

**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 you 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**  
VARITECTOR 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



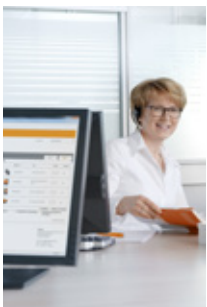


## Marking system



**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](http://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:  
[catalog.weidmueller.com](http://catalog.weidmueller.com)

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

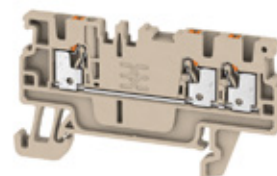
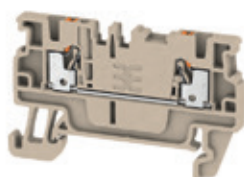
Infrastructure

**A2C 1.5**

1.5 mm<sup>2</sup>

**A3C 1.5**

1.5 mm<sup>2</sup>



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

3.5 x 55 x 45
<b>17.5 / 1.5</b>
<b>0.14...1.5</b>

3.5 x 61.5 x 45
<b>17.5 / 1.5</b>
<b>0.14...1.5</b>

**Technical data**

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

IEC 60947-7-1			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
500	300		
17.5	13		
1.5	AWG 26...14		
6 kV / 3			
A1 / V-0			
CE			
<b>Rated connection</b>			
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			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
500	300		
17.5	13		
1.5	AWG 26...14		
6 kV / 3			
A1 / V-0			
<b>Rated connection</b>			
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**

<b>Version</b>	
	dark beige
	blue
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A2C 1.5	100	1552790000
A2C 1.5 BL	100	1552820000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3C 1.5	50	1552740000
A3C 1.5 BL	50	1552770000

**Accessories**

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

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
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 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

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
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 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

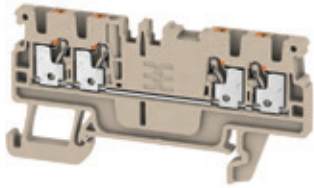
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**A4C 1.5**

**1.5 mm<sup>2</sup>**



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

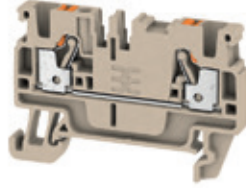
Type	Qty.	Order No.
A4C 1.5	100	1552690000
A4C 1.5 BL	100	1552700000

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 mm<sup>2</sup>**



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

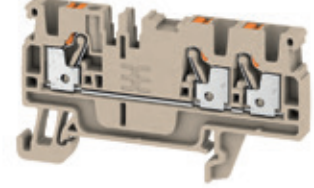
Type	Qty.	Order No.
A2C 2.5	100	1521850000
A2C 2.5 BL	100	1521880000

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 mm<sup>2</sup>**



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

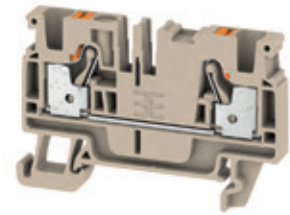
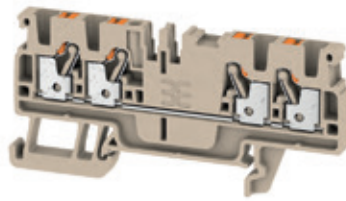
Infrastructure

**A4C 2.5**

**2.5 mm<sup>2</sup>**

**A2C 4**

**4 mm<sup>2</sup>**



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

5.1 x 77.5 x 36.5
<b>24 / 2.5</b>
<b>0.14...2.5</b>

6.1 x 60 x 39.5
<b>32 / 4</b>
<b>0.5...4</b>

**Technical data**

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

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 CB e-PA (R) M			
<b>Rated connection</b>			
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 CB e-PA (R) M			
<b>Rated connection</b>			
0.5...4 / 0.5...4			
0.5...4 / 0.5...4			
12 / 0.6 x 3.5 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	
	dark beige
	blue
<b>Note</b>	

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**

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

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
<b>End plate</b>			
AEP 4C 2.5		50	1521530000
AEP 4C 2.5 BL		50	1521640000
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
<b>Test adapter</b>			
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
<b>Test plug</b>			
PS 2.0 MC		20	0310000000
<b>Screwdriver</b>			
SDIL 0,6x3,5x100		1	9042110000
<b>Identification systems</b>			
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
<b>End plate</b>			
AEP 2C 4		50	2051680000
AEP 2C 4 BL		50	2051690000
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
<b>Test adapter</b>			
ATPG 1.5-10 L		50	1991890000
ATPG 4 MHR		50	1991860000
<b>Test plug</b>			
PS 2.0 MC		20	0310000000
<b>Screwdriver</b>			
SDIL 0,6x3,5x100		1	9042110000
<b>Identification systems</b>			
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

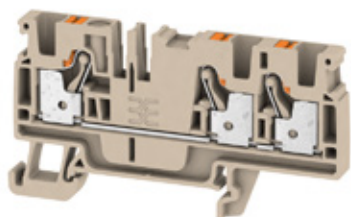
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**A3C 4**

**4 mm<sup>2</sup>**



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

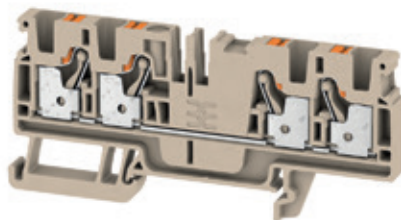
Type	Qty.	Order No.
A3C 4	50	2051240000
A3C 4 BL	50	2051280000

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 mm<sup>2</sup>**



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

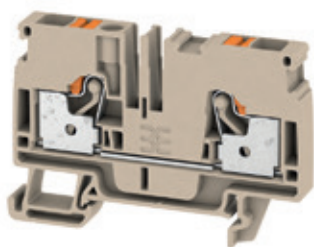
Transportation

Device Manufacturers

Infrastructure

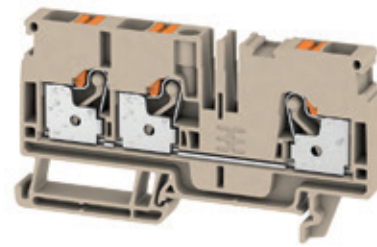
**A2C 6**

**6 mm<sup>2</sup>**



**A3C 6**

**6 mm<sup>2</sup>**



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

8.1 x 66.5 x 45.5
<b>41 / 6</b>
<b>0.5...6</b>

8.1 x 84.5 x 45.5
<b>41 / 6</b>
<b>0.5...6</b>

**Technical data**

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

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

**Ordering data**

<b>Version</b>	
	dark beige
	blue
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A2C 6	50	<b>1992110000</b>
A2C 6 BL	50	<b>1991790000</b>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A3C 6	50	<b>1991820000</b>
A3C 6 BL	50	<b>1991830000</b>

**Accessories**

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

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

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

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 mm<sup>2</sup>



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

9 x 77 x 45.5
<b>41 / 6</b>
<b>0.5...6</b>



**Technical data**

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

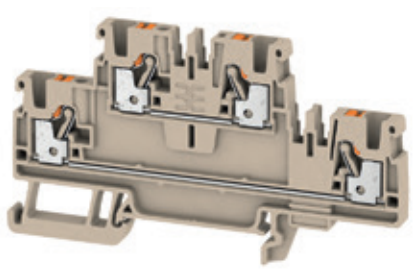
Transportation

Device Manufacturers

Infrastructure

**A2T 2.5**

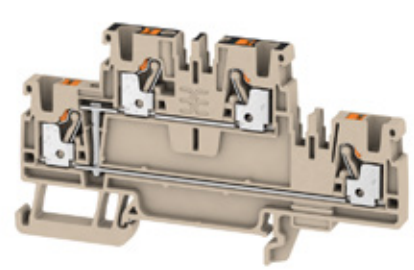
**2.5 mm<sup>2</sup>**



5.1 x 90 x 50.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

**A2T 2.5 VL**

**2.5 mm<sup>2</sup>**



5.1 x 90 x 50.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

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

**Technical data**

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

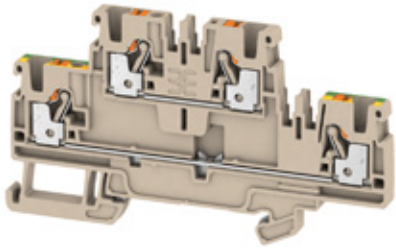
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

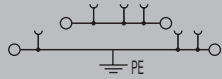


**A2T 2.5 FT-PE**

**2.5 mm<sup>2</sup>**



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

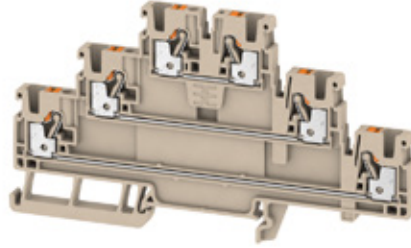
Type	Qty.	Order No.
A2T 2.5 FT-PE	50	<b>1547640000</b>

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

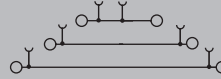
All MultiMark variants (MM) = strip markers

**A3T 2.5**

**2.5 mm<sup>2</sup>**



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

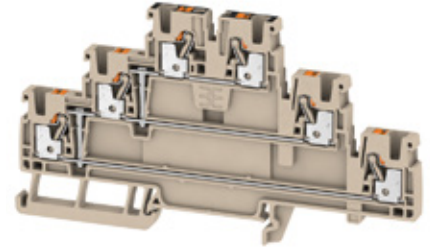
Type	Qty.	Order No.
A3T 2.5	50	<b>2428510000</b>
A3T 2.5 BL	50	<b>2428520000</b>

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

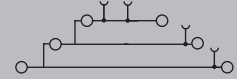
All MultiMark variants (MM) = strip markers

**A3T 2.5 VL**

**2.5 mm<sup>2</sup>**



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	<b>2428540000</b>
A3T 2.5 VL BL	25	<b>2428850000</b>

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure



Technical data

Machinery

Process

Energy

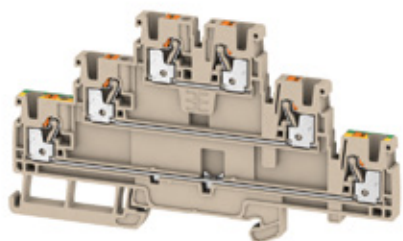
Transportation

Device Manufacturers

Infrastructure

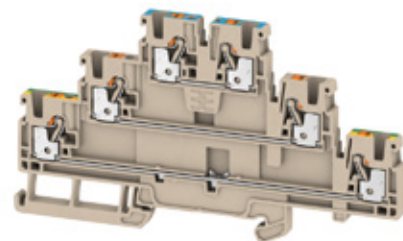
**A3T 2.5 FT-FT-PE**

**2.5 mm<sup>2</sup>**



**A3T 2.5 N-FT-PE**

**2.5 mm<sup>2</sup>**



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

5.1 x 116 x 64.5
<b>24 / 2.5</b>
<b>0.14...2.5</b>

5.1 x 116 x 64.5
<b>24 / 2.5</b>
<b>0.14...2.5</b>

**Technical data**

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

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	
<b>Rated connection</b>			
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	
<b>Rated connection</b>			
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**

<b>Version</b>	
	dark beige blue
<b>Note</b>	

Type	Qty.	Order No.
A3T 2.5 FT-FT-PE	50	<b>2428530000</b>

Type	Qty.	Order No.
A3T 2.5 N-FT-PE	50	<b>2428840000</b>

**Accessories**

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

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

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

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

All MultiMark variants (MM) = strip markers

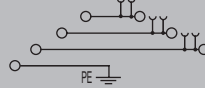
All MultiMark variants (MM) = strip markers

**AMC 2.5**

**2.5 mm<sup>2</sup>**



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



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

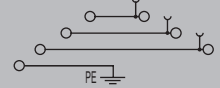
IEC	UL	CSA	EN 60079-7
690			
21			
2.5			
		8 kV / 3	
		A3 / V-0	
Rated connection			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
Approval in progress			

**AMC 2.5 800 V**

**2.5 mm<sup>2</sup>**



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<sup>2</sup>  
 Max. clamping range mm<sup>2</sup>

**Technical data**

Rated data	
Rated voltage	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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	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	Qty.	Order No.
AMC 2.5 800V	50	2434370000

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

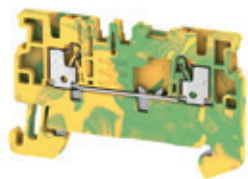
Transportation

Device Manufacturers

Infrastructure

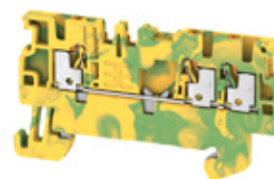
**A2C 1.5 PE**

**1.5 mm<sup>2</sup>**



**A3C 1.5 PE**

**1.5 mm<sup>2</sup>**



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

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**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
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	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

IEC 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1.5	AWG 26...14		
500			
6			
180 A (1.5 mm <sup>2</sup> )			
3			
A1 / V-0			
<b>Rated connection</b>			
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			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
1.5	AWG 26...14		
500			
6			
180 A (1.5 mm <sup>2</sup> )			
3			
A1 / V-0			
<b>Rated connection</b>			
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**

<b>Version</b>	green/yellow
<b>Note</b>	

Type	Qty.	Order No.
A2C 1.5 PE	50	1552680000

Type	Qty.	Order No.
A3C 1.5 PE	50	1552670000

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole stackable
	3-pole
	5-pole
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

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

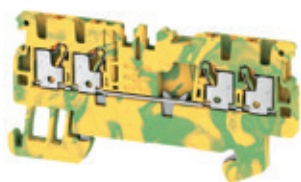
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

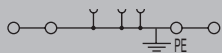
All MultiMark variants (MM) = strip markers

**A4C 1.5 PE**

**1.5 mm<sup>2</sup>**



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 <sup>2</sup> )		
	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

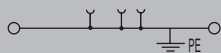
All MultiMark variants (MM) = strip markers

**A2C 2.5 PE**

**2.5 mm<sup>2</sup>**



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 <sup>2</sup> )		
	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

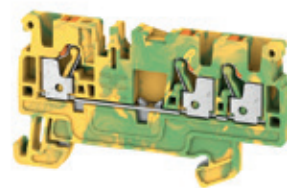
Type	Qty.	Order No.
A2C 2.5 PE	50	1521680000

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

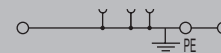
All MultiMark variants (MM) = strip markers

**A3C 2.5 PE**

**2.5 mm<sup>2</sup>**



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 <sup>2</sup> )		
	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

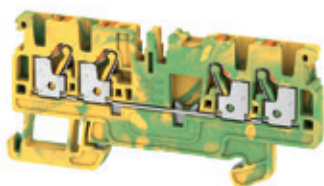
Transportation

Device Manufacturers

Infrastructure

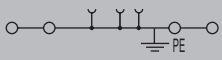
**A4C 2.5 PE**

**2.5 mm<sup>2</sup>**



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

5.1 x 77.5 x 36.5
<b>/ 2.5</b>
<b>0.14...2.5</b>



**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
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			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
2.5	AWG 28...12	AWG 28...12	
800			
8			
	300 A (2.5 mm <sup>2</sup> )		
	3		
	A3 / V-0		

<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-

<b>Rated connection</b>	
0.5...2.5 / 0.5...2.5	
0.5...2.5 / 0.5...2.5	
10 / 0.6 x 3.5 mm	

<b>Note</b>
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Approval in progress
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**Ordering data**

<b>Version</b>	green/yellow
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A4C 2.5 PE	50	<b>1521540000</b>

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole stackable 3-pole 5-pole
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

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

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

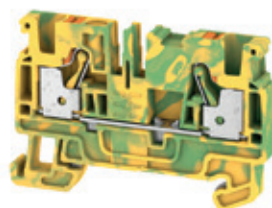
All MultiMark variants (MM) = strip markers

**A2C 4 PE**

**4 mm<sup>2</sup>**

**A3C 4 PE**

**4 mm<sup>2</sup>**



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

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

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

**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
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	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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 <sup>2</sup> )		
	3		
	A4 / V-0		

CE

<b>Rated connection</b>			
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 <sup>2</sup> )		
	3		
	A4 / V-0		

CE

<b>Rated connection</b>			
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**

<b>Version</b>	green/yellow
<b>Note</b>	

Type	Qty.	Order No.
A2C 4 PE	50	2051360000

Type	Qty.	Order No.
A3C 4 PE	50	2051410000

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

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 M-R		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 M-R		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

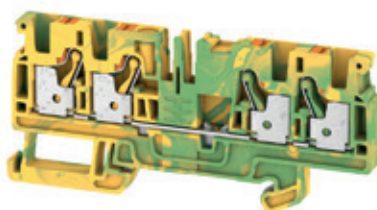
Transportation

Device Manufacturers

Infrastructure

**A4C 4 PE**

**4 mm<sup>2</sup>**



**A2C 6 PE**

**6 mm<sup>2</sup>**



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

6.1 x 87.5 x 39.5	
/ 4	
<b>0.5...4</b>	

8.1 x 66.5 x 45.5	
/ 6	
<b>0.5...6</b>	

**Technical data**

<b>Rated data</b>	
for wire cross-section	mm <sup>2</sup>
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	
<b>Clamped conductors (H05V/H07V)</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length / Blade size	mm/-
<b>Note</b>	

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

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

**Ordering data**

<b>Version</b>	green/yellow
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A4C 4 PE	50	<b>2051560000</b>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
A2C 6 PE	50	<b>1991810000</b>

**Accessories**

<b>End plate</b>	dark beige
<b>End bracket</b>	dark beige
<b>Test adapter</b>	1-pole stackable
<b>Test plug</b>	
<b>Screwdriver</b>	Standard
<b>Identification systems</b>	

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

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

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

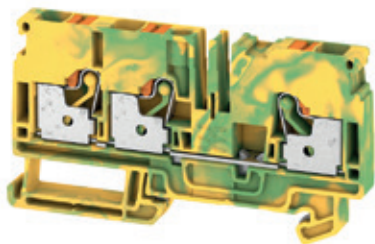
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

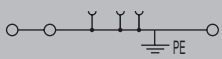


**A3C 6 PE**

**6 mm<sup>2</sup>**



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 <sup>2</sup> )		
	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

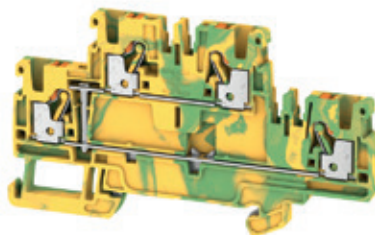
Type	Qty.	Order No.
A3C 6 PE	50	1991850000

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 MI-R		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

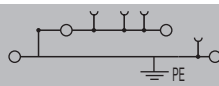
All MultiMark variants (MM) = strip markers

**A2T 2.5 PE**

**2.5 mm<sup>2</sup>**



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 <sup>2</sup> )		
	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

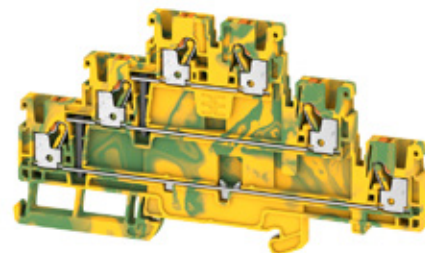
Type	Qty.	Order No.
A2T 2.5 PE	50	1547680000

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 MI-R		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

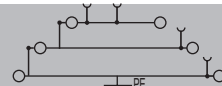
All MultiMark variants (MM) = strip markers

**A3T 2.5 PE**

**2.5 mm<sup>2</sup>**



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 <sup>2</sup> )		
	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 MI-R		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

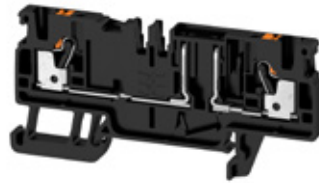
Infrastructure

**AFS 2.5 CF 2C**

**2.5 mm<sup>2</sup>**

**AFS 4 2C**

**4 mm<sup>2</sup>**



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

5.1 x 77.5 x 36.5
<b>10 / 2.5</b>
<b>2.5...2.5</b>

6.1 x 80 x 69
<b>6.3 / 4</b>
<b>0.5...4</b>



**Technical data**

Rated data	
Rated voltage to adjoining terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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	<b>2466530000</b>
AFS 2.5 CF 2C 12V BK	50	<b>2466610000</b>
AFS 2.5 CF 2C 24V BK	50	<b>2466600000</b>
Note		

Type	Qty.	Order No.
AFS 4 2C BK	50	<b>2429860000</b>
AFS 4 2C 10-36V BK	50	<b>2429870000</b>
AFS 4 2C 30-70V BK	50	<b>2434350000</b>
AFS 4 2C 60-150V BK	50	<b>2434380000</b>
AFS 4 2C 100-250V BK	50	<b>2434390000</b>
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	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
End plate			
AEP 4C 2.5 BK		50	<b>2486660000</b>
Test plug			
PS 2.0 MC		20	<b>0310000000</b>
Screwdriver			
SDIL 0,6x3,5x100		1	<b>9042110000</b>
Identification systems			
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>

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

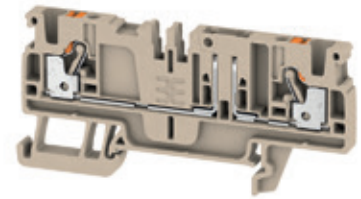
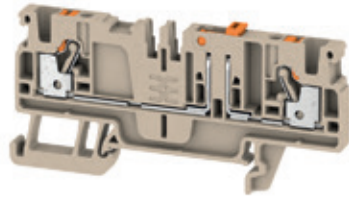
For detailed information on other accessories and application in the online catalogue

**ADT 2.5 2C**

**2.5 mm<sup>2</sup>**

**ADT 2.5 2C W/O DTLV**

**2.5 mm<sup>2</sup>**



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

5.1 x 77.5 x 37.65	
<b>20 / 2.5</b>	
<b>0.14...2.5</b>	

5.1 x 77.5 x 36.5	
<b>20 / 2.5</b>	
<b>0.14...2.5</b>	

**Technical data**

Rated data	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
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 <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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	<b>1989800000</b>
ADT 2.5 2C BL	50	<b>1989810000</b>

Type	Qty.	Order No.
ADT 2.5 2C W/O DTLV	50	<b>1989930000</b>

**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	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
End plate			
AEP 4C 2.5		50	<b>1521530000</b>
AEP 4C 2.5 BL		50	<b>1521640000</b>
End bracket			
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
Test adapter			
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 2.5 MHR		50	<b>1991960000</b>
ATPG 2.5/3		25	<b>2041190000</b>
ATPG 2.5/5		25	<b>2041180000</b>
Test plug			
PS 2.0 MC		20	<b>0310000000</b>
Screwdriver			
SDIL 0,6x3,5x100		1	<b>9042110000</b>
Identification systems			
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>

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

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

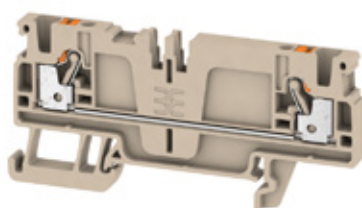
Transportation

Device Manufacturers

Infrastructure

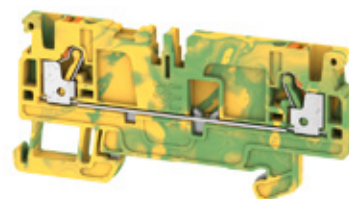
**A2C 2.5 /DT/FS**

**2.5 mm<sup>2</sup>**



**A2C 2.5 PE /DT/FS**

**2.5 mm<sup>2</sup>**



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

5.1 x 77.5 x 36.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

5.1 x 77.5 x 36.5	
<b>/ 2.5</b>	
<b>0.14...2.5</b>	

**Technical data**

Rated data	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
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 <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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	<b>1989900000</b>
A2C 2.5 /DT/FS BL	100	<b>1989910000</b>

Type	Qty.	Order No.
A2C 2.5 PE /DT/FS	50	<b>1989890000</b>

**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	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
End plate			
AEP 4C 2.5		50	<b>1521530000</b>
AEP 4C 2.5 BL		50	<b>1521640000</b>
End bracket			
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
Test adapter			
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 2.5 MHR		50	<b>1991960000</b>
ATPG 2.5/3		25	<b>2041190000</b>
ATPG 2.5/5		25	<b>2041180000</b>
Test plug			
PS 2.0 MC		20	<b>0310000000</b>
Screwdriver			
SDIL 0,6x3,5x100		1	<b>9042110000</b>
Identification systems			
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>

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

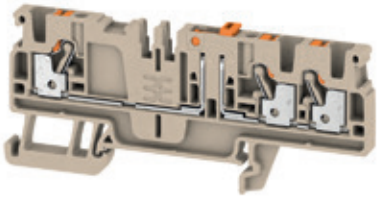
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

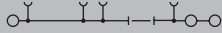
All MultiMark variants (MM) = strip markers

**ADT 2.5 3C**

**2.5 mm<sup>2</sup>**



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	<b>1989830000</b>
ADT 2.5 3C BL	50	<b>1989840000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>

AEP DT 2.5 3C	50	<b>1989970000</b>
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AEB 35 SC/1	50	<b>1991920000</b>
ZEW 35	20	<b>9540000000</b>

ATPG 1.5-10 L	50	<b>1991890000</b>
ATPG 2.5 MI-R	50	<b>1991960000</b>
ATPG 2.5/3	25	<b>2041190000</b>
ATPG 2.5/5	25	<b>2041180000</b>

PS 2.0 MC	20	<b>0310000000</b>
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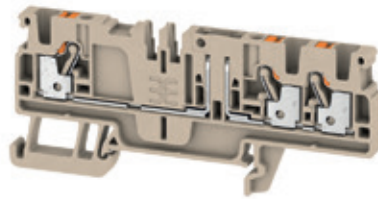
SDIL 0,6x3,5x100	1	<b>9042110000</b>
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DEK 5/5 PLUS MC NE WS	1000	<b>1854490000</b>
DEK 5/5 MM WS	800	<b>2007110000</b>
WS 8/5 MM WS	800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS	600	<b>2003770000</b>

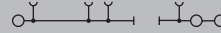
All MultiMark variants (MM) = strip markers

**ADT 2.5 3C W/O DTLV**

**2.5 mm<sup>2</sup>**



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	<b>1989940000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>

AEP DT 2.5 3C	50	<b>1989970000</b>
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AEB 35 SC/1	50	<b>1991920000</b>
ZEW 35	20	<b>9540000000</b>

ATPG 1.5-10 L	50	<b>1991890000</b>
ATPG 2.5 MI-R	50	<b>1991960000</b>
ATPG 2.5/3	25	<b>2041190000</b>
ATPG 2.5/5	25	<b>2041180000</b>

PS 2.0 MC	20	<b>0310000000</b>
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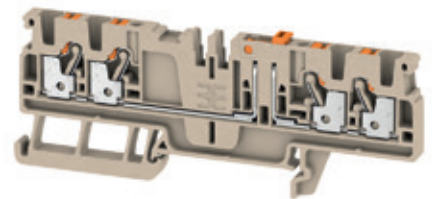
SDIL 0,6x3,5x100	1	<b>9042110000</b>
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DEK 5/5 PLUS MC NE WS	1000	<b>1854490000</b>
DEK 5/5 MM WS	800	<b>2007110000</b>
WS 8/5 MM WS	800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS	600	<b>2003770000</b>

All MultiMark variants (MM) = strip markers

**ADT 2.5 4C**

**2.5 mm<sup>2</sup>**



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	<b>1989860000</b>
ADT 2.5 4C BL	50	<b>1989870000</b>

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>

AEP DT 2.5 4C	50	<b>1989980000</b>
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AEB 35 SC/1	50	<b>1991920000</b>
ZEW 35	20	<b>9540000000</b>

ATPG 1.5-10 L	50	<b>1991890000</b>
ATPG 2.5 MI-R	50	<b>1991960000</b>
ATPG 2.5/3	25	<b>2041190000</b>
ATPG 2.5/5	25	<b>2041180000</b>

PS 2.0 MC	20	<b>0310000000</b>
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SDIL 0,6x3,5x100	1	<b>9042110000</b>
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DEK 5/5 PLUS MC NE WS	1000	<b>1854490000</b>
DEK 5/5 MM WS	800	<b>2007110000</b>
WS 8/5 MM WS	800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS	600	<b>2003770000</b>

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

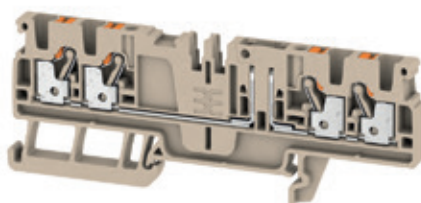
Transportation

Device Manufacturers

Infrastructure

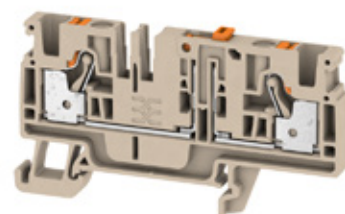
**ADT 2.5 4C W/O DTLV**

**2.5 mm<sup>2</sup>**



**ADT 4 2C**

**4 mm<sup>2</sup>**



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

5.1 x 96 x 36.5	
<b>20 / 2.5</b>	
<b>0.14...2.5</b>	

6.1 x 71.9 x 41.7	
<b>20 / 4</b>	
<b>0.5...4</b>	

**Technical data**

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

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

<b>Rated connection</b>			
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			

<b>Rated connection</b>			
0.5...4 / 0.5...4			
0.5...4 / 0.5...4			
10 / 0.6 x 3.5 mm			

Approval in progress

**Ordering data**

<b>Version</b>	dark beige blue without isolator
<b>Note</b>	

Type	Qty.	Order No.
ADT 2.5 4C W/O DTLV	50	<b>1989950000</b>

Type	Qty.	Order No.
ADT 4 2C	50	<b>2429850000</b>
ADT 4 2C BL	50	<b>2429880000</b>

**Accessories**

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

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	<b>1527540000</b>
ZQV 2.5N/10	24 A	20	<b>1527690000</b>
AEP DT 2.5 4C		50	<b>1989980000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35		20	<b>9540000000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
ATPG 2.5 MHR		50	<b>1991960000</b>
ATPG 2.5/3		25	<b>2041190000</b>
ATPG 2.5/5		25	<b>2041180000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 0,6x3,5x100		1	<b>9042110000</b>
DEK 5/5 PLUS MC NE WS		1000	<b>1854490000</b>
DEK 5/5 MM WS		800	<b>2007110000</b>
WS 8/5 MM WS		800	<b>2007150000</b>
WS 10/5 M PLUS MC NE WS		600	<b>2003770000</b>

