

**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**
VARIRECTOR PU II for reliable protection in 230 V power supply networks

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



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

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

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

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

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

News Overview

Connectivity

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



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

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



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

Device Connectivity



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

Tools

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

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



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

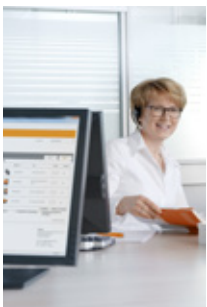


Marking system



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

Service and support



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

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

www.weidmueller.com/best-connections

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

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

2504960000

Let's connect.

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

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

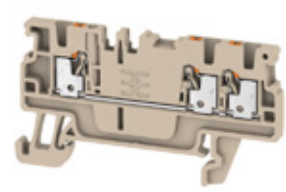
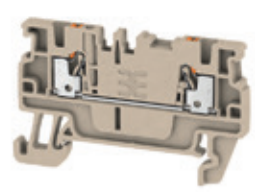
Infrastructure

A2C 1.5

1.5 mm²

A3C 1.5

1.5 mm²



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

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

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

Technical data

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

IEC 60947-7-1			
IEC	UL	CSA	EN 60079-7
500	300		
17.5	13		
1.5	AWG 26...14		
6 kV / 3			
A1 / V-0			
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			

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

Ordering data

Version	
	dark beige
	blue
Note	

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

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

Accessories

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

Type	current	Qty.	Order No.
ZQV 1.5N/2	17.5 A	60	1985410000
ZQV 1.5N/10	17.5 A	20	1985580000
AEP 2C 1.5		50	1552600000
AEP 2C 1.5 BL		50	1552610000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 1.5 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.
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

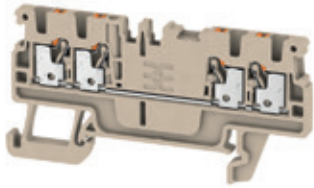
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

A4C 1.5

1.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

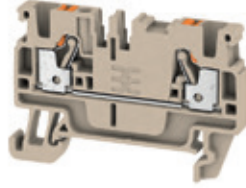
Type	Qty.	Order No.
A4C 1.5	100	1552690000
A4C 1.5 BL	100	1552700000

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

All MultiMark variants (MM) = strip markers

A2C 2.5

2.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

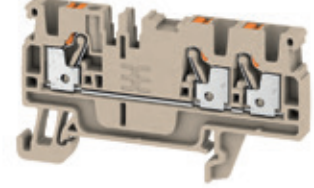
Type	Qty.	Order No.
A2C 2.5	100	1521850000
A2C 2.5 BL	100	1521880000

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

All MultiMark variants (MM) = strip markers

A3C 2.5

2.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

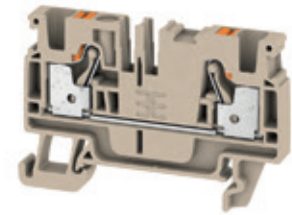
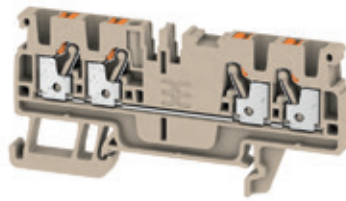
Infrastructure

A4C 2.5

2.5 mm²

A2C 4

4 mm²



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

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

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

Technical data

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

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

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

Ordering data

Version	
	dark beige
	blue
Note	

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

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

Accessories

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

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

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

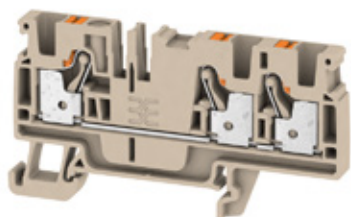
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

A3C 4

4 mm²



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



IEC 60947-7-1

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

CE

Rated connection

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

Approval in progress

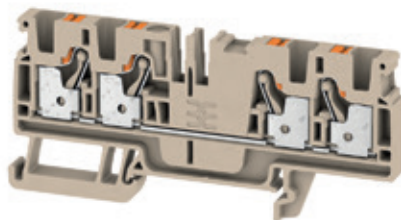
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A3C 4	50	2051240000
A3C 4 BL	50	2051280000

