------------|-------------------------|------|------------|
| Label, wide, black | RIBBON MM 110/360 SW | 1 | 2005070000 |
| Label, narrow, black | RIBBON MM 80/360 SW | 1 | 2005080000 |
| Label, narrow, white | RIBBON MM 80/300 WS | 1 | 2005040000 |
| Shrink sleeve, endless | RIBBON HSS HF EL 40/300 | 1 | 1426210000 |
| Shrink sleeve, assembled | RIBBON MM-HS 60/300 SW | 1 | 2448880000 |
| Note | | | |

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



Infrastructure



Benefit from optimum support when using our new products

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| ZEW 35/2 | 8630740000 | T.56 | ZDV 2.5N/10 | 1527690000 | T.23 | ZDV 4N/10 | 1528090000 | T.9 | ZDV 4N/50 RD | 2460730000 | T.72 |
| ZEW 35/2 | 8630740000 | T.57 | ZDV 2.5N/10 | 1527690000 | T.24 | ZDV 4N/10 | 1528090000 | T.22 | ZDV 4N/50 RD | 2460730000 | T.73 |
| ZEW 35/2 | 8630740000 | T.58 | ZDV 2.5N/10 | 1527690000 | T.25 | ZDV 4N/10 | 1528090000 | T.26 | ZDV 4N/50 RD | 2460730000 | T.80 |