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

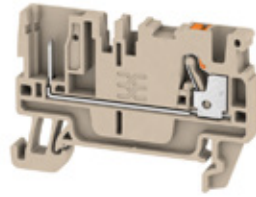
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**APGTB 2.5 FT 2C/1**

**2.5 mm<sup>2</sup>**



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			



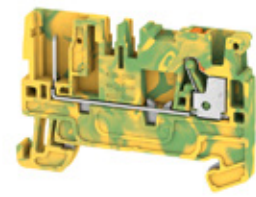
**Rated connection**

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

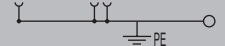
Approval in progress

**APGTB 2.5 PE 2C/1**

**2.5 mm<sup>2</sup>**



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 <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

**Technical data**

Rated data	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
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 <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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	
	dark beige

Test plug	

Screwdriver	
	Standard

Identification systems	

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
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SDIL 0,6x3,5x100	1	9042110000
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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
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SDIL 0,6x3,5x100	1	9042110000
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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

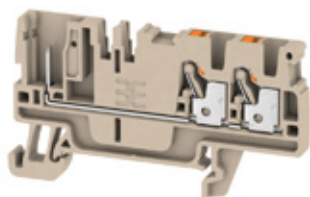
Transportation

Device Manufacturers

Infrastructure

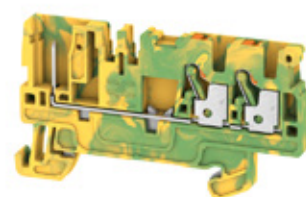
**APGTB 2.5 FT 3C/1**

**2.5 mm<sup>2</sup>**



**APGTB 2.5 PE 3C/1**

**2.5 mm<sup>2</sup>**



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

5.1 x 66.5 x 36.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

5.1 x 66.5 x 36.5	
<b>/ 2.5</b>	
<b>0.14...2.5</b>	

**Technical data**

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

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**

<b>Version</b>	
	dark beige
	blue
	green/yellow
<b>Note</b>	

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**

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

Type	current	Qty.	Order No.
ZQV 2.5N/2	24 A	60	1527540000
ZQV 2.5N/10	24 A	20	1527690000
<b>End plate</b>			
AEP 3C 2.5		50	1521510000
AEP 3C 2.5 BL		50	1521520000
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
<b>Plug</b>			
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
<b>Test plug</b>			
<b>Screwdriver</b>			
SDIL 0,6x3,5x100		1	9042110000
<b>Identification systems</b>			
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
<b>End bracket</b>			
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
<b>Plug</b>			
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
<b>Test plug</b>			
<b>Screwdriver</b>			
SDIL 0,6x3,5x100		1	9042110000
<b>Identification systems</b>			
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

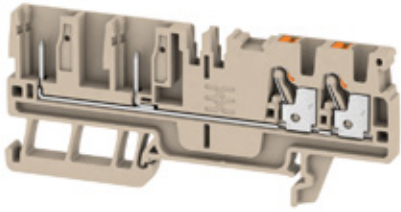
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers



APGTB 2.5 FT 4C/2

2.5 mm<sup>2</sup>



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

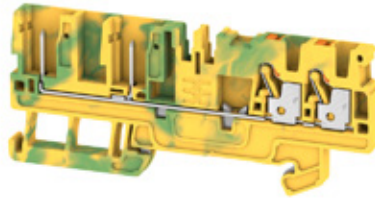
Type	Qty.	Order No.
APGTB 2.5 FT 4C/2	50	1514030000
APGTB 2.5 FT 4C/2 BL	50	1514040000

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 mm<sup>2</sup>



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

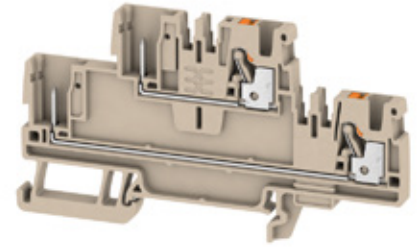
Type	Qty.	Order No.
APGTB 2.5 PE 4C/2	50	1513920000

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

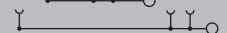
All MultiMark variants (MM) = strip markers

APGTB 2.5 2T 4C/2

2.5 mm<sup>2</sup>



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

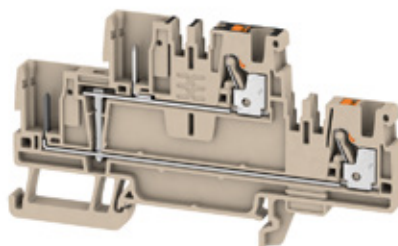
Transportation

Device Manufacturers

Infrastructure

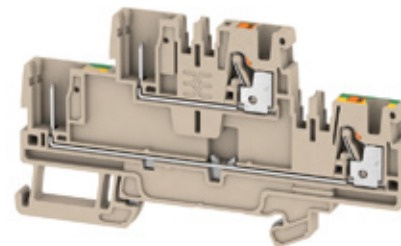
**APGTB 2.5 2T VL 4C/2**

**2.5 mm<sup>2</sup>**



**APGTB 2.5 2T FT-PE 4C/2**

**2.5 mm<sup>2</sup>**



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

5.1 x 91 x 50.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

5.1 x 91 x 50.5	
<b>24 / 2.5</b>	
<b>0.14...2.5</b>	

**Technical data**

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

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**

<b>Version</b>	dark beige
	blue
	green/yellow
<b>Note</b>	

Type	Qty.	Order No.
APGTB 2.5 2T VL 4C/2	50	<b>1548140000</b>
APGTB 2.5 2T VL 4C/2 BL	50	<b>1548150000</b>

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

**Accessories**

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

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

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

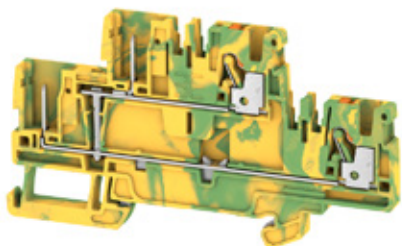
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

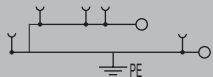
All MultiMark variants (MM) = strip markers

APGTB 2.5 2T PE 4C/2

2.5 mm<sup>2</sup>



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 mm<sup>2</sup>



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

5.1 x 16.5 x 42.5
<b>24 / 2.5</b>
<b>0.14...2.5</b>

Technical data

Rated data	
Rated voltage	V
Max. voltage of clamp support & pluggable system	-
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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](http://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

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

Cross-connections according to dimensions

ZQV 1.5N



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	

ZQV 2.5N



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	

ZQV 4N



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.

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

### 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 mm<sup>2</sup> up to 1.5 mm<sup>2</sup> 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 <sup>2</sup>
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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 mm<sup>2</sup> up to 1.5 mm<sup>2</sup> 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 <sup>2</sup>
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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



Device  
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

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Transportation

Device Manufacturers

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

IEC 60947-7-1, UL 1059, CSA

	top	mid./left	mid./mid.	mid./right	bottom
Number of connections			1		
Solid			6...10mm <sup>2</sup>		
Stranded			10...50mm <sup>2</sup>		
Flexible with ferrule			4...35mm <sup>2</sup>		
Ribbon cable					
Torque			10Nm		
Clamping screw			M 10		
Stripping length			16mm		
Outputs					
Number of connections			1		
Solid			6...10mm <sup>2</sup>		
Stranded			10...50mm <sup>2</sup>		
Flexible with ferrule			4...35mm <sup>2</sup>		
Torque			10Nm		
Clamping screw			M 10		
Stripping length			16mm		
Poles			1		
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			

IEC 60947-7-1, UL 1059, CSA

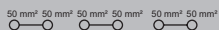
	top	mid./left	mid./mid.	mid./right	bottom
Number of connections			2		
Solid			6...10mm <sup>2</sup>		
Stranded			10...50mm <sup>2</sup>		
Flexible with ferrule			4...35mm <sup>2</sup>		
Ribbon cable					
Torque			10Nm		
Clamping screw			M 10		
Stripping length			16mm		
Outputs					
Number of connections			2		
Solid			6...10mm <sup>2</sup>		
Stranded			10...50mm <sup>2</sup>		
Flexible with ferrule			4...35mm <sup>2</sup>		
Torque			10Nm		
Clamping screw			M 10		
Stripping length			16mm		
Poles			2		
Note			Rated current with Cu conductors: 150 A		

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
Note		

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 <sup>2</sup>		
		10...50mm <sup>2</sup>		
		4...35mm <sup>2</sup>		
		10Nm		
		M 10		
		16mm		
top	mid./left	mid./mid.	mid./right	bottom
		2		
		6...10mm <sup>2</sup>		
		10...50mm <sup>2</sup>		
		4...35mm <sup>2</sup>		
		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  
 Process  
 Energy  
 Transportation  
 Device Manufacturers  
 Infrastructure

Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

Infrastructure

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

<b>Inputs</b>	
Number of connections	
Solid	
Stranded	
Flexible with ferrule	
Ribbon cable	
Torque	
Clamping screw	
Stripping length	
<b>Outputs</b>	
Number of connections	
Solid	
Stranded	
Flexible with ferrule	
Torque	
Clamping screw	
Stripping length	
Poles	
<b>Note</b>	

IEC 60947-7-1, UL 1059, CSA

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

Ordering data

Version	
grey	
blue	
brown	
green	
black	
<b>Note</b>	

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



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

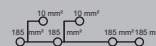
	top	mid./left	mid./mid.	mid./right	bottom
Number of connections			1		
Solid			95...185mm²		
Stranded			95...185mm²		
Flexible with ferrule			70...150mm²		
Torque			25Nm		
Clamping screw			M 18		
Stripping length			29mm		
	top	mid./left	mid./mid.	mid./right	bottom
Number of connections	1		1		
Solid	1.5...10mm²		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

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



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		
	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



Technical data

Machinery

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Transportation

Device  
Manufacturers

Infrastructure

### WPD 133

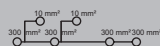


### WPD 233



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...300mm <sup>2</sup>		
Stranded			150...300mm <sup>2</sup>		
Flexible with ferrule			120...240mm <sup>2</sup>		
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...10mm <sup>2</sup>		150...300mm <sup>2</sup>		
Stranded	1.5...10mm <sup>2</sup>		150...300mm <sup>2</sup>		
Flexible with ferrule	1.5...6mm <sup>2</sup>		120...240mm <sup>2</sup>		
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...300mm <sup>2</sup>		
Stranded			150...300mm <sup>2</sup>		
Flexible with ferrule			120...240mm <sup>2</sup>		
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...10mm <sup>2</sup>		150...300mm <sup>2</sup>		
Stranded	1.5...10mm <sup>2</sup>		150...300mm <sup>2</sup>		
Flexible with ferrule	1.5...6mm <sup>2</sup>		120...240mm <sup>2</sup>		
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

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Device Manufacturers

Infrastructure

**AMC 2.5**

**2.5 mm<sup>2</sup>**



**AMC 2.5 800 V**

**2.5 mm<sup>2</sup>**



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

5.1 x 107 x 88.5
<b>21 / 2.5</b>
<b>0.14...2.5</b>

6.1 x 107 x 88.5
<b>21 / 2.5</b>
<b>0.14...2.5</b>

**Technical data**

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

DIN EN 60947-7-1, DIN EN 60947-7-2			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
690			
21			
2.5			
	8 kV / 3		
	A3 / V-0		
<b>Rated connection</b>			
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			
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
800			
21			
2.5			
	8 kV / 3		
	A3 / V-0		
<b>Rated connection</b>			
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**

<b>Version</b>	dark beige
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMC 2.5	50	2434340000

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMC 2.5 800V	50	2434370000

**Accessories**

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

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
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

<b>Type</b>	<b>current</b>	<b>Qty.</b>	<b>Order No.</b>
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

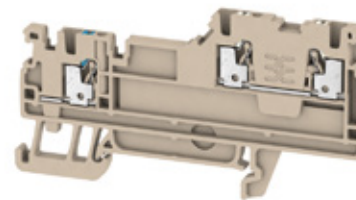
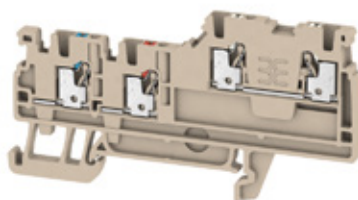
AIO - sensor-actuator terminal blocks

AI021 1.5 SI

1.5 mm<sup>2</sup>

AI021 1.5 SO

1.5 mm<sup>2</sup>



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

3.5 x 80 x 42	
<b>13.5 / 1.5</b>	
<b>0.14...1.5</b>	

3.5 x 80 x 42	
<b>13.5 / 1.5</b>	
<b>0.14...1.5</b>	

Technical data

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

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
<b>Note</b>

Type	Qty.	Order No.
AI021 1.5 SI	100	1992260000
<b>Note</b>		

Type	Qty.	Order No.
AI021 1.5 SO	100	1992240000
<b>Note</b>		

Accessories

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

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 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

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

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

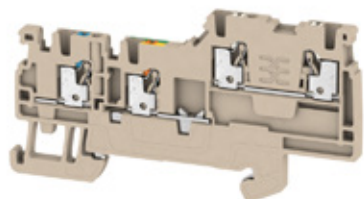
Transportation

Device Manufacturers

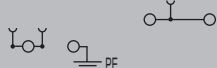
Infrastructure

**AI021 1.5 SO-PE**

**1.5 mm<sup>2</sup>**



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

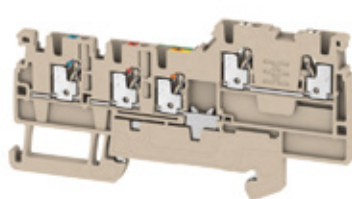
Type	Qty.	Order No.
AI021 1.5 SO-PE	100	<b>1992250000</b>

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

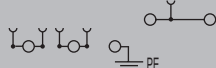
All MultiMark variants (MM) = strip markers

**AI022 1.5 SI-PE**

**1.5 mm<sup>2</sup>**



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

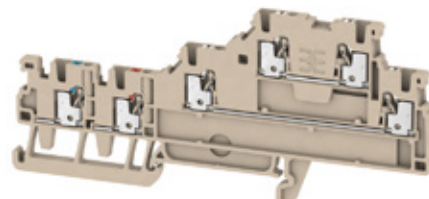
Type	Qty.	Order No.
AI022 1.5 SI-PE	100	<b>1992230000</b>

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

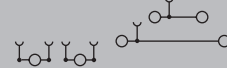
All MultiMark variants (MM) = strip markers

**AI023 1.5 2SI**

**1.5 mm<sup>2</sup>**



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	<b>1992220000</b>

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

All MultiMark variants (MM) = strip markers

**AAP - potential distribution terminal blocks**

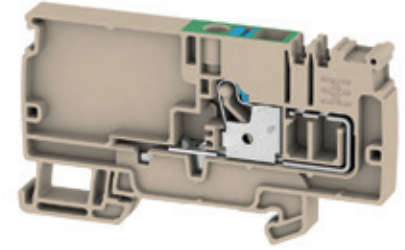
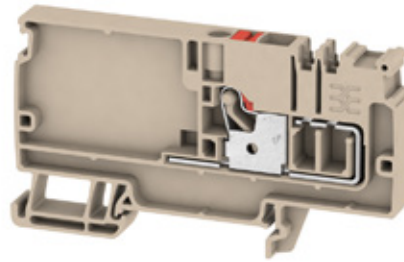
Potential distribution with separate fusing

**AAP11 6 LO**

**6 mm<sup>2</sup>**

**AAP11 6 FE**

**6 mm<sup>2</sup>**



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

8.1 x 85.5 x 48
<b>41 / 6</b>
<b>0.5...6</b>

8.1 x 85.5 x 48
<b>/ 6</b>
<b>0.5...6</b>

**Technical data**

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

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

<b>Rated connection</b>			
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

<b>Rated connection</b>			
0.5...6 / 0.5...6			
0.5...6 / 0.5...6			
12 / 1.0 x 5.5 mm			

Approval in progress

**Ordering data**

<b>Version</b>	
	beige Wemid / red pusher
	beige Wemid / blue pusher
	beige Wemid / orange pusher
	beige Wemid / red and blue pushers
<b>Note</b>	

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**

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

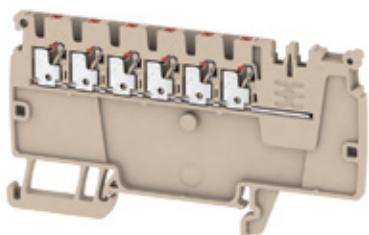
Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	1985650000
ZQV 1.5N/10 RD	17.5 A	20	1985800000
ZQV 1.5N/2 BL	17.5 A	60	1985530000
ZQV 1.5N/10 BL	17.5 A	20	1985680000
AEP AP11		20	1988320000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
PS 2.0 MC		20	0310000000
SDIL 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 mm<sup>2</sup>**


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

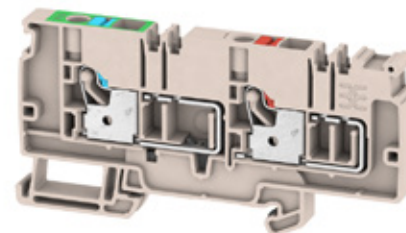
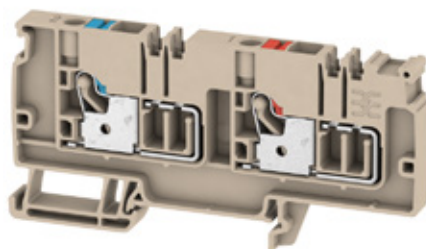
Potential distribution with separate fusing

#### AAP13 6 LO-LO

6 mm<sup>2</sup>

#### AAP13 6 FE-LO

6 mm<sup>2</sup>



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

8.1 x 96 x 48	
<b>41 / 6</b>	
<b>0.5...6</b>	

8.1 x 96 x 48	
<b>41 / 6</b>	
<b>0.5...6</b>	

#### Technical data

Rated data	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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			
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			
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	<b>1988260000</b>

Type	Qty.	Order No.
AAP13 6 FE-LO	20	<b>1988270000</b>

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	<b>1985650000</b>
ZQV 1.5N/10 RD	17.5 A	20	<b>1985800000</b>
ZQV 1.5N/2 BL	17.5 A	60	<b>1985530000</b>
ZQV 1.5N/10 BL	17.5 A	20	<b>1985680000</b>
AEP AP13		20	<b>1990140000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35/2		20	<b>8630740000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 1,0x5,5x125		1	<b>9042130000</b>
DEK-A 5/8 MM WS		500	<b>2448860000</b>
WS-A 8/8 MM WS		500	<b>2448930000</b>
DEK 5/8 PLUS MC NE WS		800	<b>1046350000</b>
WS 10/8 PLUS MC NE WS		420	<b>1905950000</b>

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

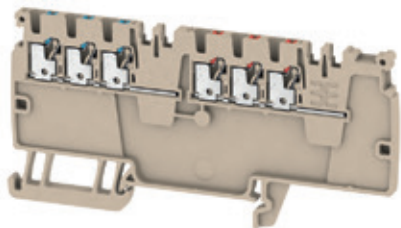
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

**AAP13 1.5 LI-LI**

**1.5 mm<sup>2</sup>**



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

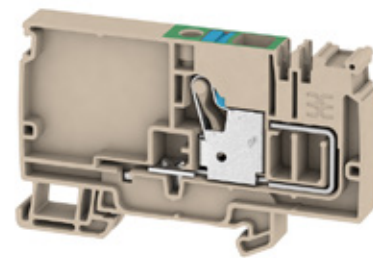
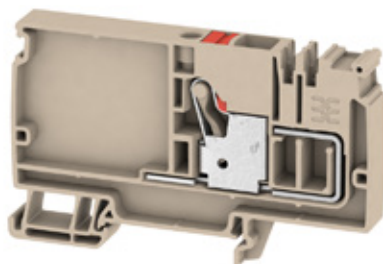
Potential distribution with separate fusing

#### AAP12 10 LO

10 mm<sup>2</sup>

#### AAP12 10 FE

10 mm<sup>2</sup>



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

10 x 89 x 54
<b>57 / 10</b>
<b>0.5...10</b>

10 x 89 x 54
<b>/ 10</b>
<b>0.5...10</b>

#### Technical data

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

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
<b>Note</b>	

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
<b>End plate / Partition plate</b>	
<b>End bracket</b>	
	dark beige
	dark beige
<b>Test adapter</b>	
	1-pole
<b>Test plug</b>	
<b>Screwdriver</b>	
	Standard
<b>Identification systems</b>	

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

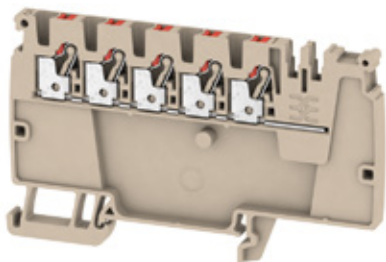
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers



**AAP12 2.5 LI**

**2.5 mm<sup>2</sup>**



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**

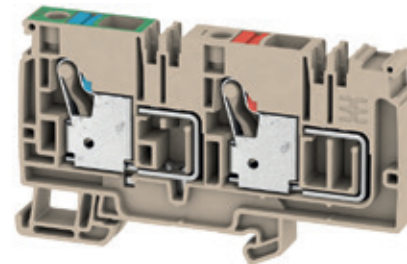
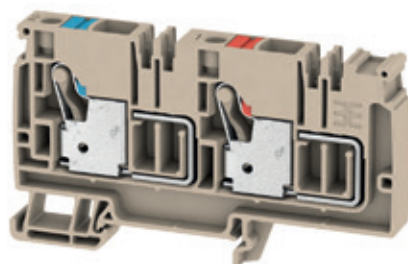
Potential distribution with separate fusing

**AAP14 10 LO-LO**

**10 mm<sup>2</sup>**

**AAP14 10 FE-LO**

**10 mm<sup>2</sup>**



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

10 x 94 x 54	
<b>57 / 10</b>	
<b>0.5...10</b>	

10 x 94 x 54	
<b>57 / 10</b>	
<b>0.5...10</b>	

**Technical data**

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

In accordance with IEC 60947-7-1

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
500	150		
57	51		
10	AWG 20...6		
6 kV / 3			
A6 / V-0			
<b>CE</b>			
<b>Rated connection</b>			
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

<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
500	150		
57	51		
10	AWG 20...6		
6 kV / 3			
A6 / V-0			
<b>CE</b>			
<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
Approval in progress			

**Ordering data**

<b>Version</b>	beige Wemid / red pusher beige Wemid / blue pusher beige Wemid / orange pusher beige Wemid / red and blue pushers
<b>Note</b>	

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AAP14 10 LO-LO	20	<b>1988250000</b>

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AAP14 10 FE-LO	20	<b>1988240000</b>
FE = functional earth, contact to terminal rail		

**Accessories**

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

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

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

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

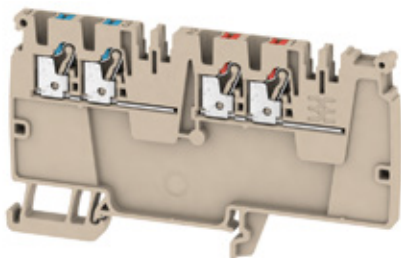
Transportation

Device Manufacturers

Infrastructure

**AAP14 2.5 LI-LI**

**2.5 mm<sup>2</sup>**



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**

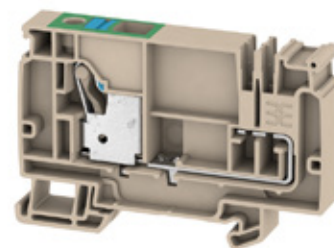
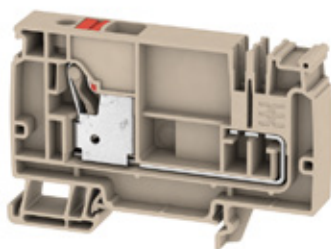
Potential distribution with integrated fusing

**AAP21 10 LO**

**10 mm<sup>2</sup>**

**AAP21 10 FE**

**10 mm<sup>2</sup>**



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

12 x 82 x 54
<b>57 / 10</b>
<b>0.5...10</b>

12 x 82 x 54
<b>/ 10</b>
<b>0.5...10</b>

**Technical data**

Rated data	
Rated voltage of feed-through terminal	V
Rated current	A
for wire cross-section	mm <sup>2</sup>
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	
Clamped conductors (H05V/H07V)	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
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			
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 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	<b>2428910000</b>
AAP21 10 LO BL	20	<b>2428940000</b>
Note		

Type	Qty.	Order No.
AAP21 10 FE	20	<b>2428920000</b>
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	<b>2460450000</b>
ZQV 4N/10 RD		20	<b>2460740000</b>
ZQV 4N/2 BL	32 A	60	<b>1528040000</b>
ZQV 4N/10 BL	32 A	20	<b>1528230000</b>
AEP AP21		20	<b>2429020000</b>
AEB 35 SC/1		50	<b>1991920000</b>
ZEW 35/2		20	<b>8630740000</b>
ATPG 1.5-10 L		50	<b>1991890000</b>
PS 2.0 MC		20	<b>0310000000</b>
SDIL 1,0x5,5x125		1	<b>9042130000</b>
WS 7.8/9.2 PLUS MC NE GR		360	<b>1208970000</b>

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

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

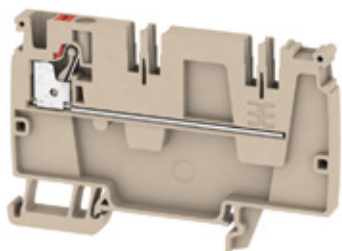
Transportation

Device Manufacturers

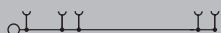
Infrastructure

**AAP21 4 LI**

**4 mm<sup>2</sup>**



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

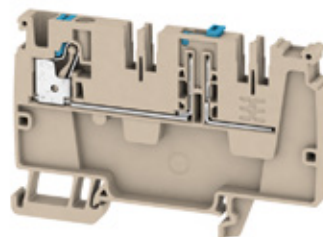
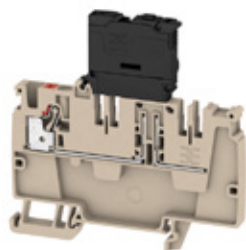
Potential distribution with integrated fusing

#### AAP21 4 FS

4 mm<sup>2</sup>

#### AAP21 4 DT

4 mm<sup>2</sup>



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

6.1 x 82 x 82
<b>6.3 / 4</b>
<b>0.5...4</b>

6.1 x 82 x 55.5
<b>20 / 4</b>
<b>0.5...4</b>

#### Technical data

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

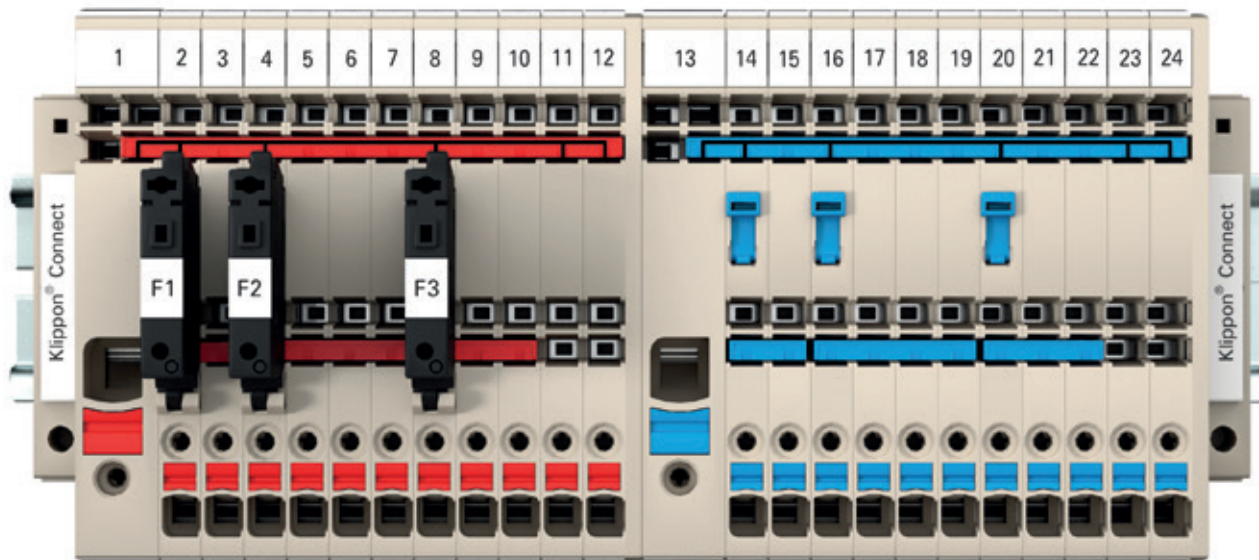
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

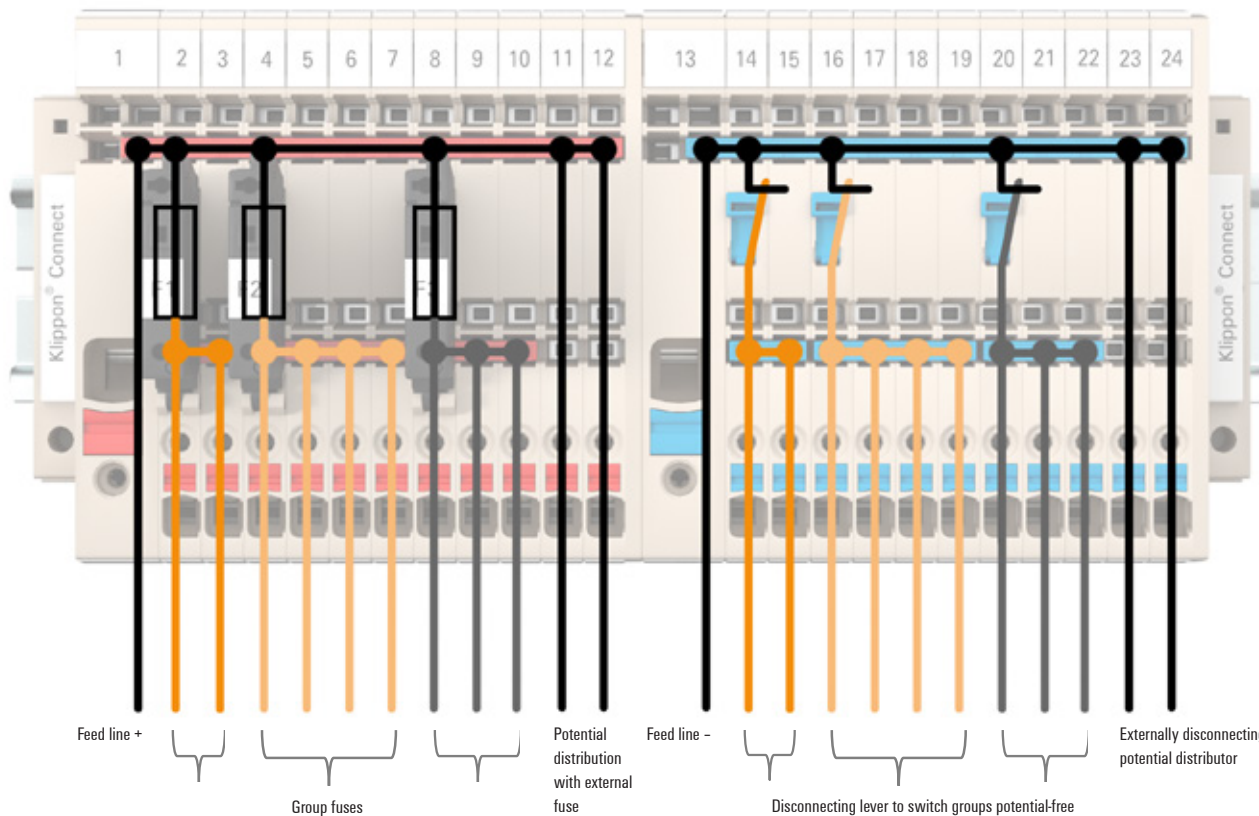
**Clear, compact construction of control voltage distribution**