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

All MultiMark variants (MM) = strip markers

A4C 4

4 mm²



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



IEC 60947-7-1

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

CE

Rated connection

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

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

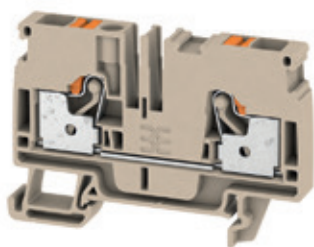
Transportation

Device Manufacturers

Infrastructure

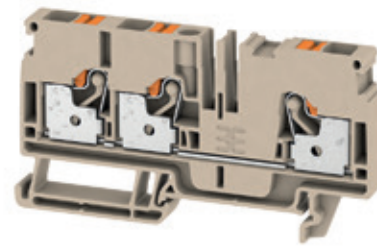
A2C 6

6 mm²



A3C 6

6 mm²



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

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

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

Technical data

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

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600	600	
41	38	38	
6	AWG 22...8	AWG 22...8	
8 kV / 3			
A5 / V-0			

CE

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

Approval in progress

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
800	600	600	
41	38	38	
6	AWG 22...8	AWG 22...8	
8 kV / 3			
A5 / V-0			

CE

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

Approval in progress

Ordering data

Version	
	dark beige
	blue
Note	

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

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

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

ALO 6

6 mm²



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

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



Technical data

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

IEC 60947-7-1			
IEC	UL	CSA	EN 60079-7
800	600	600	
41	38	38	
6	AWG 22...8	AWG 22...8	
8 kV / 3			
A5 / V-0			
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

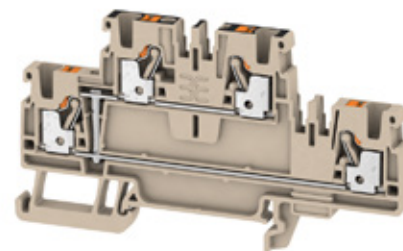
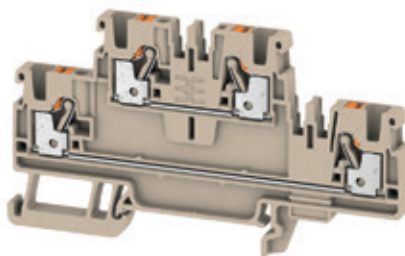
Infrastructure

A2T 2.5

2.5 mm²

A2T 2.5 VL

2.5 mm²



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

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

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

Technical data

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

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			
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
AEB 35 SC/1			
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L			
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MHR			
ATPG 2.5 MHR		50	1991960000
ATPG 2.5/3			
ATPG 2.5/3		25	2041190000
ATPG 2.5/5			
ATPG 2.5/5		25	2041180000
PS 2.0 MC			
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100			
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS			
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS			
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS			
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS			
WS 10/5 M PLUS MC NE WS		600	2003770000
SNAPMARK I			
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			
AEP 2T 2.5		20	1547690000
AEP 2T 2.5 BL		20	1547700000
AEB 35 SC/1			
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L			
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MHR			
ATPG 2.5 MHR		50	1991960000
ATPG 2.5/3			
ATPG 2.5/3		25	2041190000
ATPG 2.5/5			
ATPG 2.5/5		25	2041180000
PS 2.0 MC			
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100			
SDIL 0,6x3,5x100		1	9042110000
DEK 5/5 PLUS MC NE WS			
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK 5/5 MM WS			
DEK 5/5 MM WS		800	2007110000
WS 8/5 MM WS			
WS 8/5 MM WS		800	2007150000
WS 10/5 M PLUS MC NE WS			
WS 10/5 M PLUS MC NE WS		600	2003770000
SNAPMARK I			
SNAPMARK I		50	1805880000