| ZEW 35/2 | 8630740000 | T.60 | ZDV 2.5N/10 | 1527690000 | T.25 | ZDV 4N/10 | 1528090000 | T.34 | ZDV 4N/50 RD | 2460730000 | T.81 |
| ZEW 35/2 | 8630740000 | T.60 | ZDV 2.5N/10 | 1527690000 | T.25 | ZDV 4N/10 | 1528090000 | T.83 | ZDV 4N/50 RD | 2460730000 | T.82 |
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| ZDV 1.5N/10 BL | 1985680000 | T.34 | ZDV 2.5N/10 | 1527690000 | T.30 | ZDV 4N/10 BL | 1528230000 | T.60 | ZDV 4N/6 RD | 2460780000 | T.83 |
| ZDV 1.5N/10 BL | 1985680000 | T.46 | ZDV 2.5N/10 | 1527690000 | T.31 | ZDV 4N/10 BL | 1528230000 | T.61 | ZDV 4N/7 | 1528020000 | T.34 |
| ZDV 1.5N/10 BL | 1985680000 | T.46 | ZDV 2.5N/10 | 1527690000 | T.34 | ZDV 4N/10 BL | 1528230000 | T.83 | ZDV 4N/7 | 1528020000 | T.83 |
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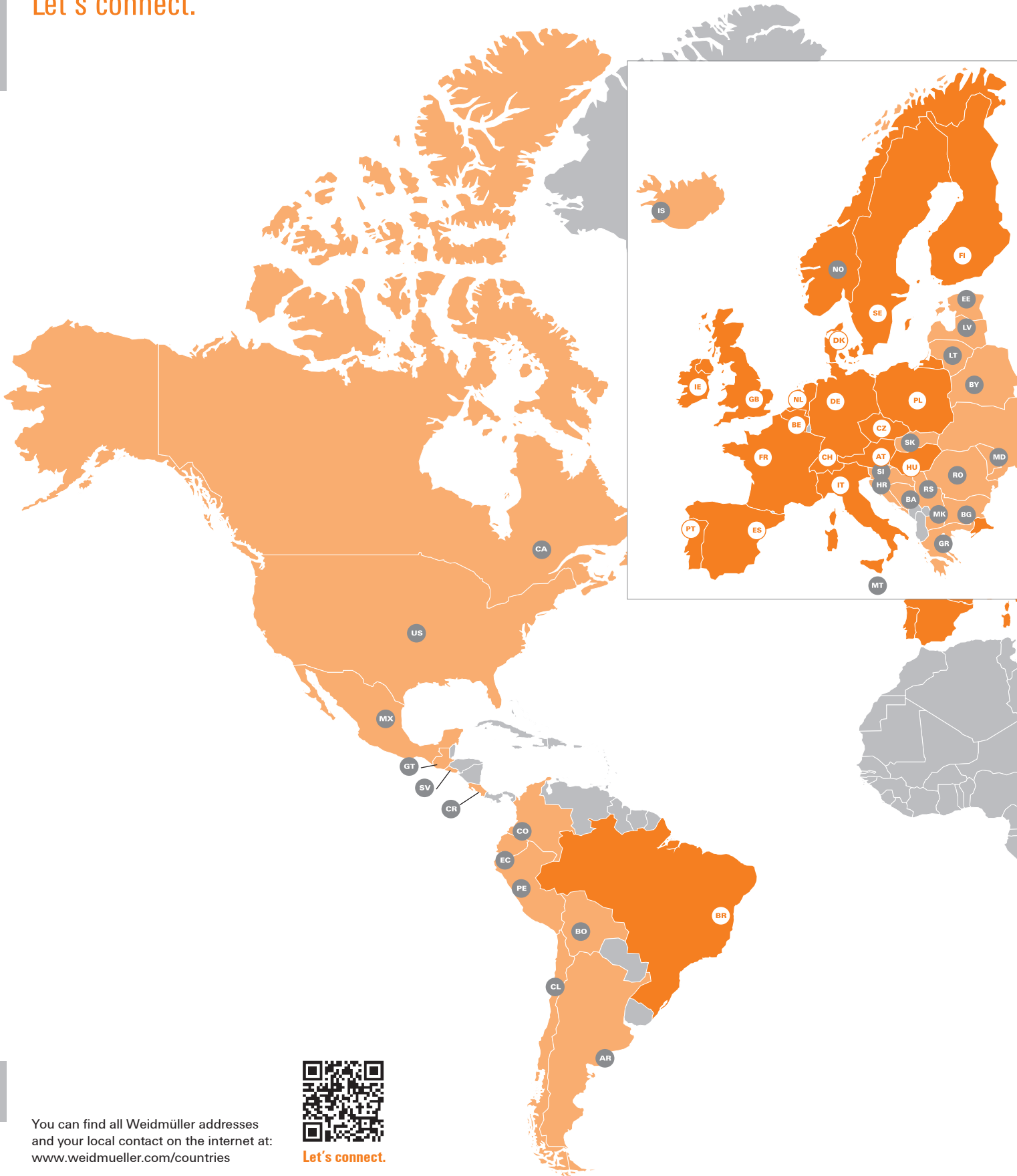
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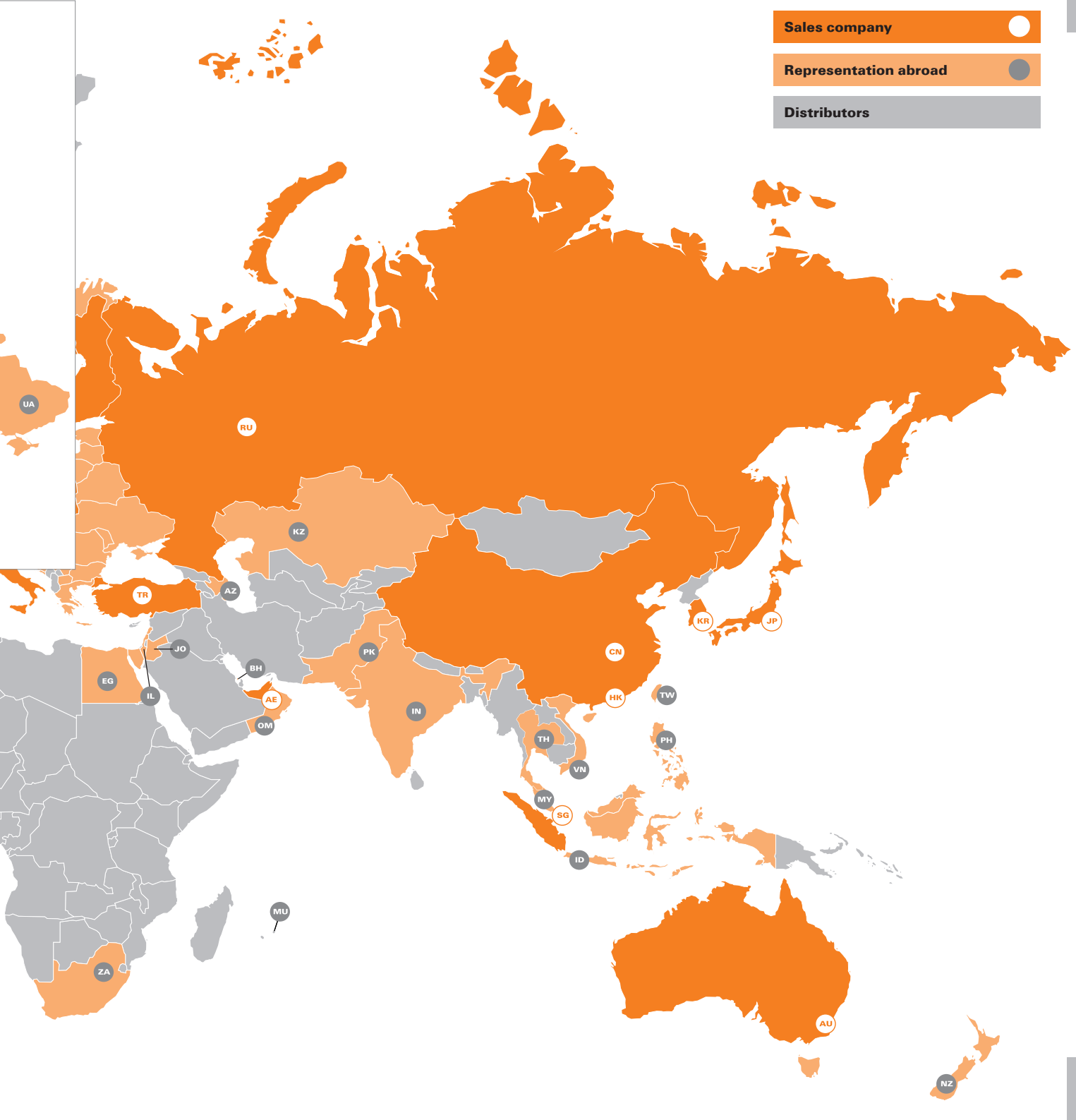


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