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**

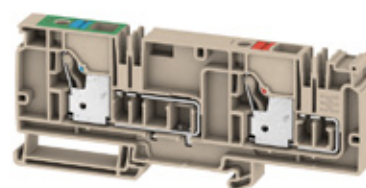
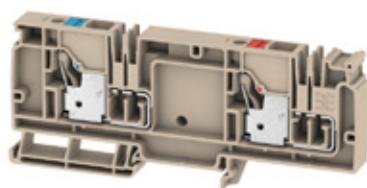
Potential distribution with integrated fusing

**AAP22 10 LO-LO**

**10 mm<sup>2</sup>**

**AAP22 10 FE-LO**

**10 mm<sup>2</sup>**



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

12 x 129 x 54
<b>57 / 10</b>
<b>0.5...10</b>

12 x 129 x 54
<b>17 / 10</b>
<b>0.5...10</b>

**Technical data**

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

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
57			
10			
		4 kV / 3	
		A6 / V-0	

<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
<b>Approval in progress</b>			

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250			
17			
10			
		4 kV / 3	
		A6 / V-0	

<b>Rated connection</b>			
0.5...10 / 0.5...10			
0.5...10 / 0.5...10			
18 / 1.0 x 5.5 mm			
<b>Approval in progress</b>			

**Ordering data**

<b>Version</b>	beige Wemid / red and blue pushers
<b>Note</b>	

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

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

**Accessories**

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

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
<b>AEP AP22</b>			
		20	2429040000
<b>AEB 35 SC/1</b>			
		50	1991920000
<b>ZEW 35/2</b>			
		20	8630740000
<b>PS 2.0 MC</b>			
		20	0310000000
<b>SDIL 1,0x5,5x125</b>			
		1	9042130000
<b>WS 7.8/9.2 PLUS MC NE GR</b>			
		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
<b>AEP AP22</b>			
		20	2429040000
<b>AEB 35 SC/1</b>			
		50	1991920000
<b>ZEW 35/2</b>			
		20	8630740000
<b>PS 2.0 MC</b>			
		20	0310000000
<b>SDIL 1,0x5,5x125</b>			
		1	9042130000
<b>WS 7.8/9.2 PLUS MC NE GR</b>			
		360	1208970000

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

All MultiMark variants (MM) = strip markers

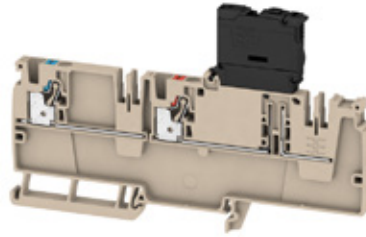
All MultiMark variants (MM) = strip markers



**AAP - potential distribution terminal blocks**

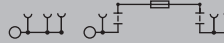
**AAP22 4 LI-FS**

**4 mm<sup>2</sup>**



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

6.1 x 129 x 82
<b>6.3 / 4</b>
<b>0.5...4</b>



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

**Technical data**

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

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

**Note**

<b>Rated connection</b>	
Solid / Stranded	mm <sup>2</sup>
Flexible / Flexible with ferrule	mm <sup>2</sup>
Stripping length	mm
Blade size	mm

**Note**

**Ordering data**

<b>Version</b>	
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	
<b>Note</b>	

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

**Accessories**

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

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
<b>AEP AP22</b>			
		20	2429040000
<b>AEB 35 SC/1</b>			
		50	1991920000
<b>ZEW 35</b>			
		20	9540000000
<b>SDIL 0,6x3,5x100</b>			
		1	9042110000
<b>WS 10/6 M PLUS MC NE WS</b>			
		600	2003780000
<b>DEK 5/6 MM WS</b>			
		600	2007120000
<b>WS 8/6 MM WS</b>			
		600	2007160000
<b>DEK 5/6 PLUS MC NE WS</b>			
		1000	1011320000
<b>G 20/0.25A/F</b>			
		10	0430500000
<b>G 20/0.50A/F</b>			
		10	0430600000
<b>G 20/1.00A/F</b>			
		10	0430700000
<b>G 20/2.00A/F</b>			
		10	0430900000

<b>G-fuse cartridge, 5 x 20 mm (IEC 60127-2)</b>	
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

Technical data

Machinery

Process

Energy

Transportation

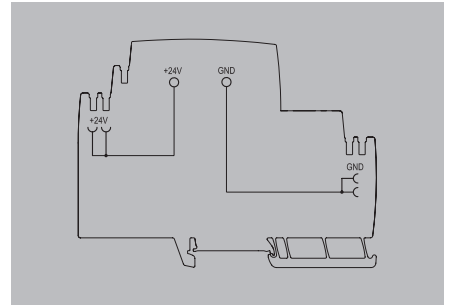
Device Manufacturers

Infrastructure

### 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 <sup>2</sup>
Wire cross-section, rigid min/max	0.75...10 mm <sup>2</sup>
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

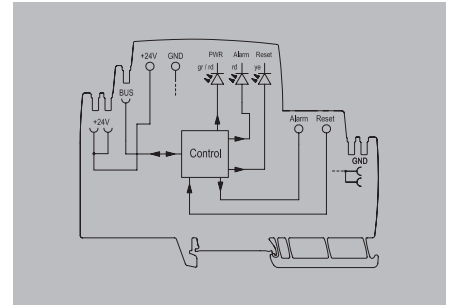
Device  
Manufacturers

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 <sup>2</sup>
Wire cross-section, rigid min/max	0.75...10 mm <sup>2</sup>
Screwdriver blade	1.2 x 6.5
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367
Note	

**Ordering data**

Rated current	
Note	

Technical data		
Type	Qty.	Order No.
AMG FIM-C	1	2081880000

Ordering data		
Type	Qty.	Order No.
AMG FIM-C	1	2081880000

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



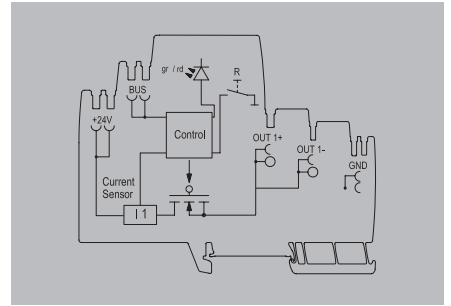
Infrastructure



**maxGUARD – load monitoring (fixed value)**

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

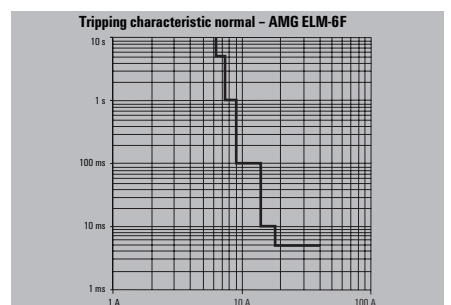
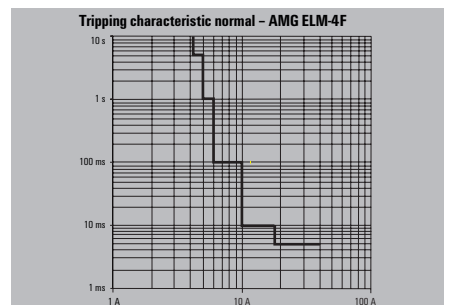
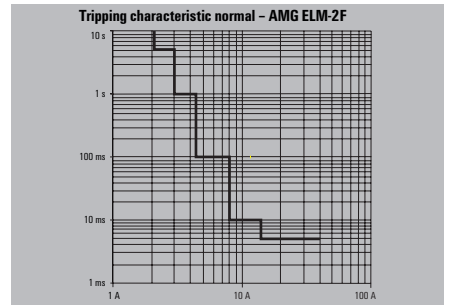
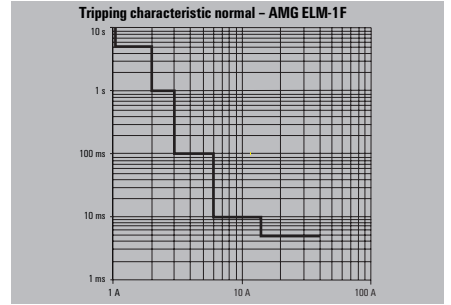
**AMG ELM - xF**



**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 <sub>load</sub> +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
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 <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367
Note	

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

Accessories		
Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000
Note		

Accessories		
Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000
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**

<b>Input</b>	
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 <sub>OUT</sub> +30 mA
max. admissible residual ripple at the input	100 mVpp
Surge protection	Suppressor diode
<b>Output</b>	
Connection system	PUSH IN
Triggering characteristic	see characteristic curve
Switch-on delay	1 s
Capacitive load	2080600000: 15,000 µF; 2080650000: 20,000 µF
<b>Function key</b>	
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
<b>General data</b>	
Relay to activate the output	No
Protection degree	IP20
Oversvoltage category	III
<b>Signalling</b>	
LED green	Operation (failure-free)
LED red	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
<b>Connection data</b>	
Number of terminals	4 (++ / -)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5
<b>Approvals</b>	
Approvals	CE, TÜV (60950), cULus, UL 2367
<b>Note</b>	

**Ordering data**

<b>Rated current</b>	8.00 A
	10.00 A
<b>Note</b>	

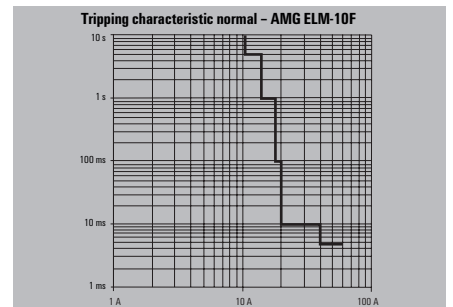
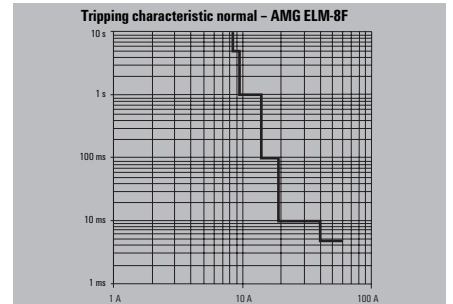
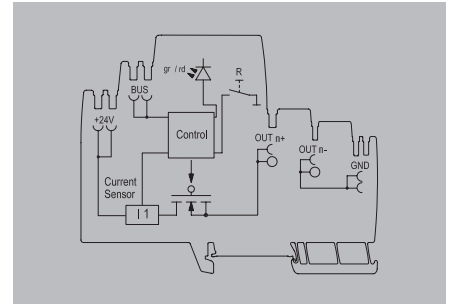
**Accessories**

<b>Note</b>	
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**AMG ELM - xF**



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



Technical data

Machinery

Process

Energy

Transportation

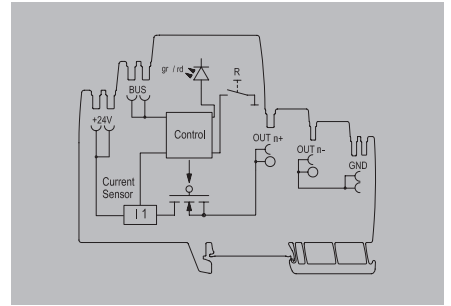
Device Manufacturers

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**

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 <sub>OUT</sub> +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

Yes
18...30 V DC
24 V DC
25 mA
I <sub>OUT</sub> +30 mA
100 mVpp
Suppressor diode
PUSH IN
see characteristic curve
1 s
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

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

**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)

No
IP20
III
Operation (failure-free)
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 <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5

2 (+ / -)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5

**Approvals**

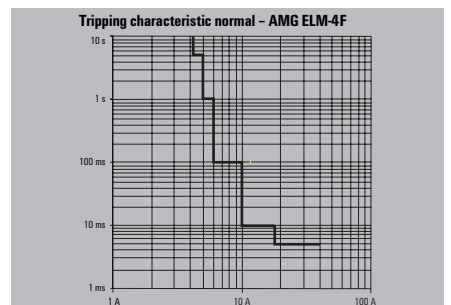
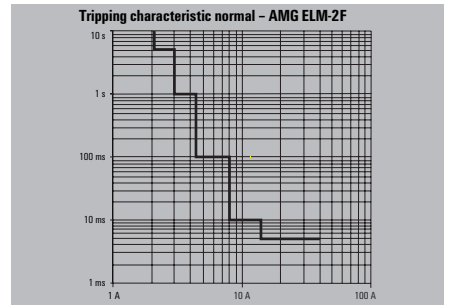
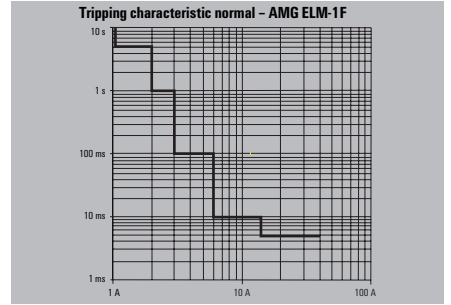
Approvals	CE, TÜV (60950), cULus, UL 2367, class 2 (UL 1310)
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CE, TÜV (60950), cULus, UL 2367, class 2 (UL 1310)
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**Ordering data**

	1.00 A
	2.00 A
	4.00 A
Note	

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



Technical data

Machinery

Process

Energy

Transportation

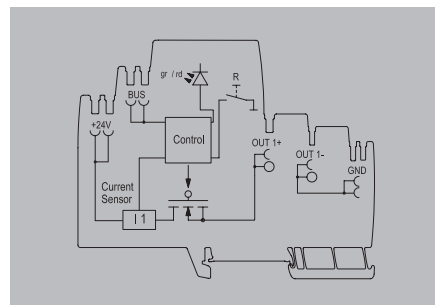
Device Manufacturers

Infrastructure

### maxGUARD – load monitoring adjustable

Electronic load monitoring with adjustable triggering current and triggering characteristic

### AMG ELM-6



#### 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

Output
Connection system
Triggering characteristic
Backup modes
Switch-on delay
Capacitive load
adjustable rated current
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
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
6.00 A

Note

#### Accessories

Note

Yes
18...30 V DC
24 V DC
25 mA
I <sub>OUT</sub> +30 mA
100 mVpp

PUSH IN
see characteristic curve
1- 6 A
1 s
15,000 µF
Yes
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

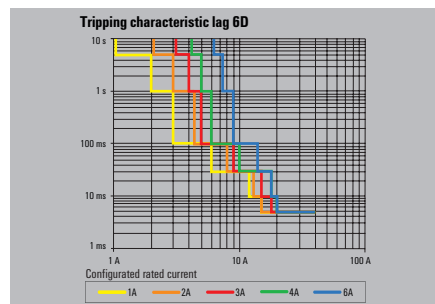
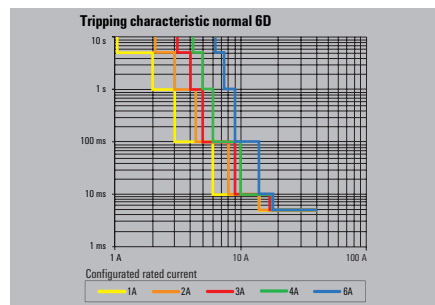
No
IP20
III
Operation (failure-free), Early warning: I <sub>Out</sub> > 90% I <sub>Rated</sub> (flashing) Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)

2 (+ / -)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5

CE, TÜV (60950), cULus, UL 2367
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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



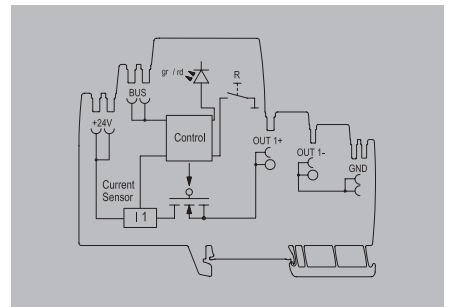
Infrastructure



**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 <sub>OUT</sub> +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

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	4 (++) / -)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5

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

Note	
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**Ordering data**

Rated current	
	12.00 A

Note	
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**Accessories**

Note	
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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 <sub>OUT</sub> +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

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

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	4 (++) / -)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5

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

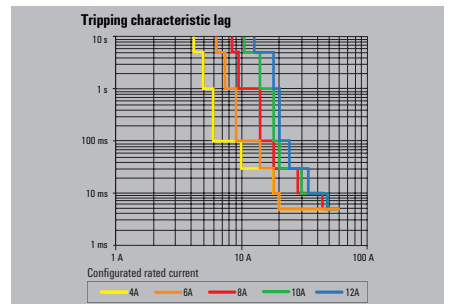
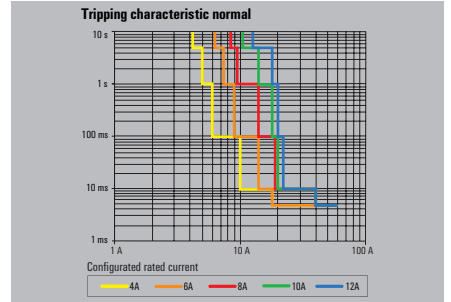
Note	
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Type	Qty.	Order No.
AMG ELM-12	1	2080410000

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

Note		
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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	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000

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
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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)

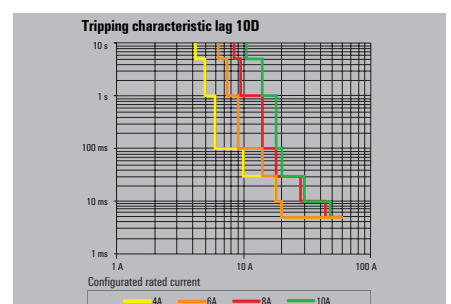
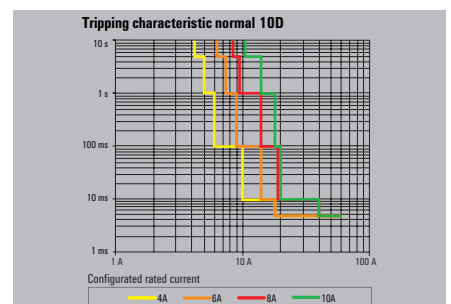
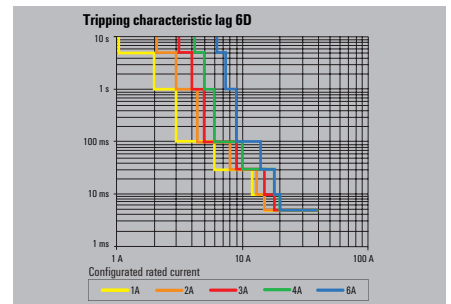
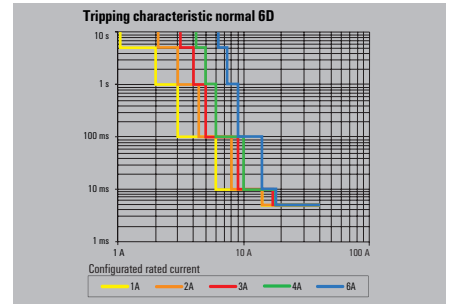
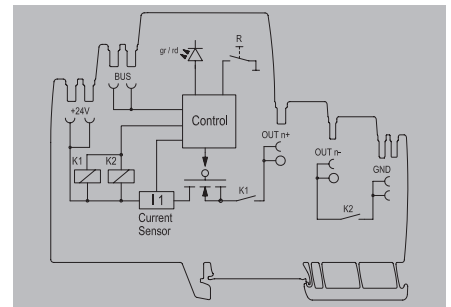
6 (3x + / 3x -)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5

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

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

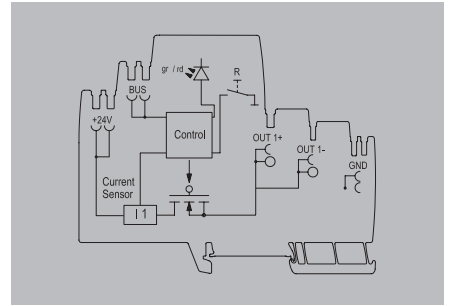
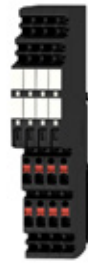
Device Manufacturers

Infrastructure

**maxGUARD – load monitoring, 4 channels**

4-channel electronic load monitoring with fixed triggering current.

**AMG ELM - Qxxxx**



**Technical data**

<b>Input</b>
Input fuse (internal)
DC input voltage range
Rated input voltage
Current consumption (idle) / Current consumption (full load)
max. admissible residual ripple at the input
<b>Output</b>
Connection system
Triggering characteristic
Switch-on delay
adjustable rated current
Capacitive load
Surge protection
Rated current per channel

Yes
18...30 V DC
24 V DC
35 mA / 4x I <sub>OUT</sub> +45 mA
100 mVpp
<b>PUSH IN</b>
see characteristic curve
1 s
No
10,000 µF
Suppressor diode
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
<b>Function key</b>
LED initial state
Pressing the button

4
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)

LED, subsequent state
Output, subsequent state
<b>General data</b>
Relay to activate the output
Protection degree / Overvoltage category

Red LED
Red LED
LED green
switched off
switched off
switched on

<b>Signalling</b>
LED green
LED red

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

No
IP20 / III
<b>Operation (failure-free)</b>
Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
8 (4x ++)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5

<b>Approvals</b>
Approvals
<b>Note</b>

CE, TÜV (60950), cULus, UL 2367
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**Ordering data**

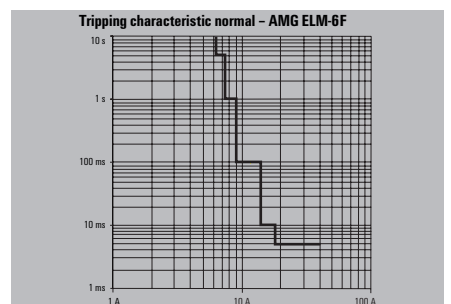
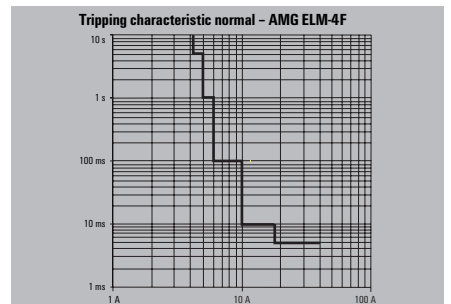
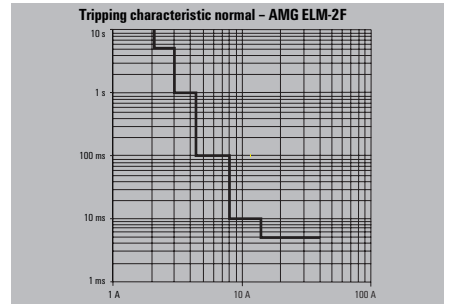
<b>Rated current</b>
<b>Note</b>

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

**Accessories**

<b>Note</b>
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Type	Qty.	Order No.
AMG XMD	10	2122940000



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

**maxGUARD – Alarm module**

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

**Technical data**

<b>Input</b>
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
<b>General data</b>
Protection degree
Overvoltage category
<b>Signalling</b>
LED yellow
LED red
Floating contact
Status relay (max. load)
<b>Connection data</b>
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade
<b>Approvals</b>
Approvals
<b>Note</b>

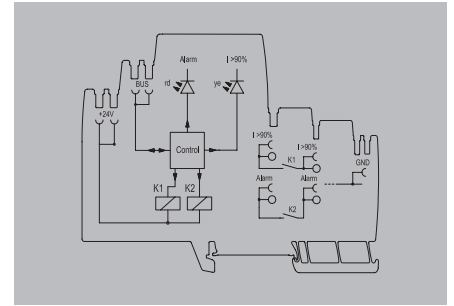
**Ordering data**

<b>Rated current</b>
<b>Note</b>

**Accessories**

<b>Pluggable cross-connection</b>	
	50-pole
	50-pole / red
	50-pole / blue
	2-pole
	2-pole/ red
	2-pole / blue
<b>Note</b>	

**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 <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
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

Technical data

Machinery

Process

Energy

Transportation

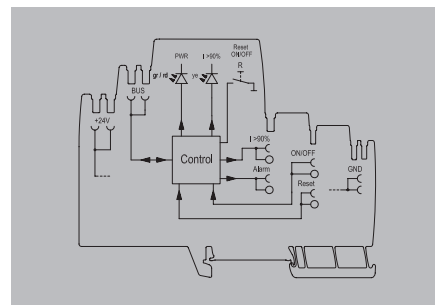
Device Manufacturers

Infrastructure

**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 <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
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 <sup>2</sup>	
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>	
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

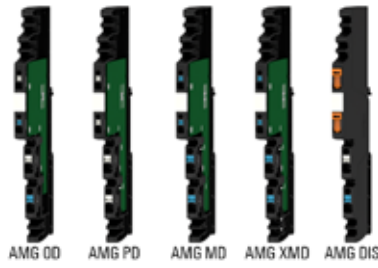
Device Manufacturers

Infrastructure

**maxGUARD – Potential distributor**

Potential distribution in combination with the electronic load monitoring.

**AMG**



**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 <sup>2</sup> , 2 x 2.5 mm <sup>2</sup>
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
Screwdriver blade	0.6 x 3.5
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367
Note	

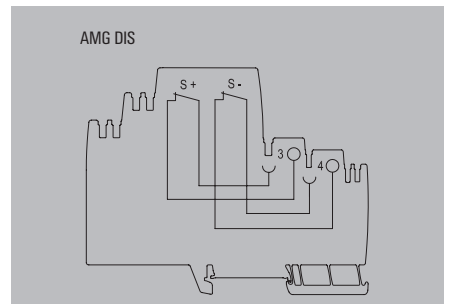
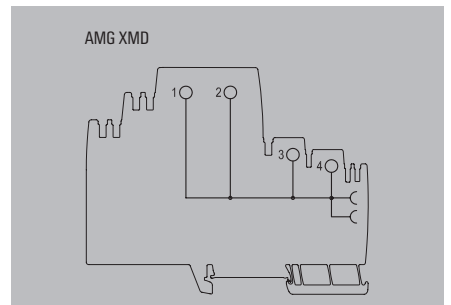
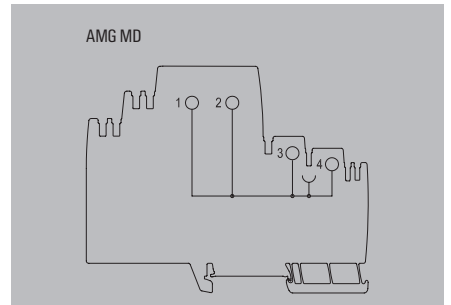
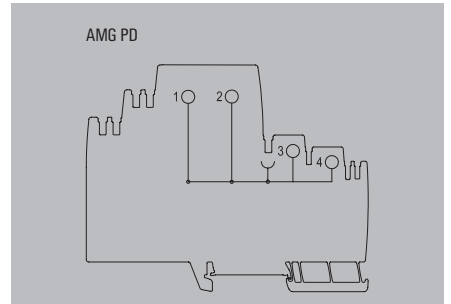
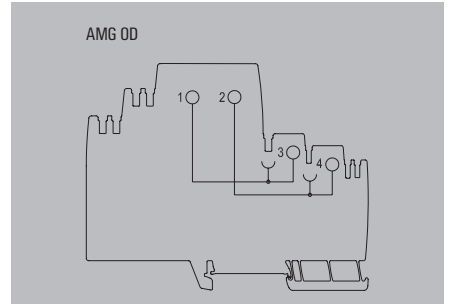
**Ordering data**

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

**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



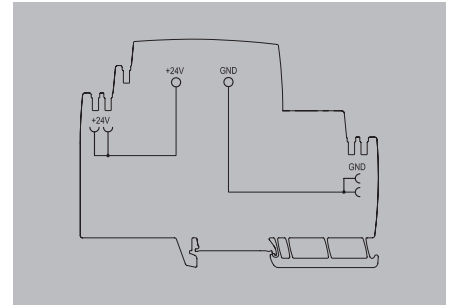
Infrastructure



### maxGUARD – 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 <sup>2</sup>		
Wire cross-section, rigid min/max	0.75...10 mm <sup>2</sup>		
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

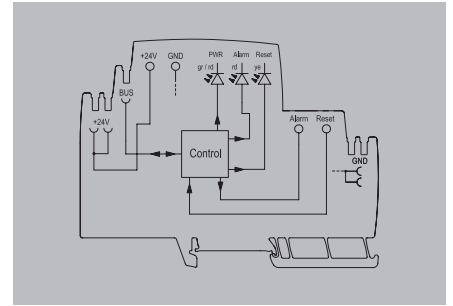
Device  
Manufacturers

Infrastructure

**maxGUARD – power-feed module**

Active power-feed module with reset and alarm function

**AMG FIM-C Ex**



**Technical data**

<b>Input</b>
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
<b>General data</b>
Protection degree
Control inputs
Overvoltage category
<b>Signalling</b>
LED yellow
LED green
LED red
Transistor output, positive-switching
<b>Connection data</b>
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade
<b>Approvals</b>
Approvals
<b>Note</b>
<b>Ordering data</b>
<b>Rated current</b>
<b>Note</b>

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 <sup>2</sup>		
0.75...10 mm <sup>2</sup>		
1.2 x 6.5		
CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
AMG FIM-C EX	1	2082540000

Technical data

Machinery

Process

Energy

Transportation

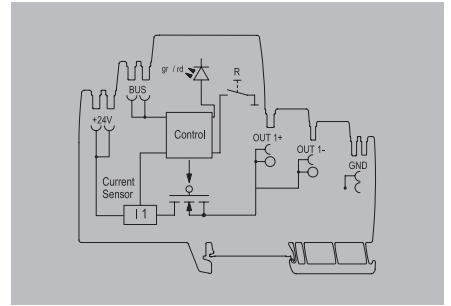
Device Manufacturers

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 <sub>OUT</sub> +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	Suppressor diode
Function key	
LED initial state	LED green, in operation

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	Red LED	LED green
Output, subsequent state	switched off	switched off	switched on

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

Signalling	
LED green	LED green
LED red	LED red

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 <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
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	
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**Ordering data**

Rated current	
1.00 A	
2.00 A	
4.00 A	
6.00 A	

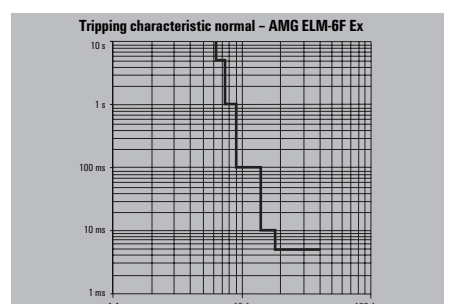
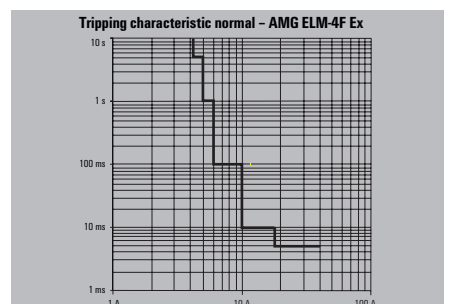
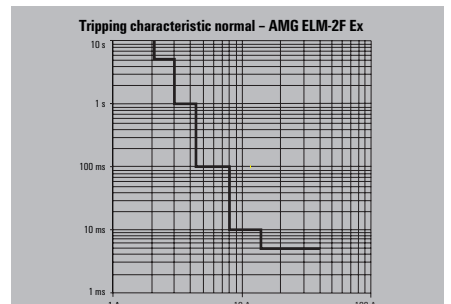
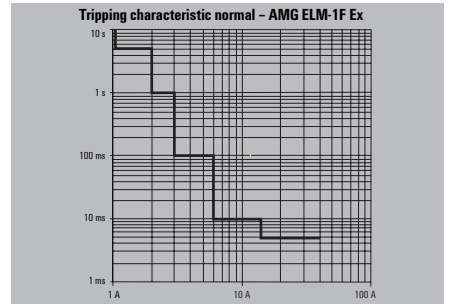
Note	
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**Accessories**

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-1F EX	1	2082040000
AMG ELM-2F EX	1	2082050000
AMG ELM-4F EX	1	2082060000
AMG ELM-6F EX	1	2082310000



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)
- 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
- Oversvoltage 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<sub>OUT</sub> +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

**Oversvoltage category**

III

**Operation (failure-free)**

Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)

**Number of terminals**

4 (++ / -)

**Wire cross-section, AWG/kcmil min/max**

26...12

**Wire cross-section, flexible min/max**

0.14...2.5 mm<sup>2</sup>

**Wire cross-section, rigid min/max**

0.14...2.5 mm<sup>2</sup>

**Screwdriver blade**

0.6 x 3.5

**Approvals**

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
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AMG ELM-10F EX	1	2082430000
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**Type**

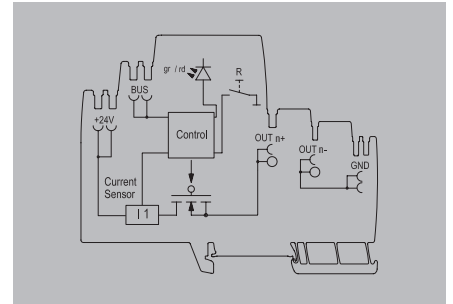
Type	Qty.	Order No.
------	------	-----------

AMG DIS	10	2123050000
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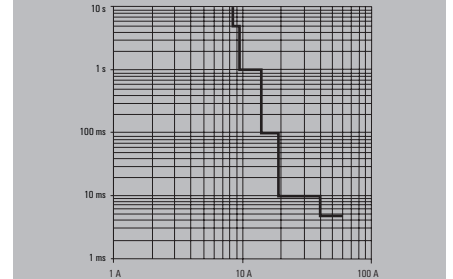
AMG MD	10	2122930000
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AMG OD	10	2122910000
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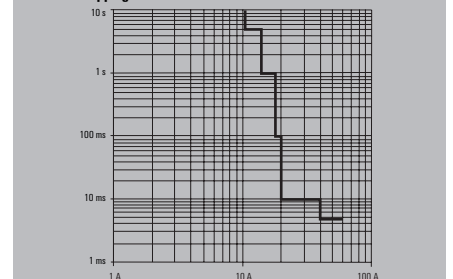
AMG PD	10	2122920000
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**Tripping characteristic normal – AMG ELM-8F Ex**



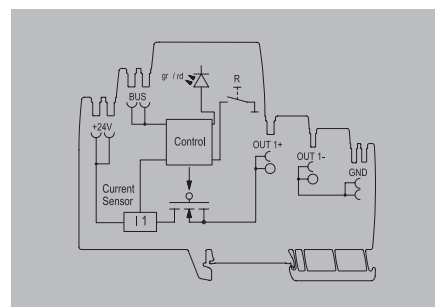
**Tripping characteristic normal – AMG ELM-10F Ex**



**maxGUARD – load monitoring adjustable**

Electronic load monitoring with adjustable triggering current and triggering characteristic

**AMG ELM-6 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

Output
Connection system
Triggering characteristic
Backup modes

Switch-on delay
Capacitive load
adjustable rated current
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
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
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 <sub>OUT</sub> +30 mA
100 mVpp

PUSH IN
see characteristic curve
1- 6 A

1 s
15,000 µF
Yes
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)
----------------------------------	----------------------------------	------------------------

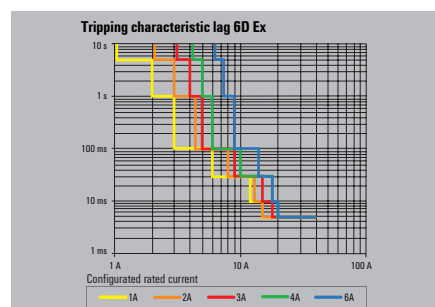
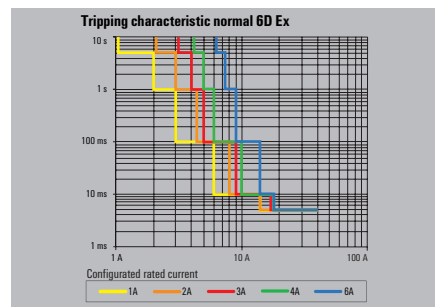
Red LED switched off	Red LED switched off	LED green switched on
----------------------	----------------------	-----------------------

No
IP20
III

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

2 (+ / -)
26...12
0.14...2.5 mm <sup>2</sup>
0.14...2.5 mm <sup>2</sup>
0.6 x 3.5

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



Technical data

Machinery

Process

Energy

Transportation

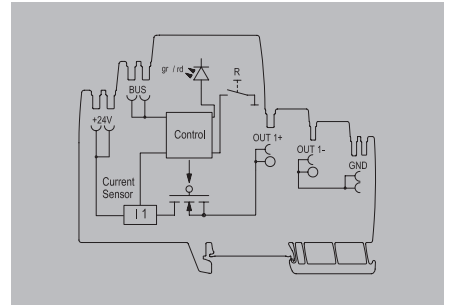
Device Manufacturers

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 <sub>OUT</sub> +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
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	> 0.1 to 2 s (confirm and reset)
Protection degree	> 0.1 to 2 s (restart)
Overvoltage category	Red LED switched off
Signalling	
LED green	Red LED switched off
LED red	LED green switched on
Connection data	
Number of terminals	No
Wire cross-section, AWG/kcmil min/max	IP20
Wire cross-section, flexible min/max	III
Wire cross-section, rigid min/max	Operation (failure-free), Early warning: I <sub>Out</sub> > 90% I <sub>Rated</sub> (flashing)
Screwdriver blade	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
Approvals	
Approvals	4 (++ / -)
Note	26...12
	0.14...2.5 mm <sup>2</sup>
	0.14...2.5 mm <sup>2</sup>
	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

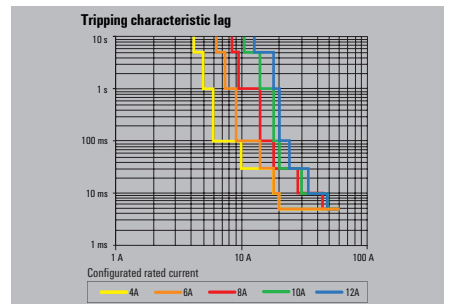
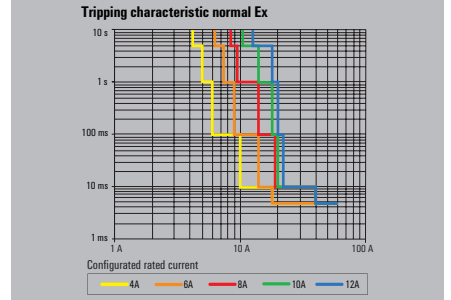
**Ordering data**

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



Technical data

Machinery

Process

Energy

Transportation

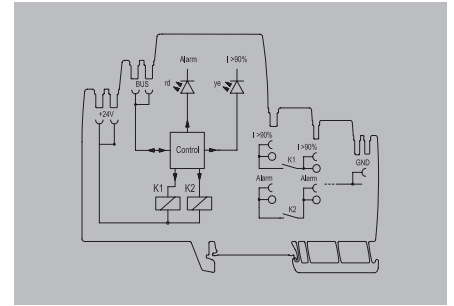
Device Manufacturers

Infrastructure

**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 <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
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	

Technical data		
Type	Qty.	Order No.
AMG AM CO	1	2082770000

**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

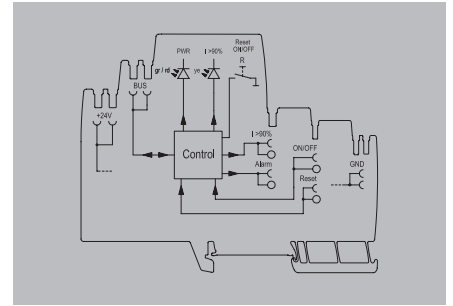
Device  
Manufacturers

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 <sup>2</sup>
Wire cross-section, rigid min/max	0.14...2.5 mm <sup>2</sup>
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

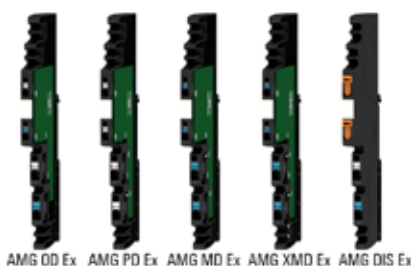
Device Manufacturers

Infrastructure

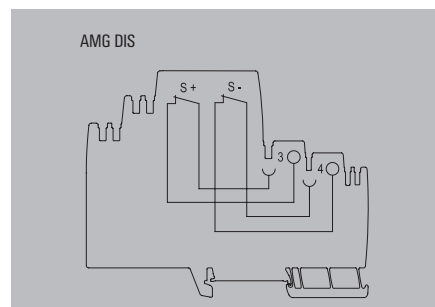
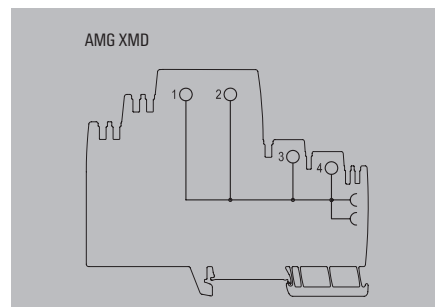
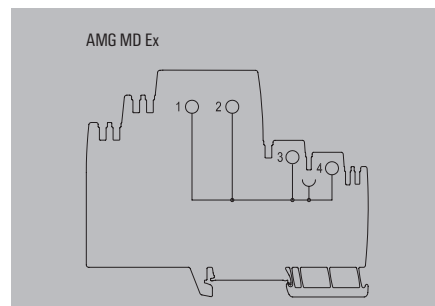
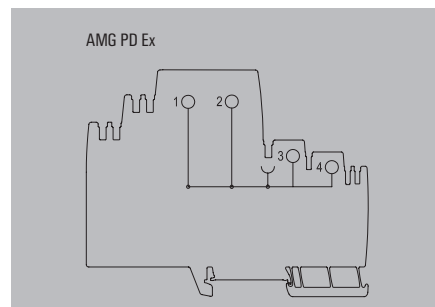
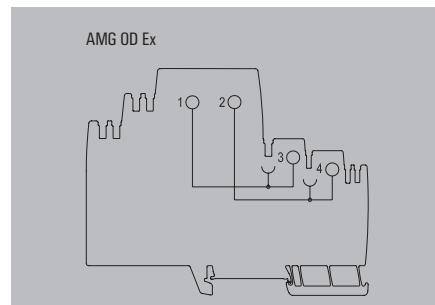
**maxGUARD – Potential distributor**

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 mm<sup>2</sup>, 2 x 2.5 mm<sup>2</sup>  
26...12  
0.14...2.5 mm<sup>2</sup>  
0.14...2.5 mm<sup>2</sup>  
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

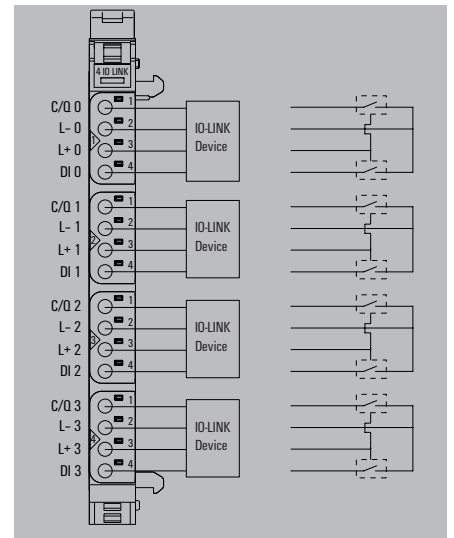
System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48
Galvanic isolation	500 V DC between the current paths
Supply	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption I <sub>m</sub> (power segment of the field bus coupler), typ.	8 mA
Current consumption I <sub>m</sub> (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	

#### Ordering data

Module variants	Type	Qty.	Order No.
Digital communication module, 4 channels	UR20-4COM-IO-LINK	1	1315740000
Note			

#### Accessories

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
Replacement parts		
UR20-EM-1315740000-SP	1	1347340000
UR20-BM-SP	5	1350930000
UR20-PK-1315740000-SP	5	2508760000
Note		
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-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 <sub>in</sub> (input current path) , max.	10 A
Feed current for I <sub>out</sub> (output current path) , max.	10 A
Current consumption I <sub>m</sub> (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

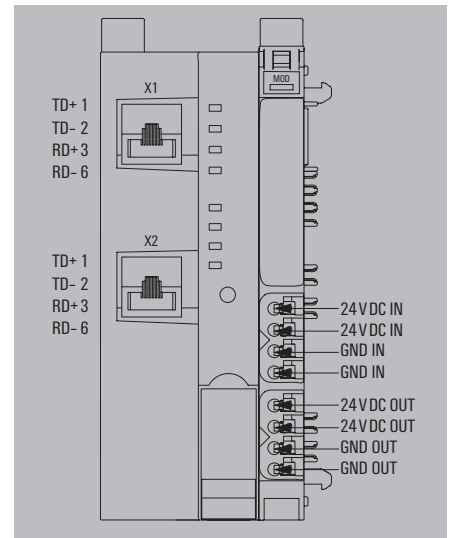
Module variants	
	Field bus coupler, ModbusTCP
Note	

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
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*
<b>Hinweis</b>	* 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  
Field bus protocol  
Process data  
Parameter data  
Diagnostic data  
max. number of modules  
Configuration interface  
Transmission rate of field bus, max.  
Transmission speed of system bus, max.

#### Supply

Supply voltage system and inputs  
Supply voltage for outputs  
Feed current for  $I_{IN}$  (input current path), max.  
Feed current for  $I_{OUT}$  (output current path), max.  
Current consumption  $I_{IN}$  (power segment of the field bus coupler), typ.

#### General data

Weight  
Dimensions H x W x D

#### Note

2 x RJ45 plug-in connectors

POWERLINK

2980 Byte

4 kByte

3008 Byte

64

Micro USB 2.0

100 Mbit/s

48 Mbit/s

24 V DC +20%/-15%

24 V DC +20%/-15%

10 A

10 A

100 mA

318 g

120 mm / 52 mm / 76 mm

Download of XDD-files on [www.weidmueller.com](http://www.weidmueller.com)

### Ordering data

#### Module variants

#### 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  
USB cable (USB A to Micro USB)

#### Replacement parts

Plug-in connector unit

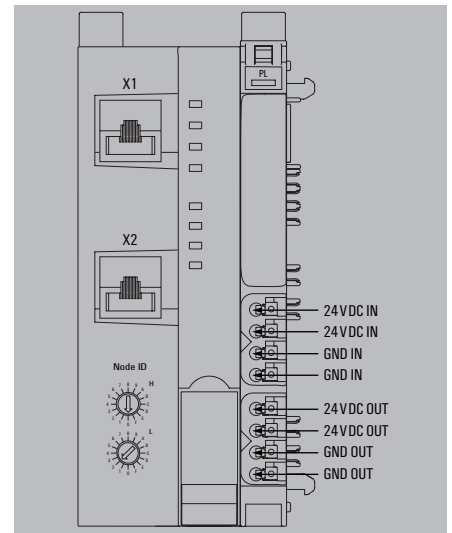
#### Note

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
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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 <sub>m</sub> (power segment of the field bus coupler), typ.	8 mA
Current consumption I <sub>m</sub> (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	

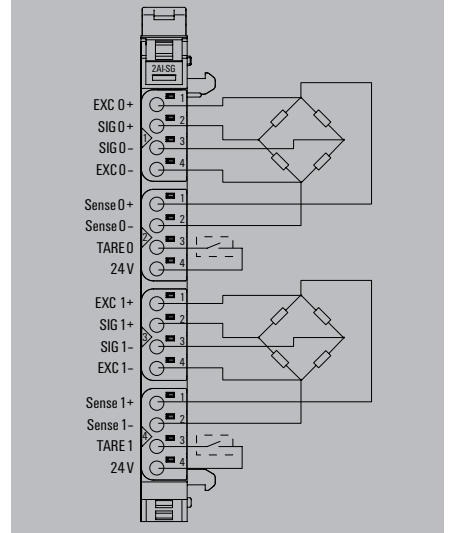
### UR20-2AI-SG-24-DIAG



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 <sub>m</sub> (power segment of the field bus coupler), typ.	8 mA
Current consumption I <sub>m</sub> (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
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Note
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Note
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**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  
Ambient temperature  
Temperature range, assembly, min. / max.  
Storage temperature  
Material colour  
Protection degree  
Insulating material  
UL 94 flammability rating  
Rated voltage  
Rated impulse withstand voltage

181 / 192 / 165 mm  
-25 °C...+45 °C  
10...40 °C  
-25 °C...70 °C  
Black  
IP65  
Polycarbonate  
5VA  
400 V  
4 kV

##### IDC connection for power distribution

Rated current  
Rated current branch  
Clamping range, rated connection, min./max.  
Blade size

41 A  
16 A  
2.5 / 6 mm<sup>2</sup>  
0.6 x 3.5 mm

##### PUSH IN connection distribution

Clamping range, rated connection, min./max.  
Connection cross-section, flexible, min. / max.  
Blade size  
Stripping length, PUSH IN connection

0.5...6 mm<sup>2</sup>  
0.5...10 mm<sup>2</sup>  
0.6 x 3.5 mm  
14 mm

##### Technical data switch

Rated current AC-23A  
Clamping range, rated connection, min./max.  
Terminals - torque

16 A  
0.75 / 10 mm<sup>2</sup>  
0.8 Nm

##### Technical data of fuse holder

Cartridge fuse  
**Note**

10 x 38 mm

#### Ordering data

##### Note

Type	Qty.	Order No.
FP Box ON/OFF16A FUSE R	1	8000028513

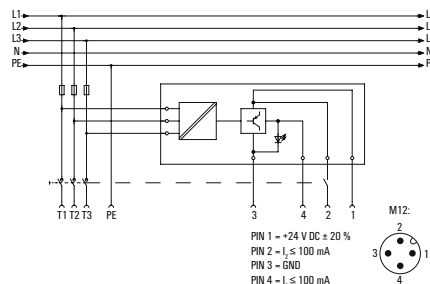
Included in delivery: three 10 x 38 safety fuses 16 A gG; six enclosure seals: 3x 432324000, 2x 432323000, 1x 432321000

#### 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.
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





Infrastructure



Device  
Manufacturers



Transportation



Energy



Process



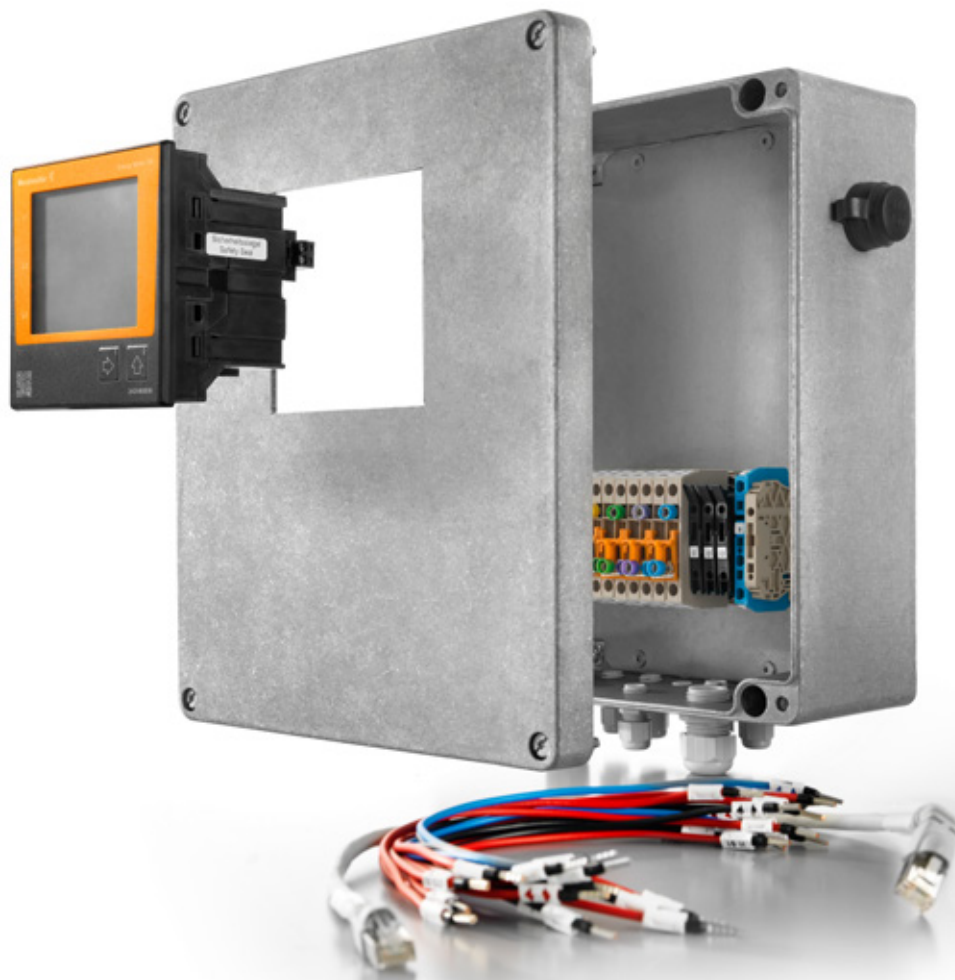
Machinery

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
<b>Note</b>	* 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%
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	128 MB
<b>Display and inputs/outputs</b>	
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
<b>Communication</b>	
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
<b>Protocol</b>	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-current input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Supply voltage	20 ... 50 V AC ±10%, 20 ... 70 V DC ±10%
<b>General data</b>	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
<b>Voltage quality measurement</b>	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
<b>Measurement data recording</b>	
Memory (Flash)	128 MB
<b>Display and inputs/outputs</b>	
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
<b>Communication</b>	
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
<b>Protocol</b>	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP
<b>Measuring-voltage input</b>	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
<b>Measuring-current input</b>	
Rated current	1 / 5 A
<b>Note</b>	

Ordering data

<b>Note</b>
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Type	Qty.	Order No.
ENERGY ANALYSER D550-24	1	2489780000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



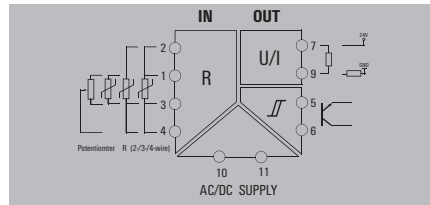
Infrastructure



**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**

<b>Input</b>	
Number of inputs	1
Input resistance	0... 15 kΩ
Potentiometer	10... 150 kΩ
<b>Output (digital)</b>	
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
<b>Output (analogue)</b>	
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
<b>General data</b>	
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
<b>Insulation coordination</b>	
EMC standards	EN 61326-1
Standards	EN 61010-1
Insulation voltage	4 kV <sub>eff</sub> / 1 min.
Rated voltage	600 V
Impulse withstand voltage	5 kV (1.2/50 μs)
Pollution degree	2
Overvoltage category	II

<b>Dimensions</b>		<b>Pluggable screw connection</b>
Clamping range (nominal / min. / max.)	mm <sup>2</sup>	2.5 / 0.5 / 2.5
Depth / Width / Height	mm	113.7 / 12.5 / 117.2
<b>Note</b>		

**Ordering data**

<b>Channel</b>		<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
	PUSH IN connection	ACT20P-PRO-RTCI-AO-DO-P	1	2448110000
	Screw connection	ACT20P-PRO-RTCI-AO-DO-S	1	2448100000

<b>Note</b>	
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**Accessories**

<b>Note</b>	
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Technical data

Machinery

Process

Energy

Transportation

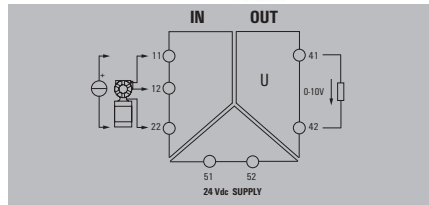
Device Manufacturers

Infrastructure

## 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	1
Input signal	2-/3-wire transmitter, Current source
Input current	0...20 mA, 4...20mA
Sensor supply	> 17 V DC at 20 mA
Output	
Number of outputs	1
Output voltage	0...10 V, 2...10 V
load impedance voltage	≥ 500 kΩ
General data	
Step response time	≤ 0,5 ms
Current consumption	≤60 mA (24V power supply, 20mA output)
Configuration	none
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
Temperature coefficient	80 ppm/K
Supply voltage	20...30 V DC
Insulation coordination	
Insulation voltage	2 kV (Input /Output), 1 min, 50 Hz
Impulse withstand voltage	4 kV (1.2/50 μs)
EMC standards	EN 61326-1
Standards	EN 61010-1, UL 61010-1
Test voltage	300 V
Pollution degree	2
Overvoltage category	III

Dimensions		
Clamping range (nominal / min. / max.)	mm <sup>2</sup>	0.6 / 0.5 / 2.5
Depth / Width / Height	mm	113.7 / 12.5 / 117.2
Note		

### Ordering data

Type	Qty.	Order No.
ACT20P-CI-V0	1	1540010000

Note	
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### Accessories

Note	
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Technical data

Machinery

Process

Energy

Transportation

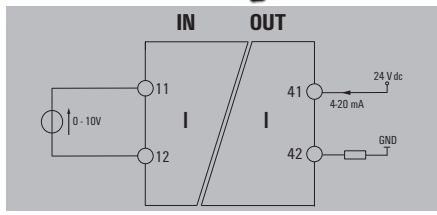
Device Manufacturers

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 <sup>2</sup>
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**

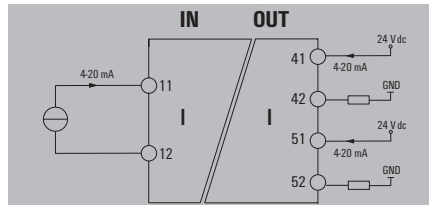
Note	
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Note	
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## Current transformer signal splitter, output loop powered

- 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	1
Input current	4...20mA
Sensor	Current source
Output	
Number of outputs	2
Output current	4...20 mA, loop-powered
load impedance current	$R_L = (U_B - 12 \text{ V}) / 20 \text{ mA}$ z.B. $600 \Omega$ at 24 V
General data	
Configuration	none
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 (Input /Output), 1 min, 50 Hz
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 <sup>2</sup>
Depth / Width / Height	mm
Note	

#### Ordering data

Type	Qty.	Order No.
ACT20P-CI-2CO-OLP	1	7760054122
Note		

#### Accessories

Note

Pluggable screw connection	
2.5 / 0.5 / 2.5	
114 / 12.5 / 117.2	
Note	

Type	Qty.	Order No.
ACT20P-CI-2CO-OLP	1	7760054122

Note

Note



Technical data

Machinery

Process

Energy

Transportation

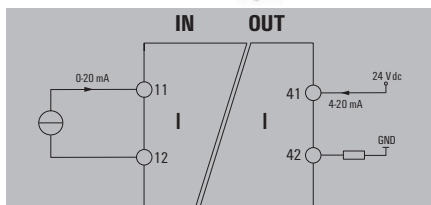
Device Manufacturers

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
Overvoltage 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 <sup>2</sup>
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**

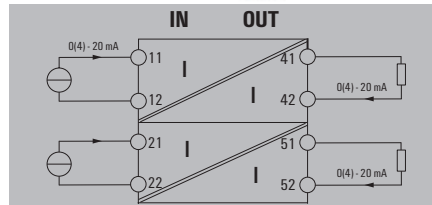
Note	
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**Current transformer, input loop powered**

- 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

Pluggable screw connection		
Clamping range (nominal / min. / max.)	mm <sup>2</sup>	2.5 / 0.5 / 2.5
Depth / Width / Height	mm	114 / 12.5 / 117.2
Note		

Dimensions	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Depth / Width / Height	mm
Note	

Pluggable screw connection		
Clamping range (nominal / min. / max.)	mm <sup>2</sup>	2.5 / 0.5 / 2.5
Depth / Width / Height	mm	114 / 12.5 / 117.2
Note		

**Ordering data**

Channel	2 channel
	1 channel
Note	

Type	Qty.	Order No.
ACT20P-2CI-2CO-ILP	1	7760054124
ACT20P-CI-CO-ILP	1	7760054123

**Accessories**

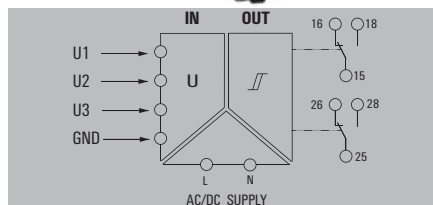
Note	
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### Voltage monitoring, 1-phase

- 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% $U_{\text{rated voltage}}$
Input frequency	40...60 Hz, DC
Input resistance, voltage	1 M $\Omega$ ±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% * $U_{\text{rated voltage}}$
Measurement calibration	max: 70...120% * $U_{\text{rated voltage}}$ , min: 50...100% * $U_{\text{rated voltage}}$
Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC
Step response time	< 220 ms (10...90 %)
Temperature coefficient	350 ppm/K
Repeat accuracy	2% * $U_{\text{rated voltage}}$
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 $\mu$ 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	
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#### Accessories

Note	
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Technical data

Machinery

Process

Energy

Transportation

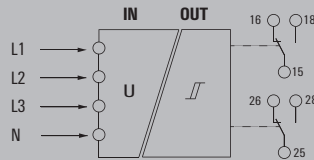
Device Manufacturers

Infrastructure

### 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	1
Input frequency	40..60 Hz
Input measurement range	200...480 VAC
Input voltage	180...500 VAC
Input resistance, voltage	≥1,8MΩ

Output (digital)	
Number of digital outputs	2
Type	2 x 1 - or 1 x 2 changeover contact relay
Alarm function	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	5 A
Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V

General data	
Configuration	DIP switch and potentiometer
Accuracy	3% *U <sub>rated voltage</sub>
Measurement calibration	max: 70...120% *U <sub>rated voltage</sub> , min: 50...100% *U <sub>rated voltage</sub>
Unbalanced	Hysteresis: 5%, Phase imbalance in range of adjustment: 5...25%, OFF
Repeat accuracy	2% *U <sub>rated voltage</sub>
Step response time	≤ 100 ms
Temperature coefficient	350 ppm/K
Supply voltage	supplied from voltage measurement inputs

Insulation coordination	
EMC standards	EN 61326-1
Galvanic isolation	2-way isolator, between input/output
Rated voltage	600 VAC (input - output), 300 VAC (output 1 - output 2)
Insulation voltage	2.5 kV (input / output)
Impulse withstand voltage	6 kV (input - output), 4 kV (output 1 - output 2), 1.2/50 μs
Pollution degree	2
Overvoltage category	III
Standards	EN 50178

Dimensions	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Depth / Width / Height	mm

Note	

#### Ordering data

Pluggable screw connection		
	1.5 / 0.5 / 2.5	
	114.3 / 22.5 / 117	

Type	Qty.	Order No.
ACT20P-VMR-3PH-ILP-H	1	7760054165

Note	

#### Accessories

Note	

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



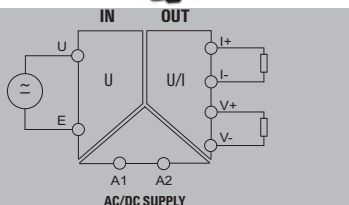
Infrastructure



**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.) mm<sup>2</sup>  
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

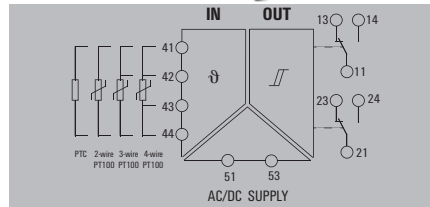
Device Manufacturers

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

<b>Input</b>		
Number of inputs	1	
Sensor	PT100 / 2-/3-/4-wire, PTC: 0...4 kΩ	
Temperature input range	Configurable, PT100: -200°C...850°C	
<b>Output (digital)</b>		
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	
<b>General data</b>		
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	
<b>Insulation coordination</b>		
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	
<b>Dimensions</b>		
Clamping range (nominal / min. / max.)	mm <sup>2</sup>	
Depth / Width / Height	mm	
<b>Note</b>		
<b>Ordering data</b>		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
ACT20P-TMR-RTI-S	1	7760054305
<b>Note</b>		
<b>Accessories</b>		
<b>Note</b>	CBX 200	

<b>Pluggable screw connection</b>
1.5 / 0.5 / 2.5
114.3 / 22.5 / 117

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



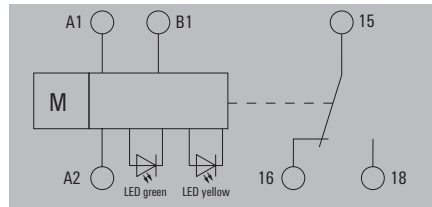
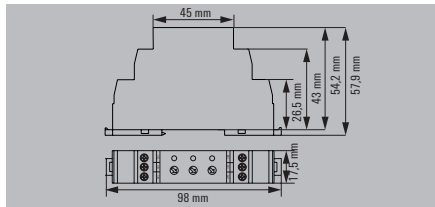
Infrastructure



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 <sup>6</sup> 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 <sup>2</sup> 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

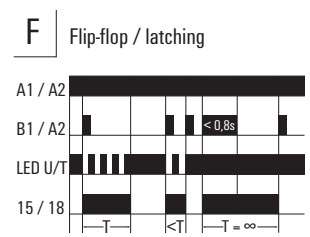
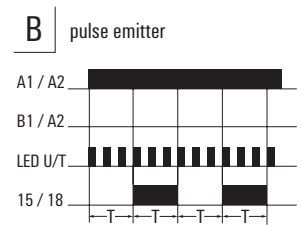
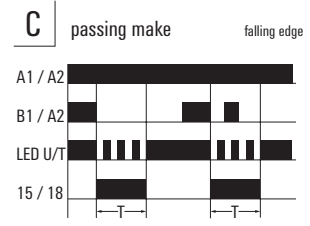
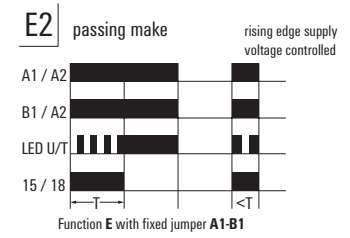
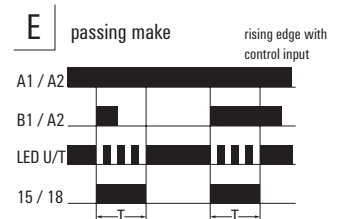
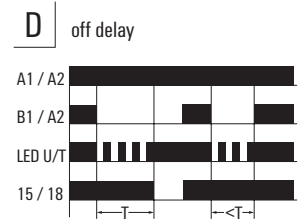
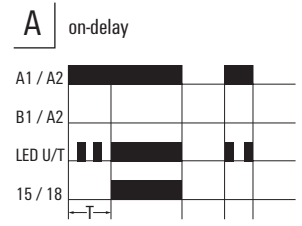
Screw connection
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Note

Accessories

Note
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Time functions





Infrastructure



Device  
Manufacturers



Transportation



Energy



Process



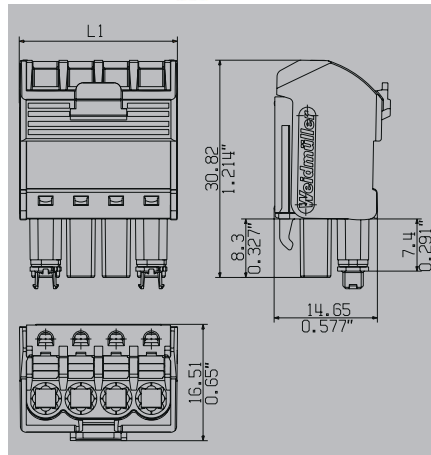
Machinery

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  
 Pitch, in mm  
 Number of rows  
 Can be coded  
 Stripping length  
 Insulating material  
 Colour  
 Insulating material group  
 Contact surface  
 Wire connection cross section AWG, min.  
 Wire connection cross section AWG, max.  
 w. wire end ferrule, DIN 46228 pt 1, min  
 w. wire end ferrule, DIN 46228 pt 1, max.  
 Rated voltage (Use group B)  
 Rated current (use group B)

PUSH IN  
 5.00 mm  
 1  
 Yes  
 8 mm  
 PA 66 GF 30  
 Black  
 II  
 tinned  
 AWG 26  
 AWG 14  
 0.25 mm<sup>2</sup>  
 2.5 mm<sup>2</sup>  
 300 V  
 10 A

Note

**Ordering data**

Release lever black	
	2 pole
	3 pole
	4 pole
Release lever orange	
	2 pole
	3 pole
	4 pole
Release lever blue	
	2 pole
	3 pole
	4 pole
Note	

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

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure





Infrastructure



Device  
Manufacturers



Transportation



Energy



Process



Machinery

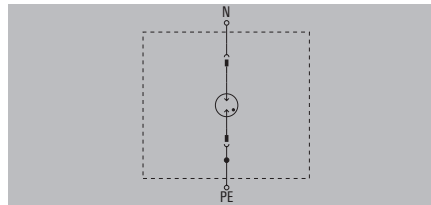
Technical data

**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 $\mu$ s) wire-PE  
 Discharge current  $I_n$  (8/20 $\mu$ s) N-PE  
 Discharge current  $I_{max}$  (8/20 $\mu$ s) wire-PE  
 Discharge current  $I_{max}$  (8/20 $\mu$ 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  $\mu$ A  
 1200 V  
 $\leq 1.6$  kV  
 $\leq 100$  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 mm<sup>2</sup>  
 1.5...50 mm<sup>2</sup>  
 15 mm  
 2...3 Nm

**Approvals**

Approvals  
 Standards

CE  
 IEC61643-11, EN61643-11

**Dimensions / Signalling contact info**

Clamping range (nominal / min. / max.) mm<sup>2</sup>  
 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

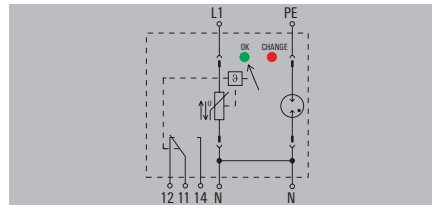
Infrastructure

**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

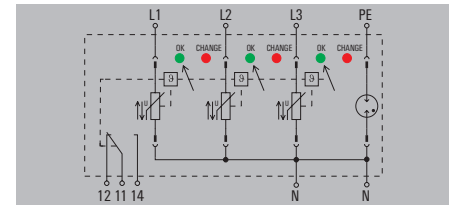
**VPU II 1+1/R 280 40/65**

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 $\mu$ s) wire-PE  
 Discharge current  $I_n$  (8/20 $\mu$ s) N-PE  
 Discharge current  $I_{nmax}$  (8/20 $\mu$ s) wire-PE  
 Discharge current  $I_{nmax}$  (8/20 $\mu$ s) N-PE  
 Combined pulse  $U_{oc}$   
 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

**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.) mm<sup>2</sup>  
 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  $\mu$ A  
 125 A gL (if back-up fuse > 125 A)  
 438 V  
 $\leq 1.55$  kV  
 $\leq 1.6$  kV  
 $\leq 25$  ns,  $\leq 100$  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 mm<sup>2</sup>  
 1.5...50 mm<sup>2</sup>  
 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  $\mu$ A  
 125 A gL (if back-up fuse > 125 A)  
 438 V  
 $\leq 1.55$  kV  
 $\leq 1.6$  kV  
 $\leq 25$  ns,  $\leq 100$  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 mm<sup>2</sup>  
 1.5...50 mm<sup>2</sup>  
 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 <sup>2</sup> ) / PUSH IN
Operating voltage	+VDD: 7...32 V DC
Input fuse	max. 8 A (external)
Optical function display	LED
Interface	Serial 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 <sub>in</sub> )	0...30 V DC
Precision	± 3 % (0.5 V DC)
Digital inputs	
Number	2
Pin assignment	IN 1, IN 2
Input frequency (f <sub>in</sub> )	≤ 1 kHz
Input voltage (U <sub>in</sub> )	0...30 V DC
Digital outputs	
Number	4
Pin assignment	OUT 1, OUT 2, OUT 3, OUT 4
Total output current (I <sub>TOU</sub> ) / Output current per channel (I <sub>OU</sub> )	≤ 4 A / < 1.5 A
Switching frequency (f <sub>OUT</sub> )	0...100 Hz
PWM output	
Number of	1
Pin assignment	OUT 5
Output current per channel (I <sub>OUT</sub> )	≤ 1 A
Note	Can also be used as a digital output (ground-switching)
Switching frequency (f <sub>OUT</sub> )	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 <sup>2</sup> (10 g)
Vibration resistance	min. 50 m/s <sup>2</sup> (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 <sup>2</sup> ) / PUSH IN	
Operating voltage	+VDD: 7...32 V DC	
Input fuse	max. 8 A (external)	
Optical function display	LED	
Interface	Serial 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 <sub>in</sub> )	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 <sub>in</sub> )	≤ 1 kHz	
Input voltage (U <sub>in</sub> )	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 <sub>TOU</sub> ) / Output current per channel (I <sub>OU</sub> )	≤ 6 A / ≤ 1.5 A	
Switching frequency (f <sub>OUT</sub> )	0...100 Hz	
PWM output		
Number of	1	
Pin assignment	OUT 9	
Output current per channel (I <sub>OUT</sub> )	≤ 1 A	
Note	Can also be used as a digital output (ground-switching)	
Switching frequency (f <sub>OUT</sub> )	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 <sup>2</sup> (10 g)	
Vibration resistance	min. 50 m/s <sup>2</sup> (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		
Ordering data		
Type	Qty.	Order No.
graphically programmable logic module	1	1517130000
graphically programmable logic module, CAN interface		
Logic module incl. USB programming adapter	1	1548720000
Note		
You can download the software from the product catalogue on the Weidmüller website.		

Dimensions		
Depth x width x height	30 / 45 / 93	
Note		
Ordering data		
Type	Qty.	Order No.
LOGIC UNIT WCU 650	1	2010680000
STARTERKIT WCU 650	1	2007290000
Note		
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 <sup>2</sup> / 6 mm <sup>2</sup>	4 mm <sup>2</sup> / 6 mm <sup>2</sup>
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 <sup>2</sup>	1 km	1203780000
	PVC-TV1-BK-6-1000 6 mm <sup>2</sup>	1 km	1524740000
	multi-stripax® PV Wire stripping pliers for PV wires from 2.5 mm <sup>2</sup> to 6 mm <sup>2</sup>	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
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Note

Ordering data

Type	Qty.	Order No.
TRANSCLINIC 16i+ 1K5 L	1 ST	2433950000

Note

Accessories

Note	
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Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

Infrastructure





Infrastructure



Device  
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
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Note	

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**Ordering data**

FAD for wiring-arm WA-WC	
FAD for wiring-arm WB-WD	

Type	Qty.	Order No.
FAD 1771-WA/WC BL10 M	1	2448650000
FAD 1771-WB/WD BL12 M	1	2448680000

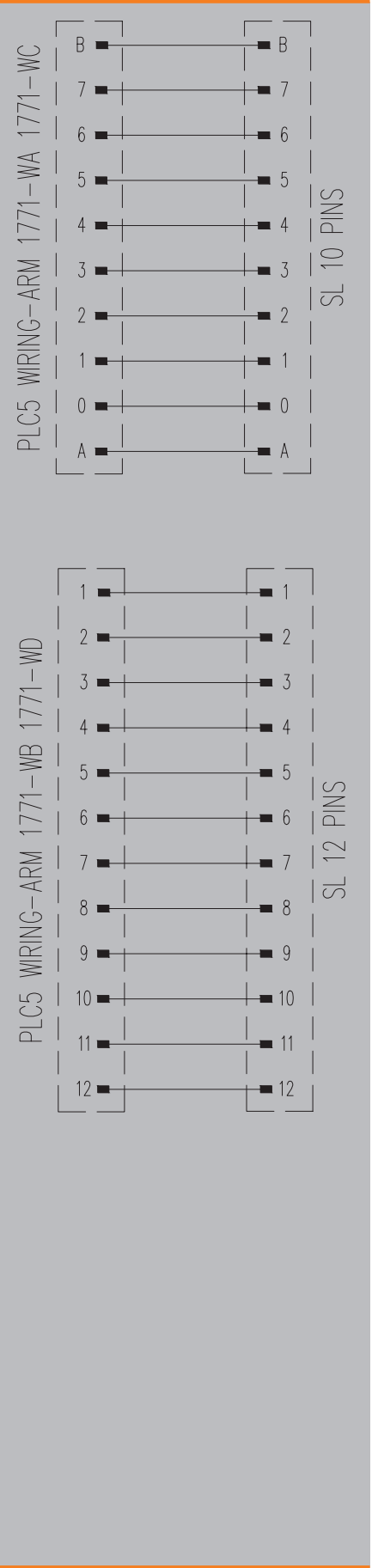
Note	

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**Accessories**

Note	

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### 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
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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

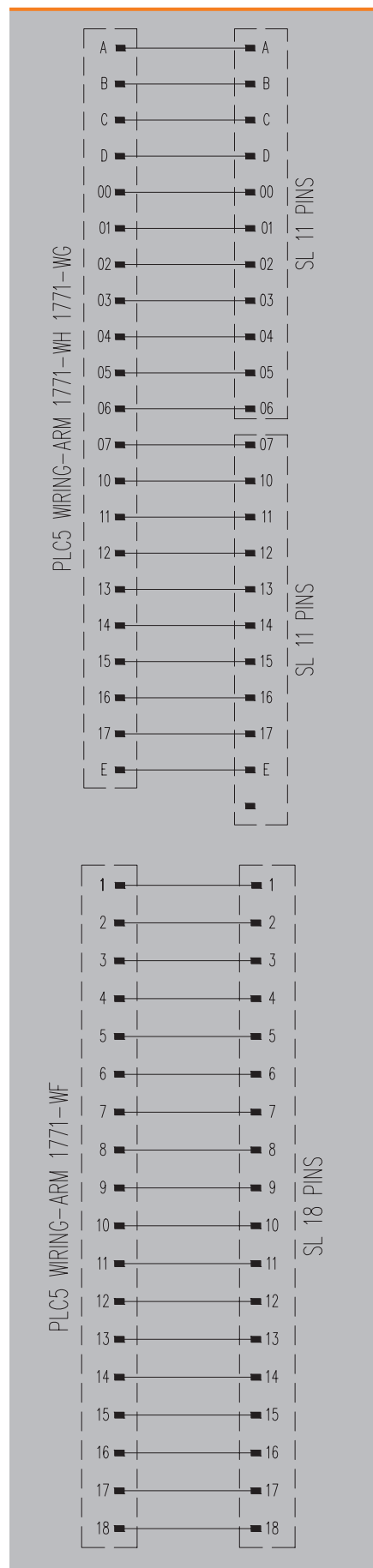
Note	

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#### Accessories

Note	

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Technical data

Machinery

Process

Energy

Transportation

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

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

Dimensions	
Length / Width	269 mm / 32 mm

Dimensions	
Length / Width	269 mm / 32 mm

Note	

Note	

#### Ordering data

Type	Qty.	Order No.
FAD for wiring-arm WN	1	2448670000

Type	Qty.	Order No.
FAD 1771-WN 2BL20 M	1	2448670000

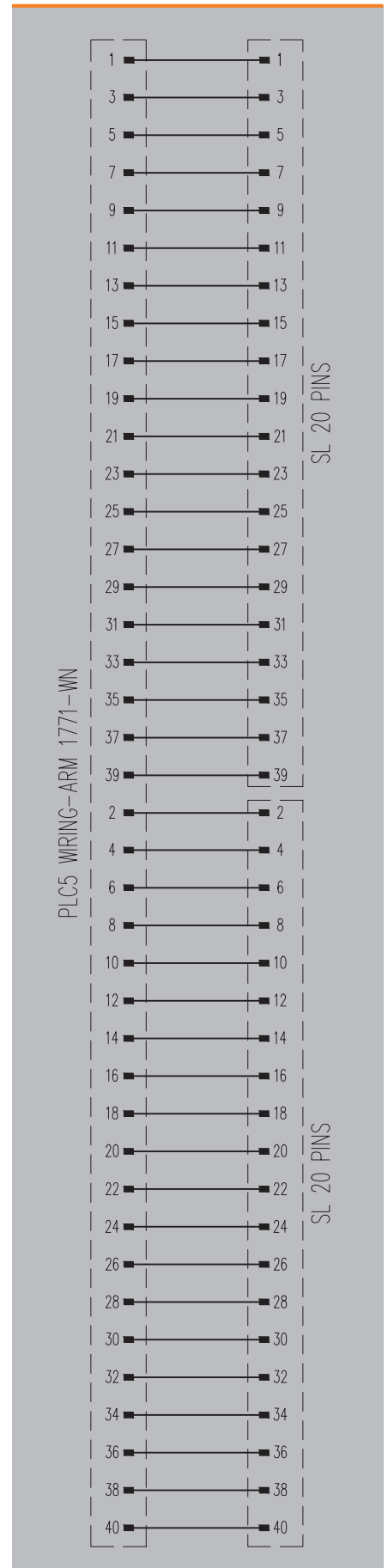
Note	

Note	

#### Accessories

Note	

Note	



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure



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**

<b>Rated data</b>
Operating voltage
Max. current per channel
<b>General data</b>
Ambient temperature (operational)
Storage temperature
Approvals

150 V
5 A
0...50 °C
0...50 °C

<b>Dimensions</b>
Length / Width / Height

266 mm / 29 mm / 61 mm
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<b>Note</b>
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**Ordering data**

12-points (Reference Honeywell TB 621-9949)
22-points (Reference Honeywell TB 621-9950)

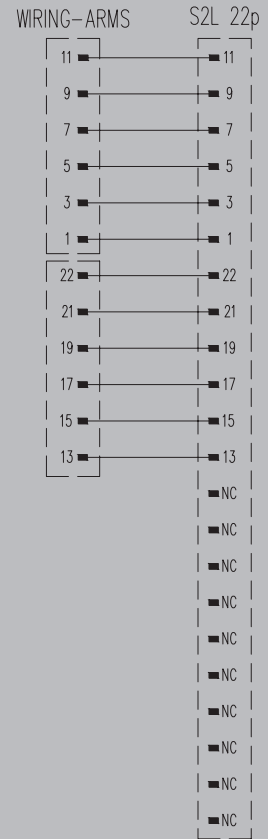
Type	Qty.	Order No.
12-point IPC-620 card adapter	1	<b>6720000787</b>
22-point IPC-620 card adapter	1	<b>6720000788</b>

<b>Note</b>
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**Accessories**

<b>Note</b>
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**12-points IPC620 card adapter**



**22-points IPC620 card adapter**



### 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	125 V
Max. current per channel	3 A
General data	
Ambient temperature (operational)	0...50 °C
Storage temperature	0...50 °C
Approvals	

125 V
3 A
0...50 °C
0...50 °C

Dimensions	
Length / Width / Height	266 mm / 29 mm / 126 mm

266 mm / 29 mm / 126 mm
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Note	

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#### Ordering data

38-points (Reference Honeywell TB 621-9977 or -9976)
--

Type	Qty.	Order No.
38-point IPC-620 card adapter	1	6720001225

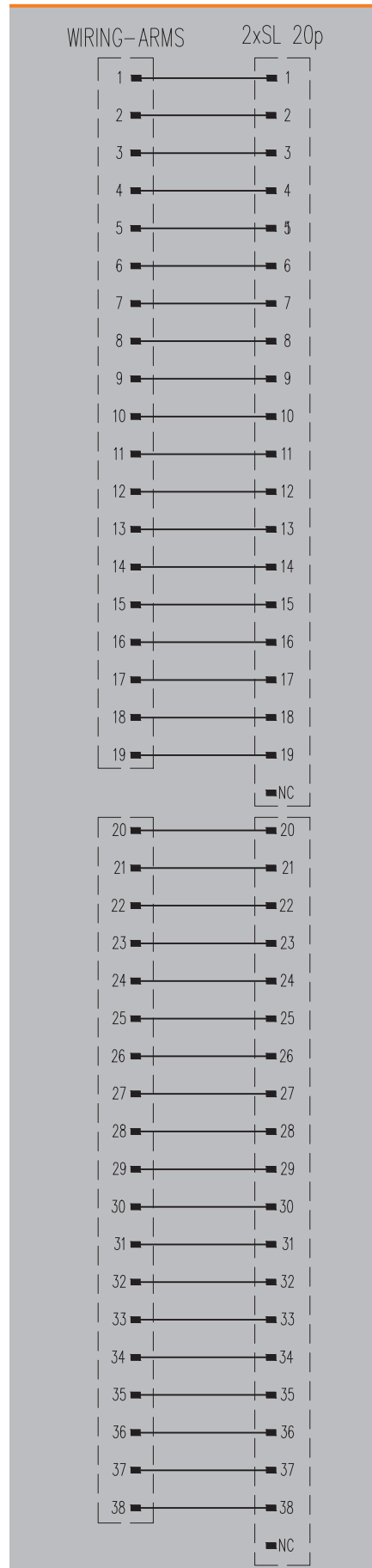
Note	

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#### Accessories

Note	

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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

#### Note

#### Ordering data

24-points (Reference Honeywell TB 621-9954)

Type	Qty.	Order No.
24-point IPC-620 card adapter	1	6720001226

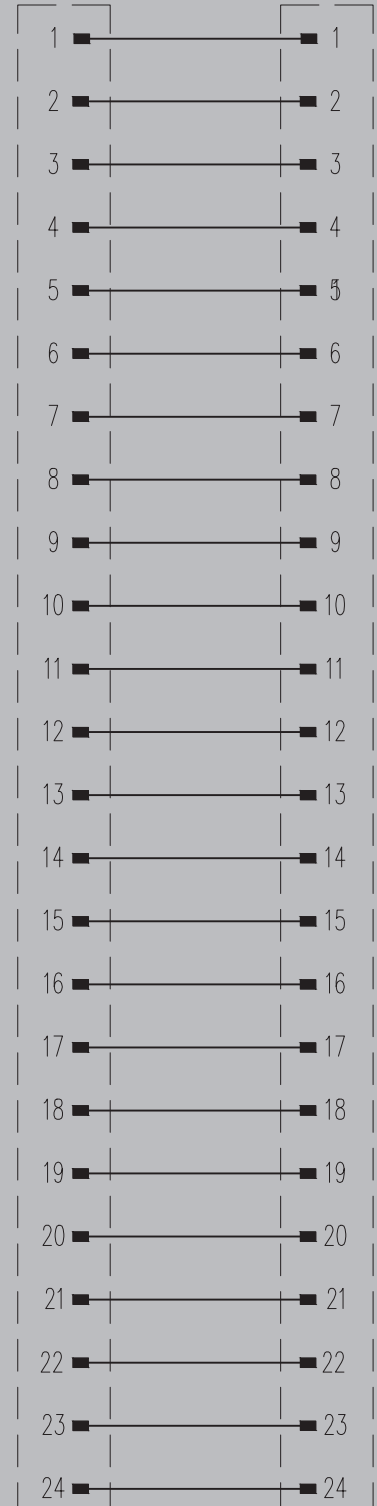
#### Note

#### Accessories

#### 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**

<b>Connected to</b>	Connection to the card
<b>Connection data and functionality</b>	Connection on control side
	Relay type
	Power supply fuse
<b>Input (safety circuit)</b>	
	Rated control voltage
	Power consumption
	Guaranteed current consumption of 24 VDC -10%
	Status indicator
<b>Output (safety circuit)</b>	
	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
<b>General data</b>	
	Ambient temperature (operational)
	Storage temperature
<b>Insulation coordination (EN 50178)</b>	
	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
<b>Dimensions</b>	
	Clamping range, min./max. (field)
	Clamping range, min./max. (supply)
	Mounting rail
	Length x width
<b>Note</b>	

	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
<b>Screw connection</b>	
	0.13 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
	0.13 mm <sup>2</sup> / 6 mm <sup>2</sup>
	TS 35
	376 mm / 168 mm
	For more technical data about SIL relays 1303890000 and 1303760000 check catalog.weidmueller.com

**Ordering data**

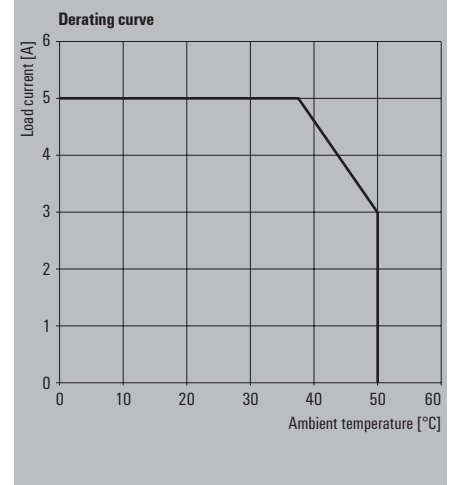
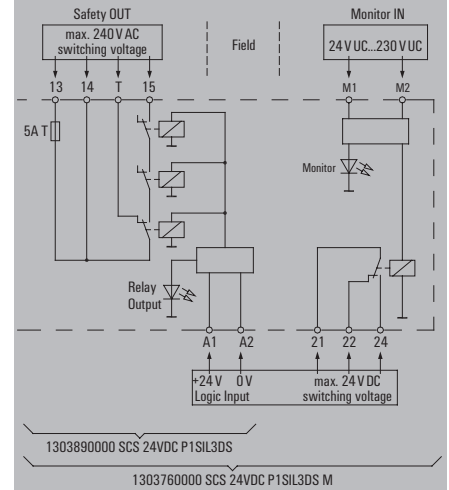
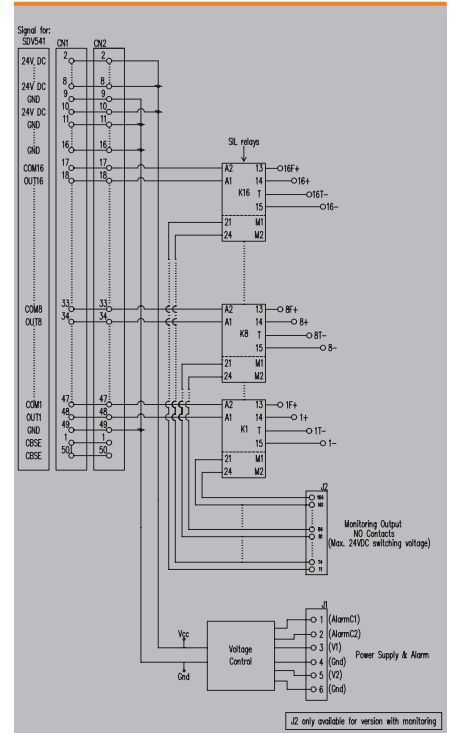
	De-energized to Safe without monitoring
	De-energized to Safe with monitoring
<b>Note</b>	

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)
<b>Note</b>	

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

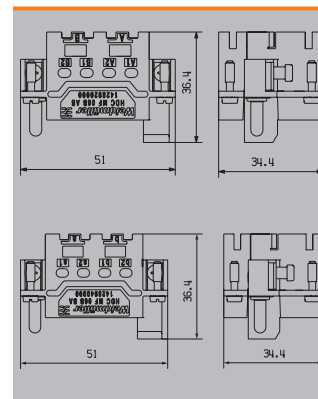
ModuPlug® metal frame

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 mm<sup>2</sup> (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

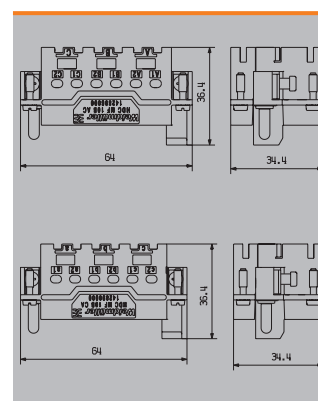
ModuPlug® metal frame

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 mm<sup>2</sup> (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

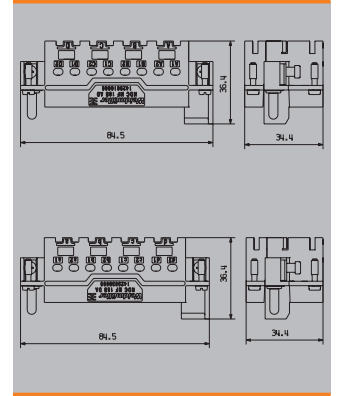
ModuPlug® metal frame

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 mm<sup>2</sup> (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame	Order No.
HDC MF FIXING	1480290000

Size 8

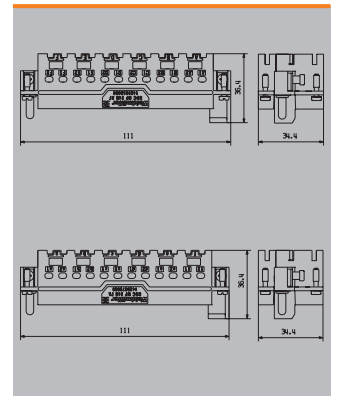
ModuPlug® metal frame

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 mm<sup>2</sup> (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame	Order No.
HDC MF FIXING	1480290000

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure



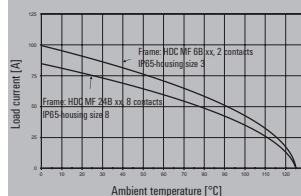
## ModuPlug® HDC MHP 100

### Technical data

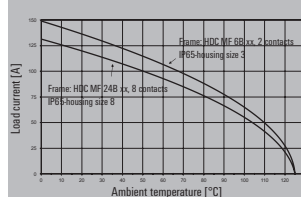
Contact inserts	
No. of poles	2
Rated current (DIN EN 61984)	100 A
Rated voltage (DIN EN 61984)	1000 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 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:

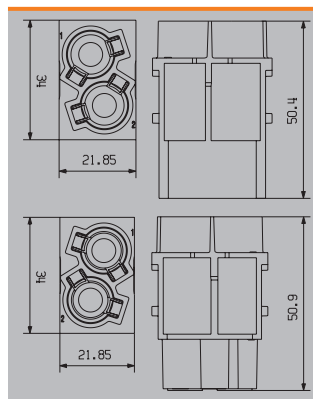


### Crimp connection



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



<b>Crimping tool</b>	
MTR 110	9018020000
<b>Contact Removal Tool</b>	
HDC MHP REMOVAL TOOL	1480380000
<b>Note</b>	Overview of the crimping inserts in chapter J

**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 <sup>12</sup> 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

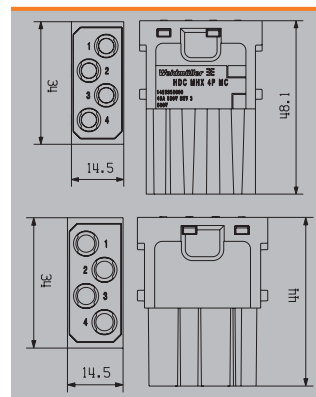
**Note**

**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	



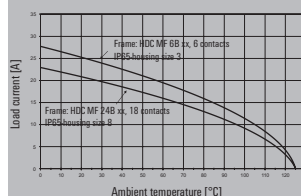
## ModuPlug® HDC MXH 3

### Technical data

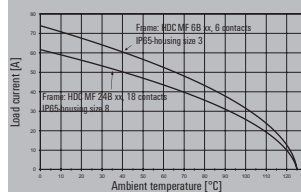
Contact inserts	
No. of poles	3
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	690 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

#### Note

HDC-MXH 3-modules in the IP65-housing,  
Conductor H07V-K1.5:



HDC-MXH 3-modules in the IP65-housing,  
Conductor H07V-K10:

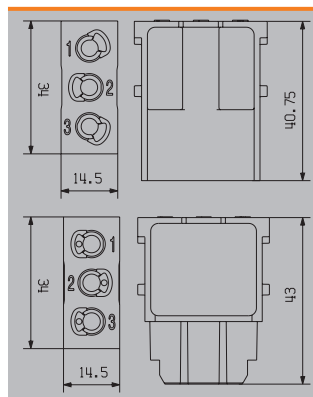


### Crimp connection



Deployment	Type	Order No.
Male	HDC MXH 3 MC	1429340000
Female	HDC MXH 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 MXH SM10.0AG	2494550000	HDC C MXH BM10.0AG	2494560000	2494560000

#### Tools



Crimping tool	
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HX	1002990000
Note	



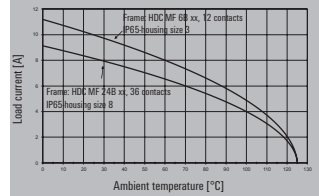
**ModuPlug®**  
**HDC MHE 6P**

**Technical data**

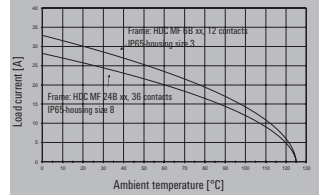
Contact inserts	
No. of poles	6
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	830 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

**Note**

HDC-MHE 6P-modules in the IP65-housing,  
Conductor H05V-K0.5:



HDC-MHE 6P-modules in the IP65-housing,  
Conductor H07V-K4.0:

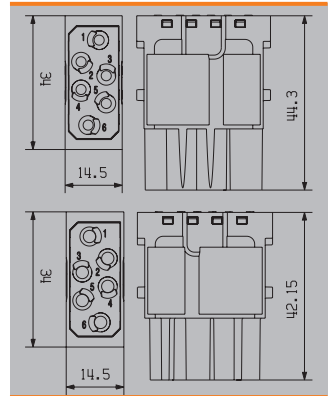


**Crimp connection**



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.	
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 <sup>2</sup>	AWG 20 7.5 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 7.5 mm
1.50 mm <sup>2</sup>	AWG 16 7.5 mm
2.50 mm <sup>2</sup>	AWG 14 7.5 mm
4.00 mm <sup>2</sup>	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	

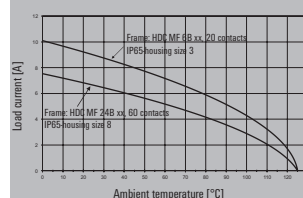
## ModuPlug® HDC MHE 20

### Technical data

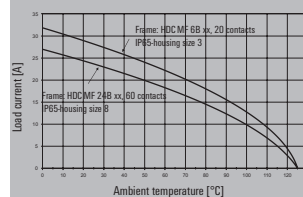
Contact inserts	
No. of poles	20
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	500 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	2

#### Note

HDC-MHE 20-modules in the IP65-housing,  
Conductor H05V-K0.5:



HDC-MHE 20-modules in the IP65-housing,  
Conductor H07V-K4.0:

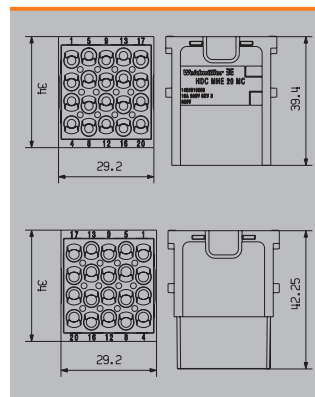


### Crimp connection



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 <sup>2</sup>	AWG 20 7.5 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 7.5 mm
1.50 mm <sup>2</sup>	AWG 16 7.5 mm
2.50 mm <sup>2</sup>	AWG 14 7.5 mm
4.00 mm <sup>2</sup>	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

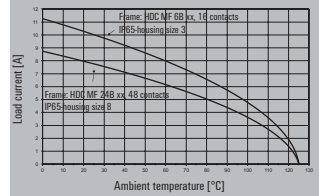
**ModuPlug®**  
**HDC MHE 8**

**Technical data**

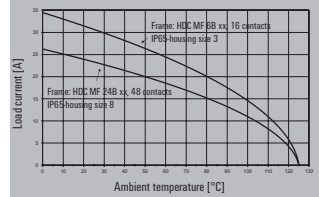
Contact inserts	
No. of poles	8
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	400 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

**Note**

**HDC-MHE 8-modules in the IP65-housing,  
Conductor H05V-K0.5:**



**HDC-MHE 8-modules in the IP65-housing,  
Conductor H07V-K4.0:**

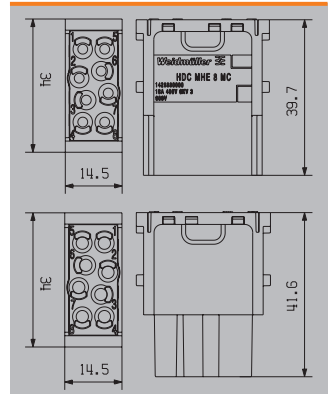


**Crimp connection**



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 <sup>2</sup>	AWG 20 7.5 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 7.5 mm
1.50 mm <sup>2</sup>	AWG 16 7.5 mm
2.50 mm <sup>2</sup>	AWG 14 7.5 mm
4.00 mm <sup>2</sup>	AWG 12 7.5 mm

**Tools**



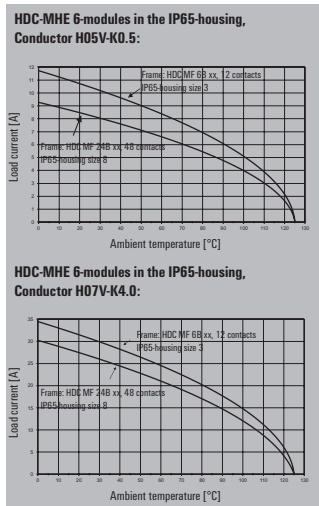
Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

**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 <sup>12</sup> 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**

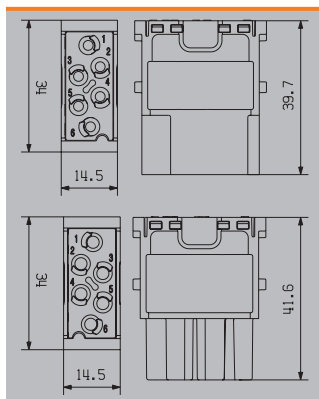


**Crimp connection**



Deployment	Type	Order No.
Male	HDC MHE 6 MC	1429360000
Female	HDC MHE 6 FC	1429370000

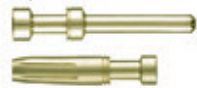
**Note**



**Accessories**

**Crimp contacts**

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	
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 <sup>2</sup>	AWG 20 7.5 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 7.5 mm
1.50 mm <sup>2</sup>	AWG 16 7.5 mm
2.50 mm <sup>2</sup>	AWG 14 7.5 mm
4.00 mm <sup>2</sup>	AWG 12 7.5 mm

**Tools**



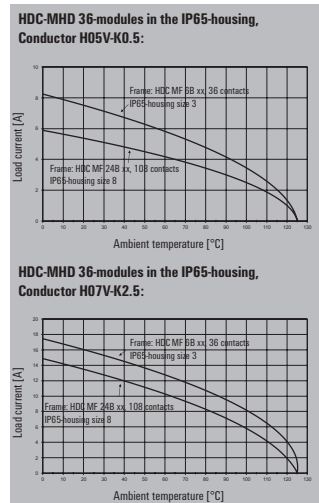
Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

# 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 <sup>12</sup> 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



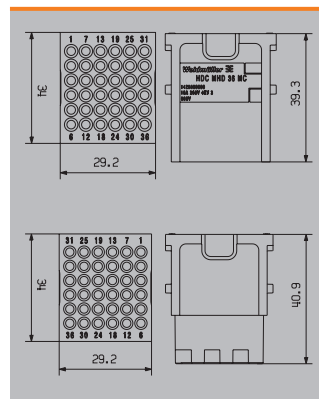
## Modules

### 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 <sup>2</sup>	AWG 26-22 8 mm
0.50 mm <sup>2</sup>	AWG 20 8 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 8 mm
1.50 mm <sup>2</sup>	AWG 16 8 mm
2.50 mm <sup>2</sup>	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	



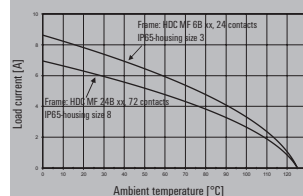
## ModuPlug® HDC MHD 12

### Technical data

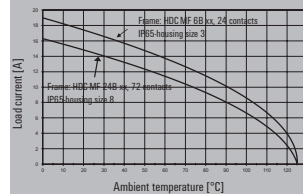
Contact inserts	
No. of poles	12
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 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:

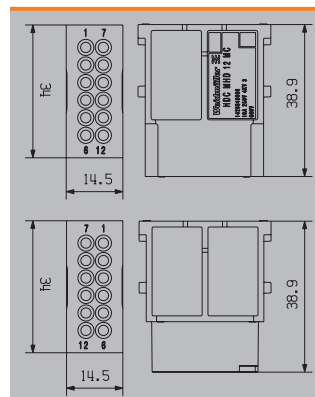


### Crimp connection



Deployment	Type	Order No.
Male	HDC MHD 12 MC	1428840000
Female	HDC MHD 12 FC	1428850000

#### Note



### Accessories

#### Crimp contacts

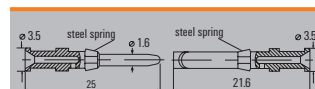
Surface finish gold



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 <sup>2</sup>	AWG 26-22 8 mm
0.50 mm <sup>2</sup>	AWG 20 8 mm
0.75 - 1.00 mm <sup>2</sup>	AWG 18 8 mm
1.50 mm <sup>2</sup>	AWG 16 8 mm
2.50 mm <sup>2</sup>	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

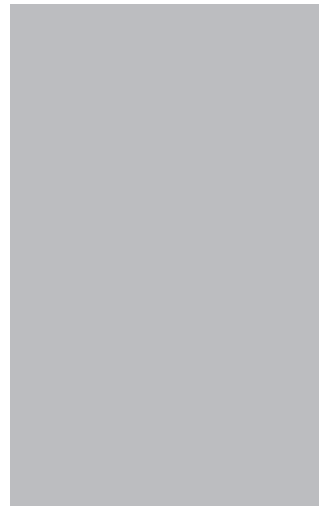
#### Note

**ModuPlug®**  
**HDC MBUS 2**

**Technical data**

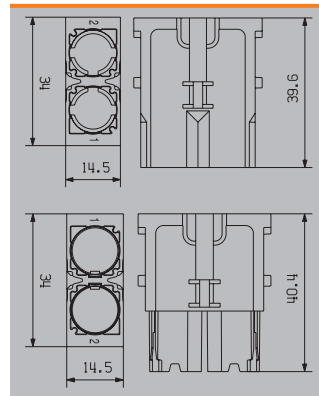
Contact inserts	
No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 <sup>12</sup> Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability 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

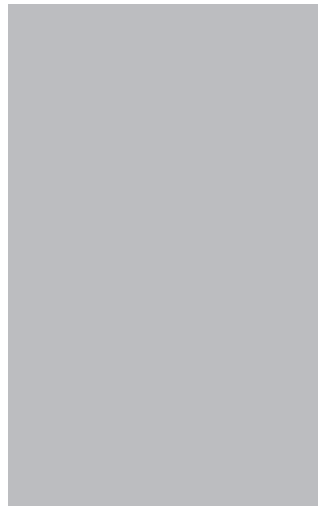
**Note** MCLIP = metal version; PCLIP = plastic version

**ModuPlug®  
HDC MDU**

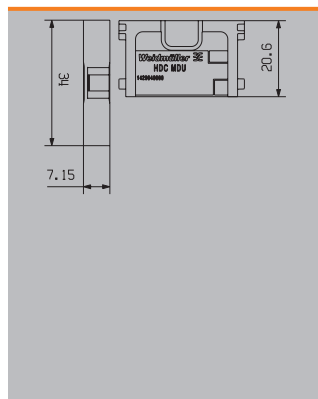
**Technical data**

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 <sup>12</sup> 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	<b>1429040000</b>



**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 <sup>9</sup> 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<sub>A</sub>

## 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 <sup>9</sup> 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

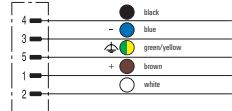
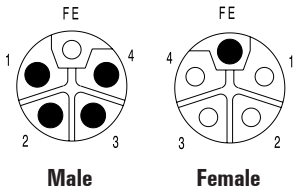
**Note**

Other versions and cable lengths on request

One end without connector

M12

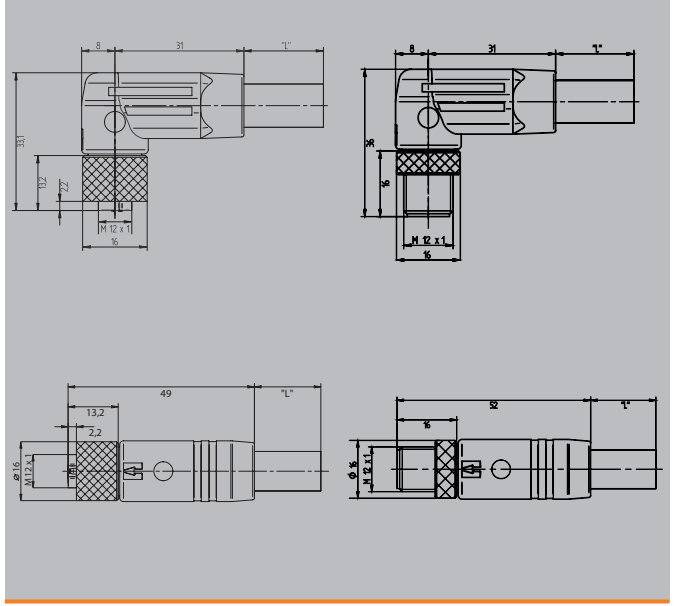
L-coded



Ordering data

Ordering data	Ordering data	Ordering data
<b>Male, straight</b>		
PUR halogen-free 1.5 m	SAIL-M12G-L-1.5P	2455220150
PUR halogen-free 3.0 m	SAIL-M12G-L-3.0P	2455220300
PUR halogen-free 5.0 m	SAIL-M12G-L-5.0P	2455220500
PUR halogen-free 10.0 m	SAIL-M12G-L-10P	2455221000
<b>Male, angled</b>		
PUR halogen-free 1.5 m	SAIL-M12W-L-1.5P	2455240150
PUR halogen-free 3.0 m	SAIL-M12W-L-3.0P	2455240300
PUR halogen-free 5.0 m	SAIL-M12W-L-5.0P	2455240500
PUR halogen-free 10.0 m	SAIL-M12W-L-10P	2455241000
<b>Female, straight</b>		
PUR halogen-free 1.5 m	SAIL-M12BG-L-1.5P	2455330150
PUR halogen-free 3.0 m	SAIL-M12BG-L-3.0P	2455330300
PUR halogen-free 5.0 m	SAIL-M12BG-L-5.0P	2455330500
PUR halogen-free 10.0 m	SAIL-M12BG-L-10P	2455331000
<b>Female, angled</b>		
PUR halogen-free 1.5 m	SAIL-M12BW-L-1.5P	2455200150
PUR halogen-free 3.0 m	SAIL-M12BW-L-3.0P	2455200300
PUR halogen-free 5.0 m	SAIL-M12BW-L-5.0P	2455200500
PUR halogen-free 10.0 m	SAIL-M12BW-L-10P	2455201000
<b>Note</b>		

Dimensioned drawing



Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	50 V
Approvals	cULus

Technical data

Machinery

Process

Energy

Transportation

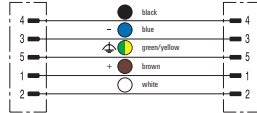
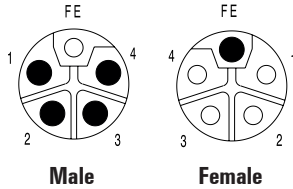
Device Manufacturers

Infrastructure

## Connecting cables

### M12

### L-coded



### Ordering data

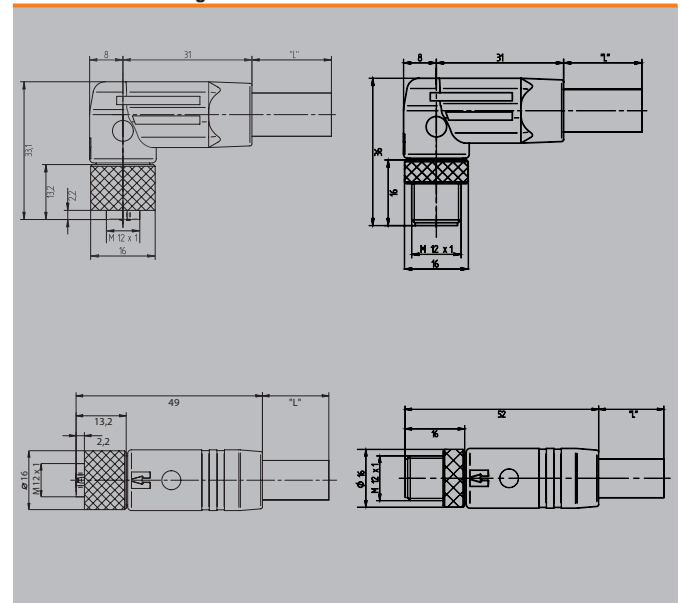
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	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	<b>2455260150</b>
SAIL-M12GM12G-L-3.0P	<b>2455260300</b>
SAIL-M12GM12G-L-5.0P	<b>2455260500</b>
SAIL-M12GM12G-L-10P	<b>2455261000</b>
SAIL-M12GM12W-L-1.5P	<b>2455280150</b>
SAIL-M12GM12W-L-3.0P	<b>2455280300</b>
SAIL-M12GM12W-L-5.0P	<b>2455280500</b>
SAIL-M12GM12W-L-10P	<b>2455281000</b>
SAIL-M12WM12W-L-1.5P	<b>2455300150</b>
SAIL-M12WM12W-L-3.0P	<b>2455300300</b>
SAIL-M12WM12W-L-5.0P	<b>2455300500</b>
SAIL-M12WM12W-L-10P	<b>2455301000</b>
SAIL-M12WM12G-L-1.5P	<b>2455320150</b>
SAIL-M12WM12G-L-3.0P	<b>2455320300</b>
SAIL-M12WM12G-L-5.0P	<b>2455320500</b>
SAIL-M12WM12G-L-10P	<b>2455321000</b>

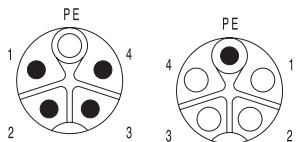
### Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	50 V
Approvals	cULus

### Dimensioned drawing

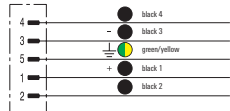


**One end without connector**  
**M12**  
**K-coded**



**Male**

**Female**



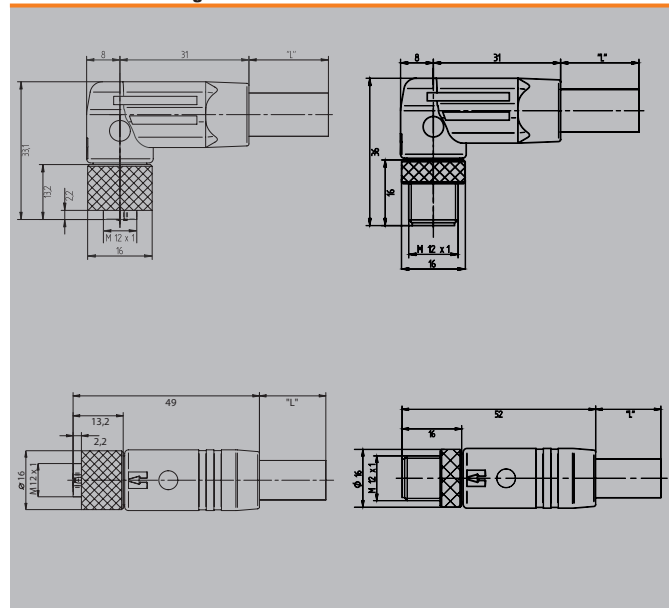
**Ordering data**

Male, straight			
PUR halogen-free	1.5 m	SAIL-M12G-K-1.5P	<b>2455210150</b>
PUR halogen-free	3.0 m	SAIL-M12G-K-3.0P	<b>2455210300</b>
PUR halogen-free	5.0 m	SAIL-M12G-K-5.0P	<b>2455210500</b>
PUR halogen-free	10.0 m	SAIL-M12G-K-10P	<b>2455211000</b>
Male, angled			
PUR halogen-free	1.5 m	SAIL-M12W-K-1.5P	<b>2455230150</b>
PUR halogen-free	3.0 m	SAIL-M12W-K-3.0P	<b>2455230300</b>
PUR halogen-free	5.0 m	SAIL-M12W-K-5.0P	<b>2455230500</b>
PUR halogen-free	10.0 m	SAIL-M12W-K-10P	<b>2455231000</b>
Female, straight			
PUR halogen-free	1.5 m	SAIL-M12BG-K-1.5P	<b>2455150150</b>
PUR halogen-free	3.0 m	SAIL-M12BG-K-3.0P	<b>2455150300</b>
PUR halogen-free	5.0 m	SAIL-M12BG-K-5.0P	<b>2455150500</b>
PUR halogen-free	10.0 m	SAIL-M12BG-K-10P	<b>2455151000</b>
Female, angled			
PUR halogen-free	1.5 m	SAIL-M12BW-K-1.5P	<b>2455190150</b>
PUR halogen-free	3.0 m	SAIL-M12BW-K-3.0P	<b>2455190300</b>
PUR halogen-free	5.0 m	SAIL-M12BW-K-5.0P	<b>2455190500</b>
PUR halogen-free	10.0 m	SAIL-M12BW-K-10P	<b>2455191000</b>
<b>Note</b>			


**Technical data**

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	cULus

**Dimensioned drawing**

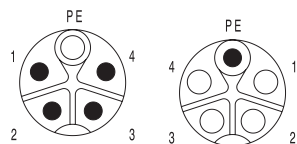




Connecting cables

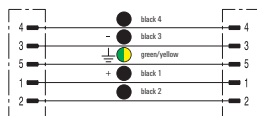
M12

K-coded



Male

Female



Ordering data

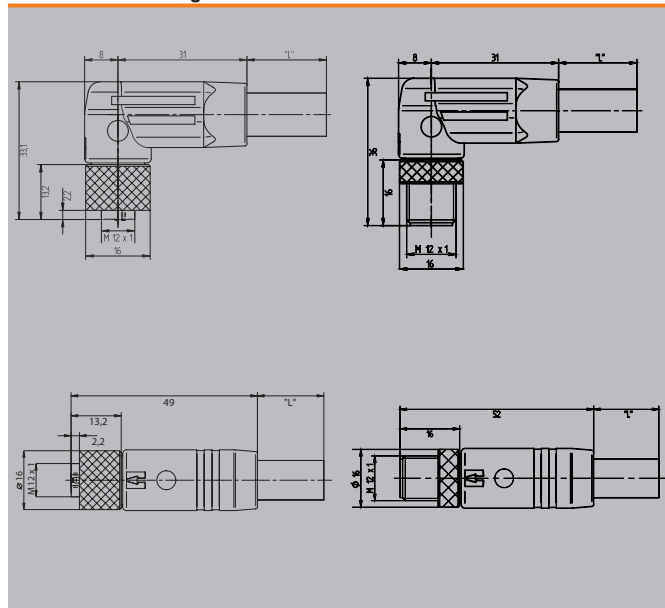
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	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
<b>Note</b>	

SAIL-M12GM12G-K-1.5P	2455250150
SAIL-M12GM12G-K-3.0P	2455250300
SAIL-M12GM12G-K-5.0P	2455250500
SAIL-M12GM12G-K-10P	2455251000
SAIL-M12GM12W-K-1.5P	2455270150
SAIL-M12GM12W-K-3.0P	2455270300
SAIL-M12GM12W-K-5.0P	2455270500
SAIL-M12GM12W-K-10P	2455271000
SAIL-M12WM12W-K-1.5P	2455290150
SAIL-M12WM12W-K-3.0P	2455290300
SAIL-M12WM12W-K-5.0P	2455290500
SAIL-M12WM12W-K-10P	2455291000
SAIL-M12WM12G-K-1.5P	2455310150
SAIL-M12WM12G-K-3.0P	2455310300
SAIL-M12WM12G-K-5.0P	2455310500
SAIL-M12WM12G-K-10P	2455311000


Technical data

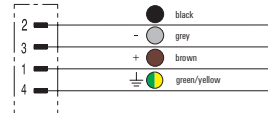
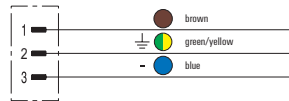
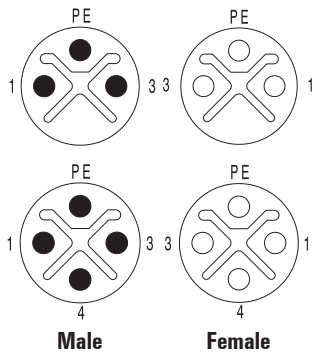
Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	cULus

Dimensioned drawing



- Technical data
- Machinery
- Process
- Energy
- Transportation
- Device Manufacturers
- Infrastructure

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	

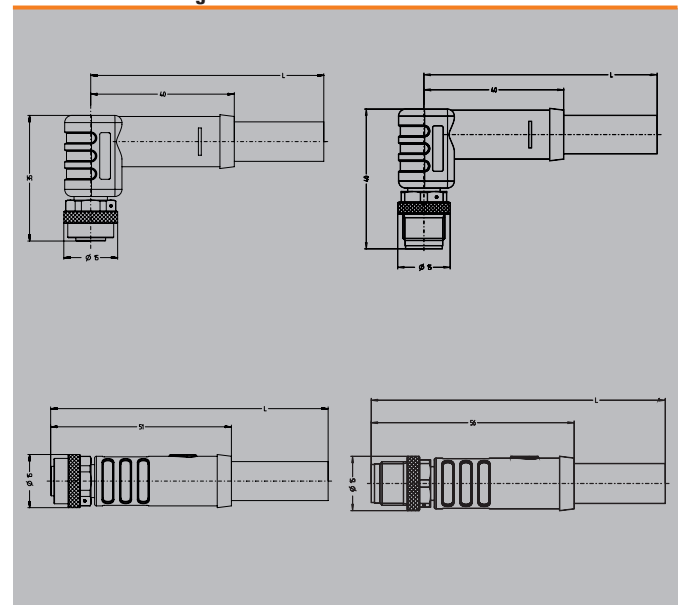
3-pole	
SAIL-M12G-S3-1.5P	2050020150
SAIL-M12G-S3-3.0P	2050020300
SAIL-M12G-S3-5.0P	2050020500
SAIL-M12G-S3-10P	2050021000
SAIL-M12W-S3-1.5P	2050050150
SAIL-M12W-S3-3.0P	2050050300
SAIL-M12W-S3-5.0P	2050050500
SAIL-M12W-S3-10P	2050051000
SAIL-M12BG-S3-1.5P	2049950150
SAIL-M12BG-S3-3.0P	2049950300
SAIL-M12BG-S3-5.0P	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 <sup>2</sup>
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	

Dimensioned drawing



Technical data

Machinery

Process

Energy

Transportation

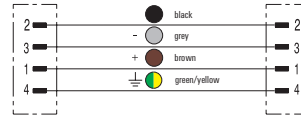
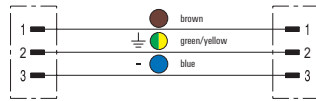
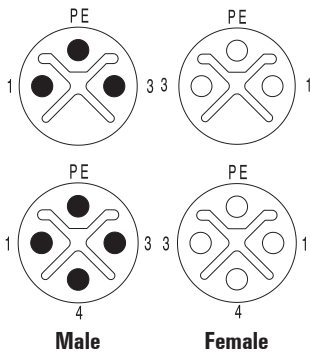
Device Manufacturers

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	

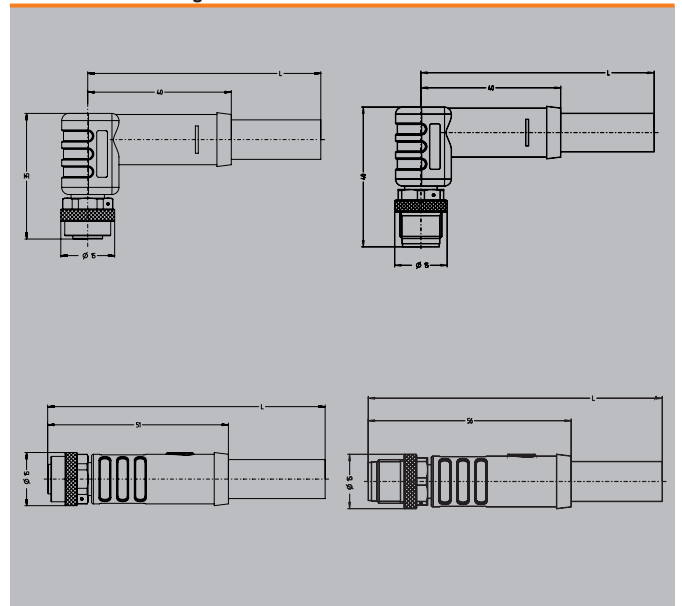
3-pole	
SAIL-M12GM12G-S3-1.5P	2050060150
SAIL-M12GM12G-S3-3.0P	2050060300
SAIL-M12GM12G-S3-5.0P	2050060500
SAIL-M12GM12G-S3-10P	2050061000
3-pole	
SAIL-M12GM12W-S3-1.5P	2050100150
SAIL-M12GM12W-S3-3.0P	2050100300
SAIL-M12GM12W-S3-5.0P	2050100500
SAIL-M12GM12W-S3-10P	2050101000
3-pole	
SAIL-M12WM12W-S3-1.5P	2050150150
SAIL-M12WM12W-S3-3.0P	2050150300
SAIL-M12WM12W-S3-5.0P	2050150500
SAIL-M12WM12W-S3-10P	2050151000
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

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

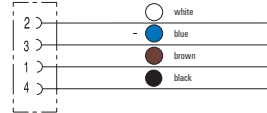
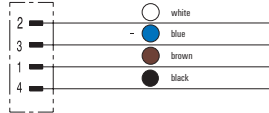
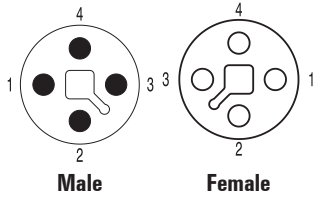
**Technical data**

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm <sup>2</sup>
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 <sup>2</sup>	
SAIL-M12G-T-1.5P	2050640150
SAIL-M12G-T-3.0P	2050640300
SAIL-M12G-T-5.0P	2050640500
SAIL-M12G-T-10P	2050641000
SAIL-M12W-T-1.5P	2050650150
SAIL-M12W-T-3.0P	2050650300
SAIL-M12W-T-5.0P	2050650500
SAIL-M12W-T-10P	2050651000
SAIL-M12BG-T-1.5P	2050490150
SAIL-M12BG-T-3.0P	2050490300
SAIL-M12BG-T-5.0P	2050490500
SAIL-M12BG-T-10P	2050491000
SAIL-M12BW-T-1.5P	2050560150
SAIL-M12BW-T-3.0P	2050560300
SAIL-M12BW-T-5.0P	2050560500
SAIL-M12BW-T-10P	2050561000

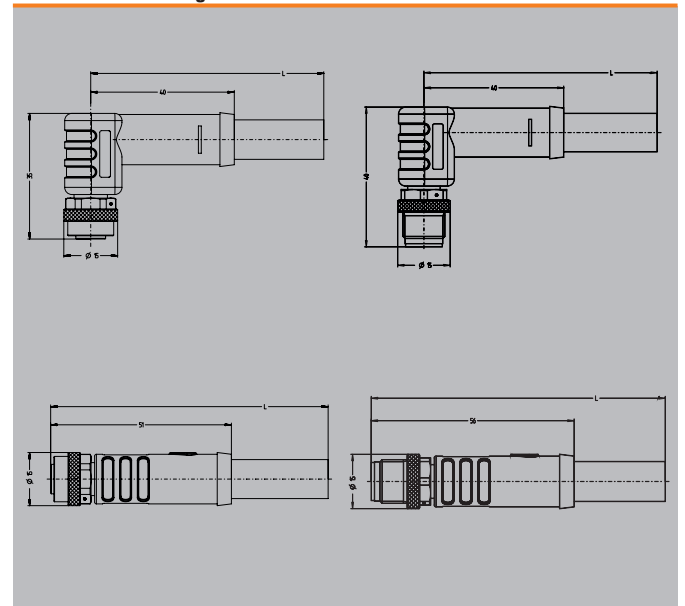
2.5 mm <sup>2</sup>	
SAIL-M12G-T-1.5H	2050700150
SAIL-M12G-T-3.0H	2050700300
SAIL-M12G-T-5.0H	2050700500
SAIL-M12G-T-10H	2050701000
SAIL-M12W-T-1.5H	2050710150
SAIL-M12W-T-3.0H	2050710300
SAIL-M12W-T-5.0H	2050710500
SAIL-M12W-T-10H	2050711000
SAIL-M12BG-T-1.5H	2050680150
SAIL-M12BG-T-3.0H	2050680300
SAIL-M12BG-T-5.0H	2050680500
SAIL-M12BG-T-10H	2050681000
SAIL-M12BW-T-1.5H	2050690150
SAIL-M12BW-T-3.0H	2050690300
SAIL-M12BW-T-5.0H	2050690500
SAIL-M12BW-T-10H	2050691000

3.0 mm <sup>2</sup>	
SAIL-M12G-T-1.5H	2050700150
SAIL-M12G-T-3.0H	2050700300
SAIL-M12G-T-5.0H	2050700500
SAIL-M12G-T-10H	2050701000
SAIL-M12W-T-1.5H	2050710150
SAIL-M12W-T-3.0H	2050710300
SAIL-M12W-T-5.0H	2050710500
SAIL-M12W-T-10H	2050711000
SAIL-M12BG-T-1.5H	2050680150
SAIL-M12BG-T-3.0H	2050680300
SAIL-M12BG-T-5.0H	2050680500
SAIL-M12BG-T-10H	2050681000
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

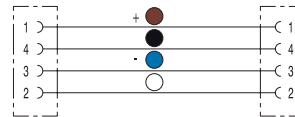
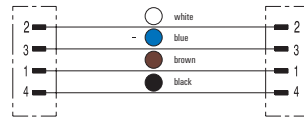
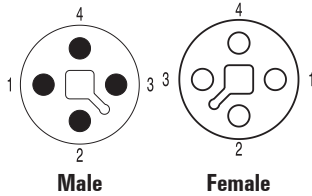
Transportation

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
<b>Note</b>	

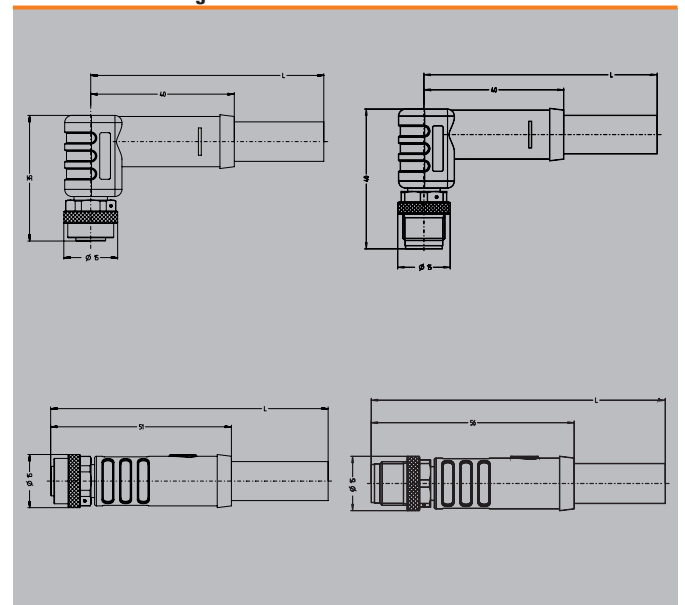
1.5 mm <sup>2</sup>	
SAIL-M12GM12G-T-1.5P	2050760150
SAIL-M12GM12G-T-3.0P	2050760300
SAIL-M12GM12G-T-5.0P	2050760500
SAIL-M12GM12G-T-10P	2050761000
SAIL-M12GM12W-T-1.5P	2050830150
SAIL-M12GM12W-T-3.0P	2050830300
SAIL-M12GM12W-T-5.0P	2050830500
SAIL-M12GM12W-T-10P	2050831000
SAIL-M12WM12W-T-1.5P	2050860150
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 <sup>2</sup>	
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**

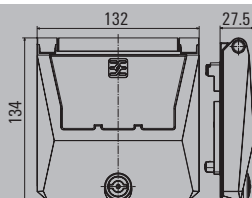


## FrontCom® Vario

### 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
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#### Bar (for mounting single insert plates)

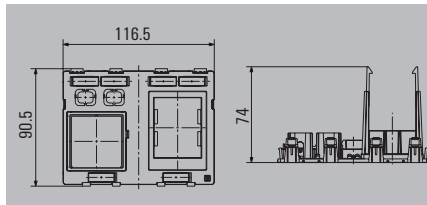
Partition

IE-FC-DF-IPH	1	2003340000
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#### 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

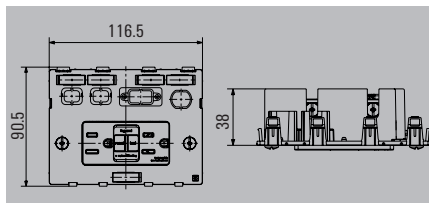
**Note**

**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 <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>

**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**

<b>Inserts, Signal</b>	
D-Sub, 9-pole, female/female	
D-Sub, 9-pole, female / male	
D-Sub, 9-pole, female / solder connection	
<b>Fuse inserts</b>	3 A
<b>Inserts, Data</b>	
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	
<b>Markers</b>	
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**

**Note**

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

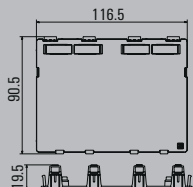
Infrastructure

**FrontCom® Vario**

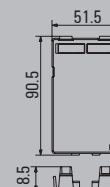
**Insert plates**

- IP20

**blank double plate**



**blank single plate**



**Technical data**

Material	
Ambient temperature (operational)	
Approvals	
<b>Note</b>	

Material	Polycarbonate PC
Ambient temperature (operational)	-40 °C...70 °C
Approvals	
<b>Note</b>	

Material	Polycarbonate PC
Ambient temperature (operational)	-40 °C...70 °C
Approvals	CURUS; GERMLLOYD
<b>Note</b>	

**Ordering data**

	unshielded
<b>Note</b>	

Type	Qty.	Order No.
IE-FC-DIP-BP	1	<b>2004890000</b>

Type	Qty.	Order No.
IE-FC-IP-BP	1	<b>1450710000</b>

**Accessories**

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

<b>Note</b>	
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<b>Note</b>	
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<b>Note</b>	
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

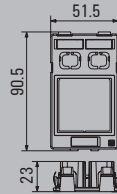
Infrastructure

**FrontCom® Vario**

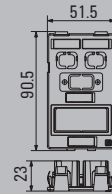
**Insert plates**

- 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
<b>Note</b>

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
<b>Note</b>

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	
<b>Note</b>	

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



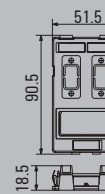
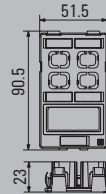
**FrontCom® Vario**

**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
<b>Note</b>

Polycarbonate PC
4
1
-40 °C...70 °C
CURUS; GERMLLOYD

Polycarbonate PC
2
1
-40 °C...70 °C
CURUS; GERMLLOYD

**Ordering data**

	shielded
	unshielded
<b>Note</b>	

Type	Qty.	Order No.
IE-FC-SP-PWS/4ST	1	1450570000
IE-FC-IP-PWS/4ST	1	1450640000

Type	Qty.	Order No.
IE-FC-SP-PWS/2D9	1	1450610000
IE-FC-IP-PWS/2D9	1	1450680000

**Accessories**

<b>Inserts, Power</b>	Socket IT/EU
<b>Inserts, Data</b>	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
<b>Markers</b>	for touch-safe protection and insert plates
<b>Touch-safe protection</b>	Touch-safe protection
<b>Inserts, Signal</b>	D-Sub, 9-pole, female/female
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection

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

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

<b>Note</b>
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Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Infrastructure

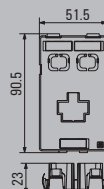


### FrontCom® Vario

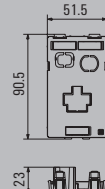
#### Insert plates

- IP20

#### 1 x power, 2 x data



#### 1 x power, 1 x 3A fuse, 1 x data



#### 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
Insert fuse
Ambient temperature (operational)
Approvals
<b>Note</b>

Polycarbonate PC
2
1
-40 °C...70 °C
CURUS; GERMLOYD

Polycarbonate PC
1
1
-40 °C...70 °C

#### Ordering data

	shielded
	unshielded
<b>Note</b>	

Type	Qty.	Order No.
IE-FC-SP-PWU/2ST	1	1450620000
IE-FC-IP-PWU/2ST	1	1450700000

For US socket the touch-safe protection is mandatory

Type	Qty.	Order No.
IE-FC-IP-PWU/1ST/CB	1	1543710000

Touch-safe protection is obligatory when using the US socket

#### Accessories

Inserts, Signal	
	D-Sub, 9-pole, female/female
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection
	D-Sub, 25-pole, female/female
	D-Sub, 25-pole, female/male
	D-Sub, 25-pole, female / solder connection
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, Power	
Fuse inserts	
	3 A
<b>Note</b>	

Type	Qty.	Order No.
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
IE-FCI-PWS-US	1	1450800000

Type	Qty.	Order No.
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
IE-FCI-PWS-US	1	1450800000
IE-FCI-PWCB-3A	1	1543690000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

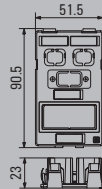
Infrastructure

## FrontCom® Vario

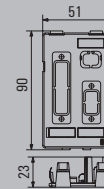
### Insert plates

- IP20

### 2 x data, 2 x signal



### 1 x data, 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  
 Insert fuse  
 Ambient temperature (operational)  
 Approvals

#### Note

Polycarbonate PC  
 2  
 2  
 -40 °C...70 °C  
 CURUS; GERMLLOYD

Polycarbonate PC  
 1  
 1  
 1  
 -40 °C...70 °C  
 CURUS; GERMLLOYD

### Ordering data

shielded  
 unshielded

#### Note

Type	Qty.	Order No.
IE-FC-SP-2ST/2D9	1	1450590000
IE-FC-IP-2ST/2D9	1	1450670000

Type	Qty.	Order No.
IE-FC-SP-1ST/1D9/1D25	1	1450580000
IE-FC-IP-1ST/1D9/1D25	1	1450650000

### Accessories

#### Inserts, Signal

D-Sub, 9-pole, female/female  
 D-Sub, 9-pole, female / male  
 D-Sub, 9-pole, female / solder connection  
 D-Sub, 25-pole, female/female  
 D-Sub, 25-pole, female/male  
 D-Sub, 25-pole, female / solder connection

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-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-D25-FM	1	1450890000
IE-FCI-D25-FS	1	1450900000
IE-FCI-D25-FF	1	1450880000

#### 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

Type	Qty.	Order No.
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

Type	Qty.	Order No.
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

#### Markers

for touch-safe protection and insert plates

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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ESG 7/20 SIRIUS MC NE WS	200	1736181044
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#### Touch-safe protection

Touch-safe protection

IE-FC-PWPC	1	1450820000
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IE-FC-PWPC	1	1450820000
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#### Inserts, Power

#### Fuse inserts

3 A

#### Note

Technical data

Machinery

Process

Energy

Transportation

Device  
Manufacturers

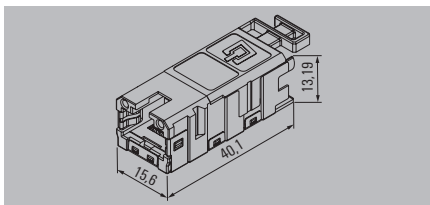
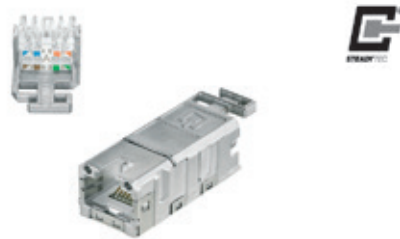
Infrastructure

**Data inserts**

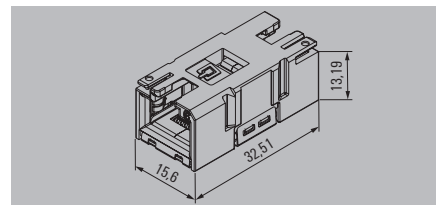
**RJ45**

- Cat. 6<sub>A</sub>
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

**Module**



**Coupling**



**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
<b>Note</b>

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
<b>Note</b>

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
<b>Note</b>

**Ordering data**

tool-free	
	TIA-A. Cat. 6 <sub>A</sub>
	TIA-B. Cat. 6 <sub>A</sub>
	PROFINET Cat. 5
	Coupling
<b>Note</b>	

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
<b>Note</b>		

Type	Qty.	Order No.
IE-BI-RJ45-C	10	1962840000
<b>Note</b>		

**Accessories**

Tools	
Optional pressing tool	
<b>Note</b>	

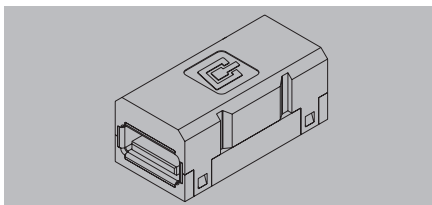
Type	Qty.	Order No.
PWZ RJ45	1	1118040000
<b>Note</b>		

Type	Qty.	Order No.
<b>Note</b>		

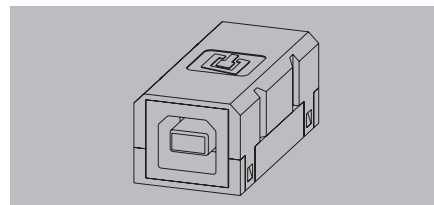
**Data inserts**  
**USB**

- Cat. 6<sub>A</sub>
- 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



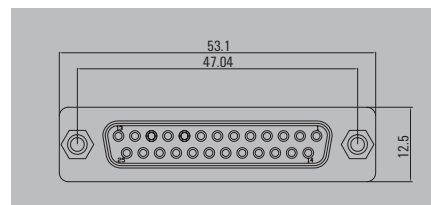
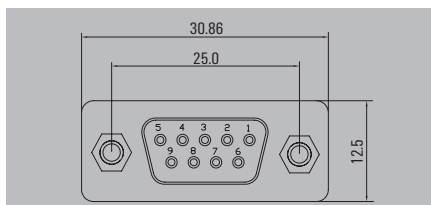
Signal inserts

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 <sub>eff</sub> / 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 <sub>eff</sub> / 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 <sub>eff</sub> / 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.
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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
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

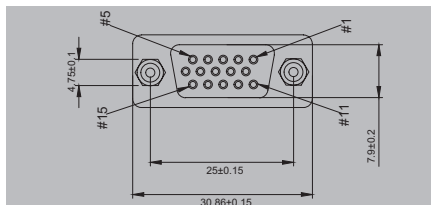
Signal inserts

- IP20

HDMI



HD15 / VGA



Technical data

Protection degree
Housing main material
No. of poles
Housing surface
Contact surface
Contact resistance
Insulation resistance
Dielectric strength, contact / contact
Ambient temperature (operational)
Approvals
<b>Note</b>

IP20
PVC casting
9
Gold-plated
-15 °C...50 °C

IP20
25
Gold over nickel
1000 MΩ at 500 V DC
1000 V <sub>eff</sub> / 1 min
-55 °C...105 °C
GERMLLOYD

Ordering data

<b>Note</b>

Type	Qty.	Order No.
IE-FCHDMI-FF	1	2003390000

Type	Qty.	Order No.
IE-FCHD15-FF	1	1556290000

Accessories

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Type	Qty.	Order No.

Type	Qty.	Order No.

<b>Note</b>
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

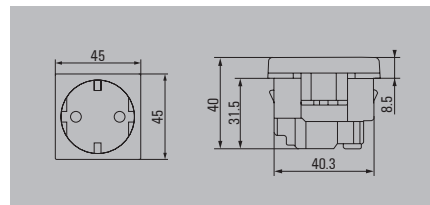
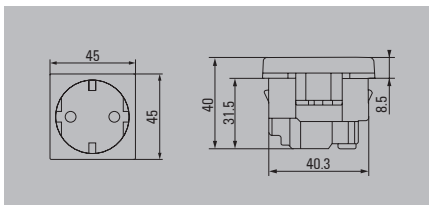
**Power inserts**  
**Power sockets**

- IP20

**Germany, white**



**Germany, orange**



**Technical data**

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Line connection cross-section	1.5 ... 1.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 1.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 2.5 mm <sup>2</sup>
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Line connection cross-section	1.5 ... 1.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 1.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 2.5 mm <sup>2</sup>
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	PUSH IN
Line connection cross-section	1.5 ... 1.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 1.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 2.5 mm <sup>2</sup>
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

**Ordering data**

Type	Qty.	Order No.
IE-FCI-PWB-DE	1	1450730000
<b>Note</b>		

Type	Qty.	Order No.
IE-FCI-PWB-DE	1	1450730000
<b>Note</b>		

Type	Qty.	Order No.
IE-FCI-PWB-DE-OR	1	1554000000
<b>Note</b>		

**Accessories**

Type	Qty.	Order No.
<b>Note</b>		

Type	Qty.	Order No.
<b>Note</b>		

Type	Qty.	Order No.
<b>Note</b>		

<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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Technical data

Machinery

Process

Energy

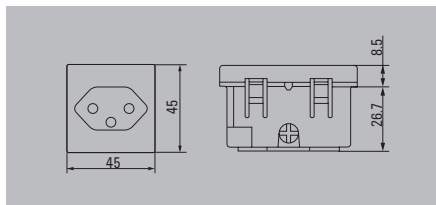
Transportation

Device Manufacturers

Infrastructure



Switzerland

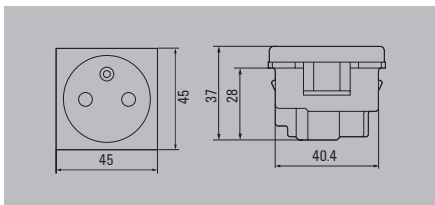


IP20
Polycarbonate PC
PUSH IN
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
10 mm
250 V
10 A
-5 °C...50 °C
GERMLLOYD

Type	Qty.	Order No.
IE-FCI-PWB-CH	1	1450780000

Type	Qty.	Order No.

France, white

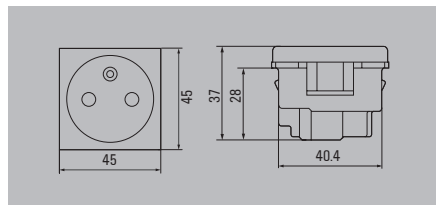


IP20
Polycarbonate PC
PUSH IN
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
10 mm
250 V
16 A
-5 °C...50 °C
GERMLLOYD

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 <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
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

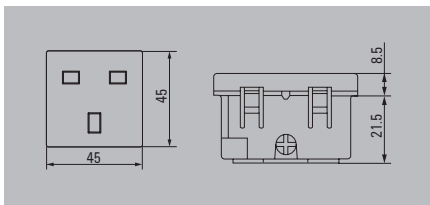
Device Manufacturers

Infrastructure

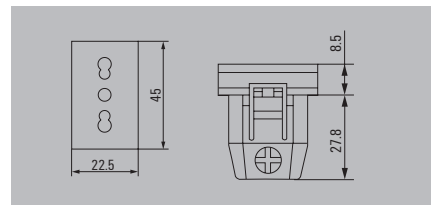
**Power inserts**  
**Power sockets**

- 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 <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 4 mm <sup>2</sup>
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	13 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 4 mm <sup>2</sup>
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 4 mm <sup>2</sup>
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

**Ordering data**

Type	Qty.	Order No.
IE-FCI-PWB-GB	1	1450770000
<b>Note</b>		

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
<b>Note</b>		

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
<b>Note</b>		

**Accessories**

Type	Qty.	Order No.
<b>Note</b>		

Type	Qty.	Order No.
<b>Note</b>		

Type	Qty.	Order No.
<b>Note</b>		

<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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Technical data

Machinery

Process

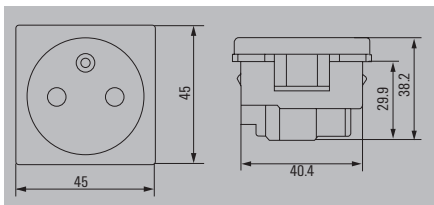
Energy

Transportation

Device Manufacturers

Infrastructure

Czech Republic

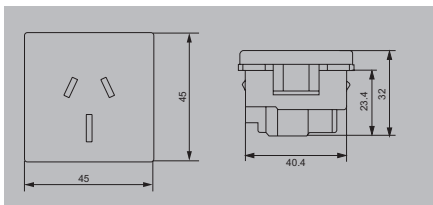


IP20
Polycarbonate PC
PUSH IN
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 1.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
12 mm
250 V
16 A
-5 °C...50 °C

Type	Qty.	Order No.
IE-FCI-PWB-CZ	1	2426700000

Type	Qty.	Order No.

Australia, 15 A

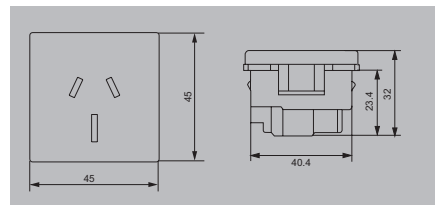


IP20
Polycarbonate PC
Screw connection
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
9 mm
240 V
15 A
-5 °C...50 °C
GERMLLOYD

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 <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
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

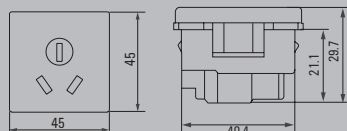
Device Manufacturers

Infrastructure

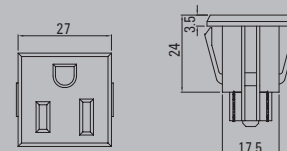
**Power inserts**  
**Power sockets**

- 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 <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 4 mm <sup>2</sup>
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	10 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
<b>Note</b>	

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Solder connection
Line connection cross-section	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 4 mm <sup>2</sup>
Stripping length	9 mm
Rated voltage (AC)	125 V
Rated current	15 A
Ambient temperature (operational)	-20 °C...85 °C
Approvals	GERMLLOYD; UR
<b>Note</b>	

Protection degree	IP20
Housing main material	PA 66
Type of connection	Solder connection, FS 4.8 x 0.8
Line connection cross-section	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
finely stranded without wire-end ferrule	1.5 ... 4 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 4 mm <sup>2</sup>
Stripping length	9 mm
Rated voltage (AC)	125 V
Rated current	15 A
Ambient temperature (operational)	-20 °C...85 °C
Approvals	GERMLLOYD; UR
<b>Note</b>	

**Ordering data**

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
IE-FCI-PWB-CN	1	1450790000
<b>Note</b>		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
IE-FCI-PWS-US	1	1450800000
For US socket the touch-safe protection is mandatory		

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
VFSKHV/1,5-2,5/485	100	1491920000

**Accessories**

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
-------------	-------------	------------------

<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
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<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
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<b>Note</b>
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<b>Note</b>
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<b>Note</b>
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Technical data

Machinery

Process

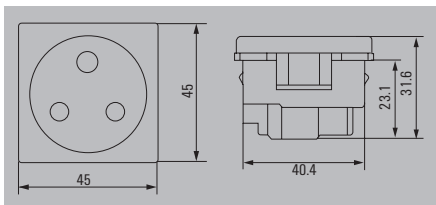
Energy

Transportation

Device  
Manufacturers

Infrastructure

India



IP20
Polycarbonate PC
Screw connection
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 2.5 mm <sup>2</sup>
1.5 ... 4 mm <sup>2</sup>
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

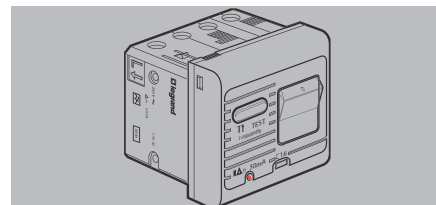
Infrastructure

Power inserts

RCBO

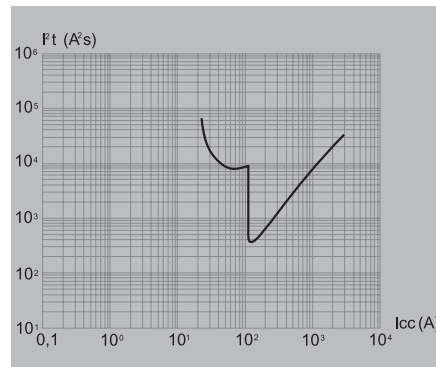
- IP20

RCBO



Technical data

Ambient temperature (operational)	-5 °C...40 °C
Operating voltage	230 V AC
Rated current	16 A
I $\Delta$ m	500 A
I $\Delta$ n	30 mA
Triggering characteristic	Typ C
Type of connection	Screw connection
Line connection cross-section	
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
finely stranded with wire-end ferrule	1.5 ... 2.5 mm <sup>2</sup>
Conductor connection cross-section, solid	1.5 ... 2.5 mm <sup>2</sup>
<b>Note</b>	



Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-RCBO	1	1534250000
<b>Note</b>		

Accessories

Type	Qty.	Order No.

**Note**

Technical data

Machinery

Process

Energy

Transportation

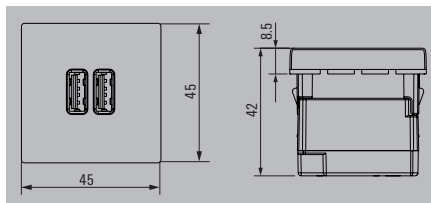
Device Manufacturers

Infrastructure

**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<sup>2</sup>  
 1.5 ... 2.5 mm<sup>2</sup>  
 1.5 ... 2.5 mm<sup>2</sup>  
 6 mm

Note

**Ordering data**

Type	Qty.	Order No.
IE-FCI-PWB-2USB-A-5V	1	2505070000

Note

**Accessories**

Type	Qty.	Order No.
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Note

Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



Infrastructure



Technical data

Machinery

Process

Energy

Transportation

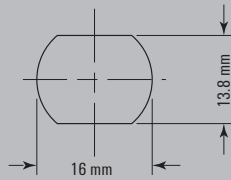
Device  
Manufacturers

Infrastructure

### 3A fuse

- IP20

### 3A fuse



#### Technical data

Operating voltage  
Rated current  
Type of connection

32 V DC, 250 V AC  
3 A  
Flat-blade receptacles 6.5 mm

#### Note

#### Ordering data

#### Note

Type	Qty.	Order No.
IE-FC-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



Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers

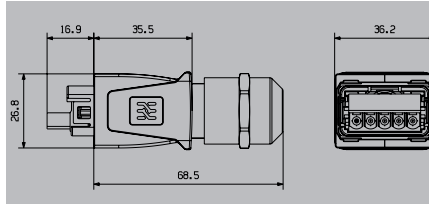


Infrastructure



Plug PushPull Power

Plug Power 24 V



Technical data

General data	
Protection degree	IP65, IP67
Connector standard	in accordance with PROFINET specification
Ambient temperature (operational)	-40 °C...70 °C
No. of poles	5
Wire connection cross-section, flexible, min./max.	0.75 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
Sheath diameter, min. / max.	6 mm / 13 mm
Connection	Tension clamp
Approvals	
Material properties	
Housing base material	Zinc diecast, nickel-plated
Sealing material	NBR
Cable sealing material	EPDM
Contact material / Contact surface	Copper alloy / Gold over nickel
UL 94 flammability rating	V-2
Pollution severity level	2
Plugging cycles	≥ 100
Electrical properties*	
Current-carrying capacity at 50 °C	16 A
Rated voltage	24 V
Note	

Ordering data - Sets

Type	Qty.	Order No.
IE-PS-VAPM-5P-2.5	1	2465440000
Note		

Ordering data - Empty housings

Type	Qty.	Order No.
Note		

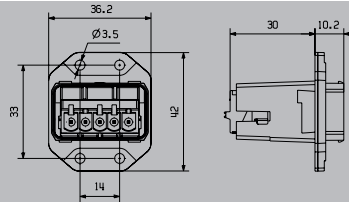
Note		
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## Flanges PushPull Power

## 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 mm<sup>2</sup> / 2.5 mm<sup>2</sup>  
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

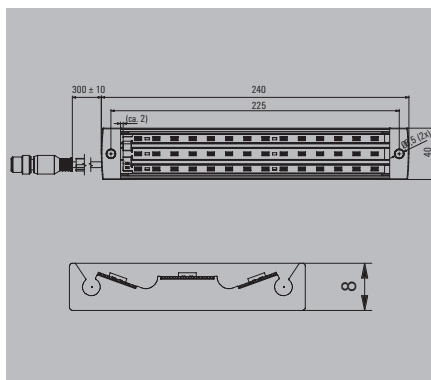
Type	Qty.	Order No.
IE-BP-VAPP	10	1068930000
IE-BP-VAPP-DC	10	2494060000

## Note



## Weidmüller Industry Light

### WIL Standard



### Ordering data

	0.3 m cable length
<b>Note</b>	

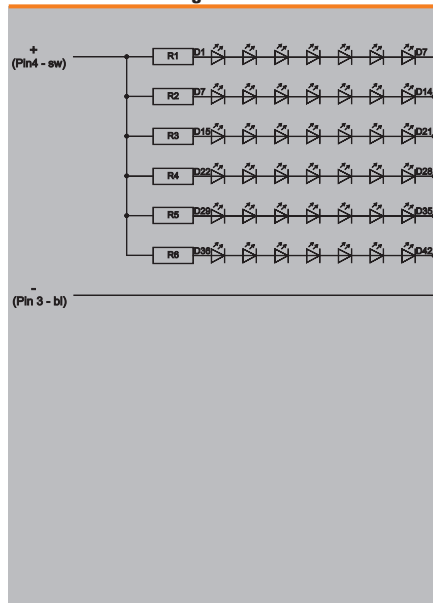
### WIL Standard

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

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

### LUF 10.00/./90V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm<sup>2</sup>.

- 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°

### Technical data

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>		
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>		
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	20-4	
<b>General data</b>			
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 mm<sup>2</sup>  
 UL: 600 V / 58 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

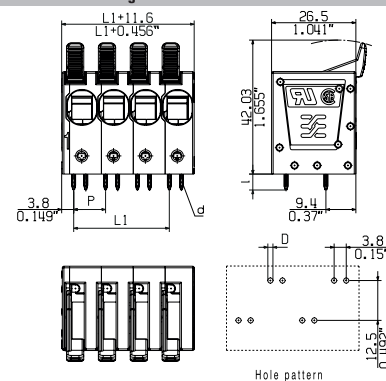
#### Note:

- 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 10.00/./90V



#### Dimensioned drawing



### Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

### 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	<b>2453690000</b>
3	20.00	0.787	40	<b>2453700000</b>
4	30.00	1.181	30	<b>2453710000</b>
5	40.00	1.575	30	<b>2453720000</b>
6	50.00	1.969	25	<b>2453730000</b>
7	60.00	2.362	20	<b>2453740000</b>
8	70.00	2.756	10	<b>2453750000</b>
9	80.00	3.150	10	<b>2453760000</b>
10	90.00	3.543	1	<b>2453770000</b>
11	100.00	3.937	1	<b>2453780000</b>
12	110.00	4.331	1	<b>2453790000</b>



Infrastructure



Device  
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

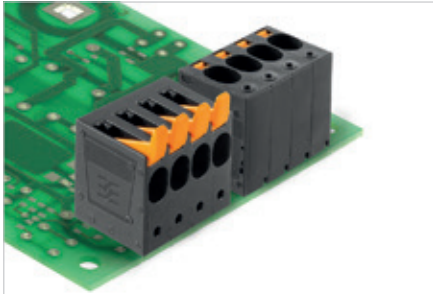
Energy

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 mm<sup>2</sup>.

- 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 <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>630</b>	<b>690 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>300</b>	<b>150 600</b>
<b>Rated current</b>	<b>A</b>	<b>61</b>	<b>61 5</b>
<b>AWG conductor</b>	<b>AWG</b>		<b>20-4</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
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 mm<sup>2</sup>  
 UL: 300 V / 61 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

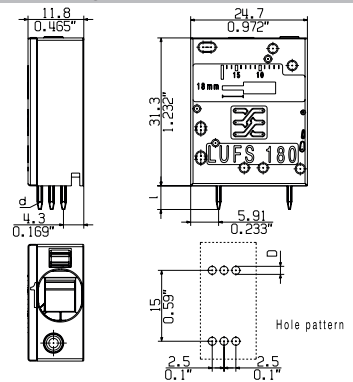
Note:

- 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		
<b>Pitch</b>		<b>10.00 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	<b>2491810000</b>

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>



LUFS 10.00/./180V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm<sup>2</sup>.

- 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

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>58</b>	<b>58 5</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	20-4	
<b>General data</b>			
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 mm<sup>2</sup>  
 UL: 600 V / 58 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

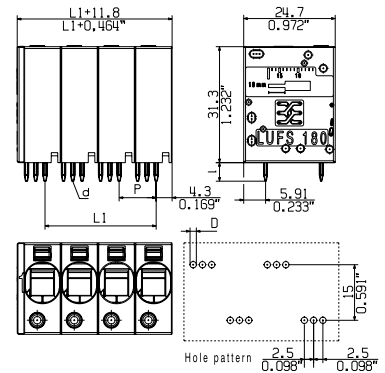
Note:

- 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.

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

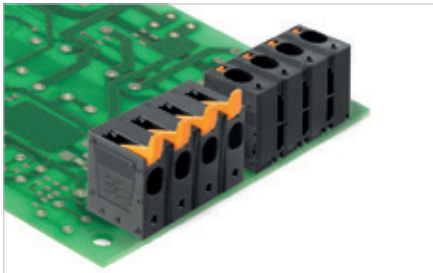
Energy

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 mm<sup>2</sup> 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

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>66</b>	<b>66 10</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
<b>General data</b>			
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 mm<sup>2</sup>  
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

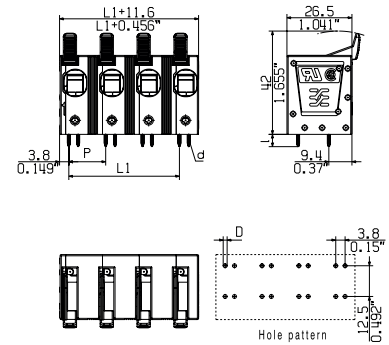
Note:

- 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

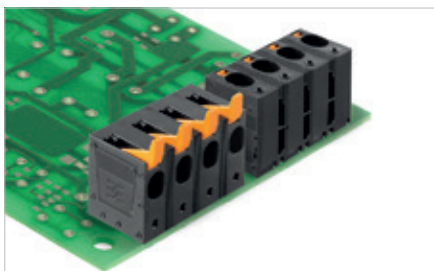
Note: Refer to the Accessories chapter for additional accessories.

<b>Screwdriver</b>		<b>Order No.</b>
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
<b>Test plug</b>		
	PS 2.0 MC	<b>0310000000</b>

Ordering data

<b>Solder pin length</b>		<b>5 mm</b>		
<b>Colour</b>		<b>Black</b>		
<b>Pitch</b>		<b>15.00 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	<b>2491800000</b>
3	30.00	1.181	40	<b>2491900000</b>
4	45.00	1.772	30	<b>2491910000</b>
5	60.00	2.362	25	<b>2491920000</b>
6	75.00	2.953	20	<b>2491930000</b>
7	90.00	3.543	10	<b>2491940000</b>
8	105.00	4.134	10	<b>2491950000</b>

LUF 15.00/./90V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm<sup>2</sup> 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 <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section		III	III
Overtoltage category		III	II
Pollution severity		3	2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000</b>
Rated impulse voltage	kV	8	8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>66</b>	<b>66</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	<b>10</b>
<b>CSA (Use Group)</b>		<b>B</b>	<b>C</b>
Rated voltage	V	600	600
Rated current	A	66	66
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 mm<sup>2</sup>  
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

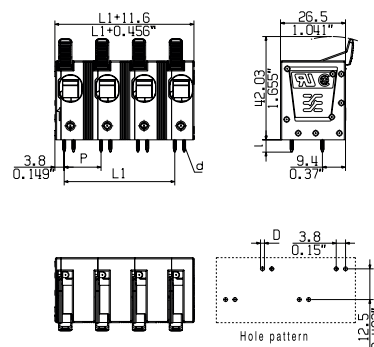
Note:

- 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

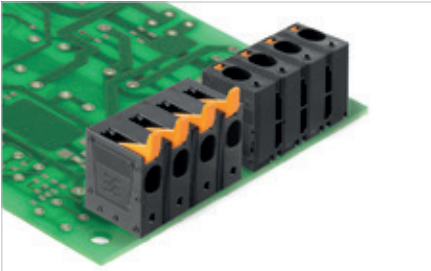
Energy

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 mm<sup>2</sup> 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**

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.5...16	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...16</b>	
Stranded H07 V-R	mm <sup>2</sup>	6...16	
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...16	
Flexible with ferrule	mm <sup>2</sup>	0.5...16	
Ferrule with plastic collar	mm <sup>2</sup>	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>	<b>76</b>	<b>76</b>
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 600</b>
<b>Rated current</b>	<b>A</b>	<b>66</b>	<b>66 10</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>20-4</b>	
<b>CSA (Use Group)</b>	<b>B C D</b>	<b>B</b>	<b>C D</b>
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
<b>General data</b>			
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 mm<sup>2</sup>  
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

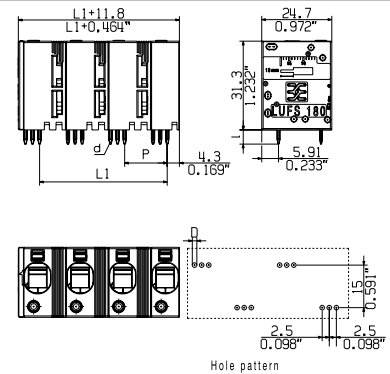
**Note:**

- 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.

<b>Screwdriver</b>		<b>Order No.</b>
	SDIS 0.8X4.0X100	<b>9008400000</b>
	SDS 0.8X4.0X100	<b>9008340000</b>
<b>Test plug</b>		
	PS 2.0 MC	<b>0310000000</b>

**Ordering data**

<b>Solder pin length</b>		<b>5 mm</b>		
<b>Colour</b>		<b>Black</b>		
<b>Pitch</b>		<b>15.00 mm</b>		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	<b>2491820000</b>
3	30.00	1.181	40	<b>2492220000</b>
4	45.00	1.772	30	<b>2492230000</b>
5	60.00	2.362	25	<b>2492240000</b>
6	75.00	2.953	20	<b>2492250000</b>
7	90.00	3.543	10	<b>2492260000</b>
8	105.00	4.134	10	<b>2492270000</b>



Infrastructure



Device  
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

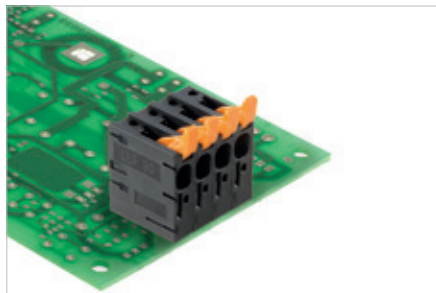
Energy

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 mm<sup>2</sup>.

- 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 <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>		
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600 1000</b>
Rated impulse voltage	kV	6	6 6
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
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 mm<sup>2</sup>  
UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmuller.com](http://catalog.weidmuller.com)

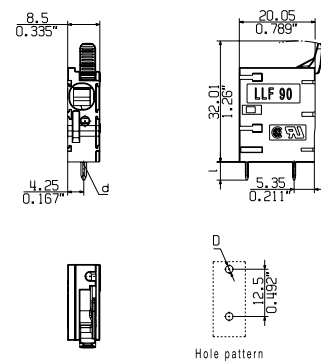
#### Note:

- 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

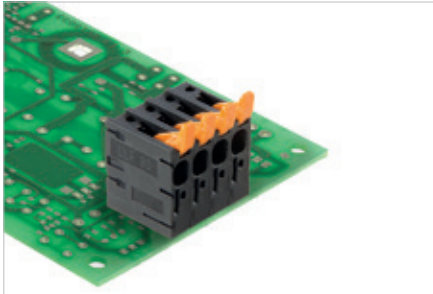
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	<b>9008380000</b>
	SDS 0.5X3.0X80	<b>9008320000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

### Ordering data

Solder pin length		5 mm	
Colour		Black	
Pitch		7.50 mm <sup>2</sup>	
Pol.	L1	(inch)	Qty. Order No.
1	0.00	0.000	400 <b>2471520000</b>

LLF 7.50/./90V



High-performance PCB terminal with PUSH IN connection technology for conductor cross-sections up to 6 mm<sup>2</sup>.

- 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

<b>In compliance with IEC 60664-1 / IEC 61984</b>			
Clamping range, max.	mm <sup>2</sup>	0.25...6	
<b>Solid core H05(07) V-U</b>	<b>mm<sup>2</sup></b>	<b>0.5...6</b>	
Stranded H07 V-R			
Flexible H05(07) V-K	mm <sup>2</sup>	0.5...6	
Flexible with ferrule	mm <sup>2</sup>	0.25...6	
Ferrule with plastic collar	mm <sup>2</sup>	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
<b>Rated current, max.</b>	<b>A</b>		
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
<b>Rated voltage</b>	<b>V</b>	<b>1000</b>	<b>1000 1000</b>
Rated impulse voltage	kV	8	8 8
<b>UL / CUL (Use Group)</b>		<b>B</b>	<b>C D</b>
<b>Rated voltage</b>	<b>V</b>	<b>600</b>	<b>600</b>
<b>Rated current</b>	<b>A</b>	<b>35</b>	<b>35</b>
<b>AWG conductor</b>	<b>AWG</b>	<b>24-10</b>	
<b>CSA (Use Group)</b>		<b>B</b>	<b>C D</b>
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
<b>General data</b>			
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 mm<sup>2</sup>  
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to [catalog.weidmueller.com](http://catalog.weidmueller.com)

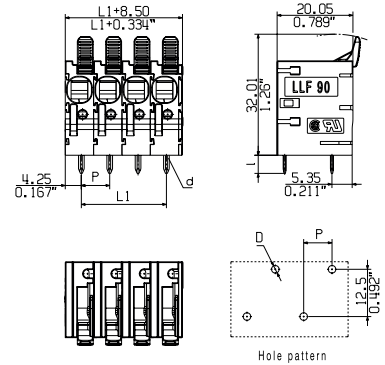
Note:

- 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	<b>9008380000</b>
	SDS 0.5X3.0X80	<b>9008320000</b>
Test plug		
	PS 2.0 MC	<b>0310000000</b>

Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch 7.50 mm <sup>2</sup>				
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	200	<b>2471530000</b>
3	15.00	0.590	200	<b>2472090000</b>
4	22.50	0.885	150	<b>2472100000</b>
5	30.00	1.180	100	<b>2472110000</b>
6	37.50	1.475	50	<b>2472120000</b>
7	45.00	1.770	50	<b>2472130000</b>
8	52.50	2.065	50	<b>2472140000</b>
9	60.00	2.360	50	<b>2472150000</b>
10	67.50	2.655	30	<b>2472160000</b>
11	75.00	2.950	30	<b>2472170000</b>
12	82.50	3.245	30	<b>2472180000</b>

### Stripping and crimping machines

- Purely electrically driven for processing harmonised PVC conductors
- Crimping range from 0.5 - 2.5 mm<sup>2</sup> (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 <sup>2</sup>
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 <sup>2</sup>
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 mm<sup>2</sup>
- 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 <sup>2</sup>
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 <sup>2</sup>	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
<b>Note</b>			

**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 <sup>2</sup>	Al mm <sup>2</sup>	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
<b>Note</b>					

**Indent crimp inserts**

- For crimping cable lugs DIN 46234
- Pin cable lugs DIN 46230
- Connector DIN 46341 Part 1

Cu mm <sup>2</sup>	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
<b>Note</b>			



### 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		
Punching force	30 kN	
Length x width x height / Weight	440 / 124 / 81 / 2800	
Weight incl. battery		

#### Ordering data

Version	
Note	

Type	Qty.	Order No.
EPG CUT 40	1	2453830000
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		

Cutting ranges	Ø mm <sup>2</sup>
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



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

<b>VT CTB</b>
3 V DC...48 V DC
LED
0...65 Hz
IP40
EN 61010-1, EN 61326
50 g
Note

<b>VT</b>
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
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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
<b>Note</b>

<b>VT CL</b>
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

<b>VT LCL</b>
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

<b>Version</b>
<b>Note</b>

Type	Qty.	Order No.
VT CL	1	2436660000

Type	Qty.	Order No.
VT LCL	1	2436670000

Accessories

<b>Note</b>
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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
<b>Note</b>

<b>VT M</b>
Visual & acoustic
IP65
1.5 V type AAA battery
DIN EN 61010-1, DIN EN 61326
60 g
<b>Note</b>

<b>VT CTL</b>
Visual & acoustic
IP44
1.5 V type AAA battery
DIN EN 61010-1
140 g
<b>Note</b>

**Ordering data**

<b>Version</b>
<b>Note</b>

Type	Qty.	Order No.
VT M	1	2436680000
<b>Note</b>		

Type	Qty.	Order No.
VT CTL	1	2436690000
<b>Note</b>		

**Accessories**

<b>Note</b>
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Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000
<b>Note</b>		

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000
<b>Note</b>		

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	<b>2448880000</b>	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	<b>2448880000</b>	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

Energy

Transportation

Transportation

Device Manufacturers

Device Manufacturers

Infrastructure

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	<b>1426210000</b>	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	<b>1426210000</b>	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	<b>1426210000</b>	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	<b>1426210000</b>	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	<b>1426210000</b>	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

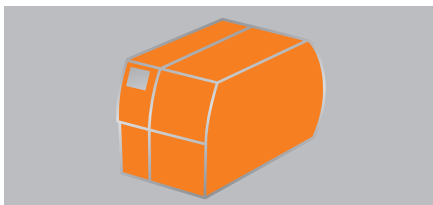
Transportation

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
<b>Note</b>	

Ordering data

Type	Qty.	Order No.
THM PLUS M	1	2448870000
<b>Note</b>		

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
<b>Note</b>				

Technical data

Machinery



Process



Energy



Transportation



Device  
Manufacturers



Infrastructure



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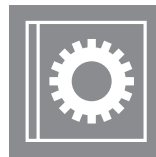
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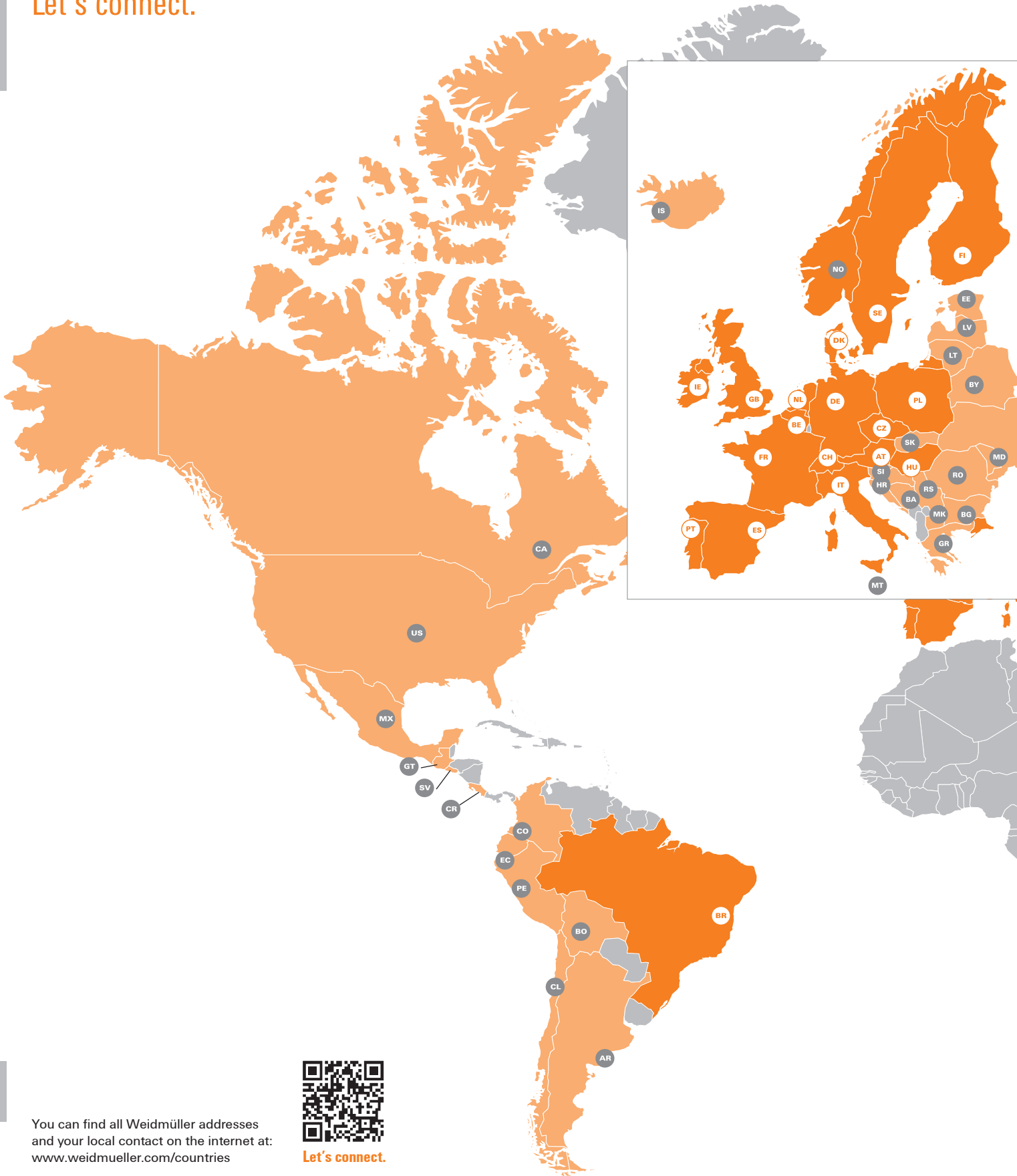
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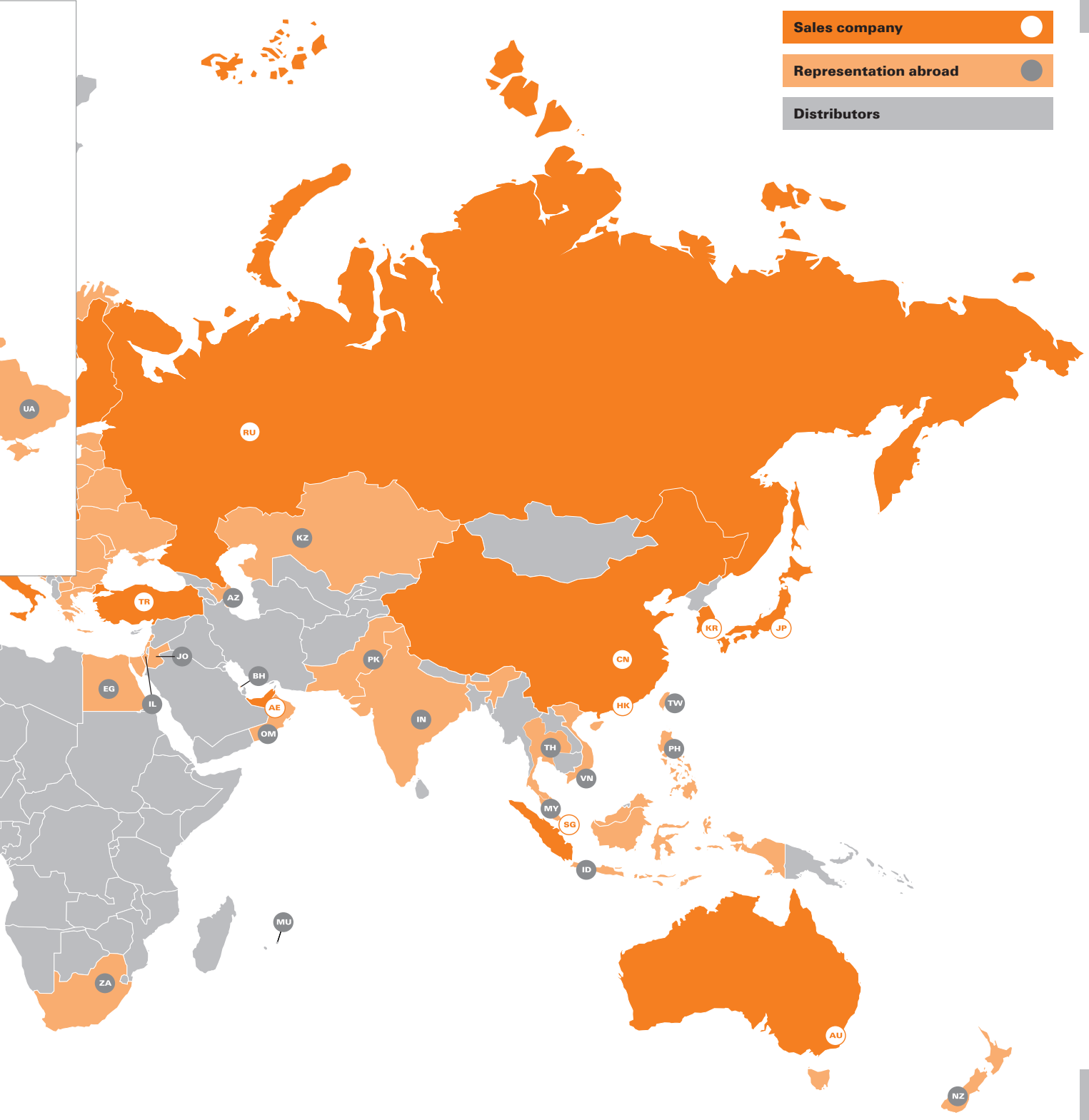


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