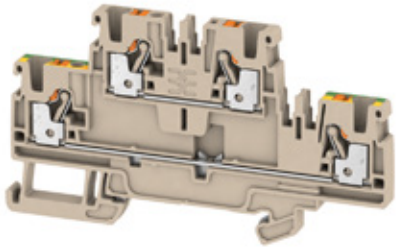
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

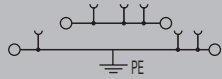
All MultiMark variants (MM) = strip markers

A2T 2.5 FT-PE

2.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

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

Approval in progress

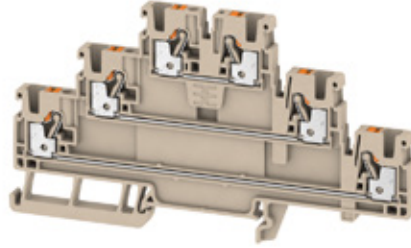
Type	Qty.	Order No.
A2T 2.5 FT-PE	50	1547640000

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

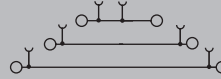
All MultiMark variants (MM) = strip markers

A3T 2.5

2.5 mm²



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



DIN EN 60947-7-1

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

Rated connection

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

Approval in progress

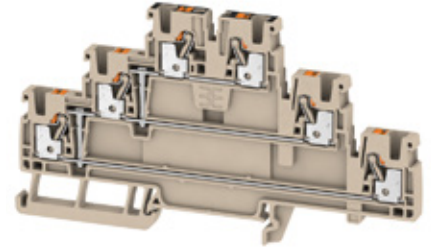
Type	Qty.	Order No.
A3T 2.5	50	2428510000
A3T 2.5 BL	50	2428520000

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

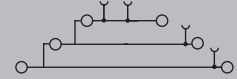
All MultiMark variants (MM) = strip markers

A3T 2.5 VL

2.5 mm²



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



DIN EN 60947-7-1

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

Rated connection

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

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

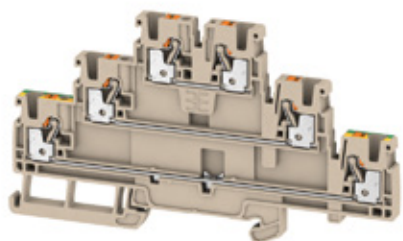
Transportation

Device Manufacturers

Infrastructure

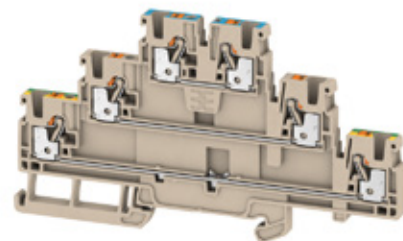
A3T 2.5 FT-FT-PE

2.5 mm²



A3T 2.5 N-FT-PE

2.5 mm²



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

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

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

Technical data

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

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

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

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

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

Ordering data

Version	dark beige blue
Note	

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

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

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

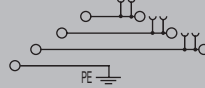
All MultiMark variants (MM) = strip markers

AMC 2.5

2.5 mm²



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



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

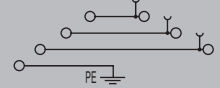
IEC	UL	CSA	EN 60079-7
690			
21			
2.5			
		8 kV / 3	
		A3 / V-0	
Rated connection			
0.5...2.5 / 0.5...2.5			
0.5...2.5 / 0.5...2.5			
10 / 0.6 x 3.5 mm			
Approval in progress			

AMC 2.5 800 V

2.5 mm²



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



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

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

Width/Height/Depth mm
 max. current / max. cond. cross-section A/mm²
 Max. clamping range mm²

Technical data

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

Ordering data

Version	
	dark beige
Note	

Accessories

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

Type	Qty.	Order No.
AMC 2.5	50	2434340000

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

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

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

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

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data
 Machinery
 Process
 Energy
 Transportation
 Device Manufacturers
 Infrastructure

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

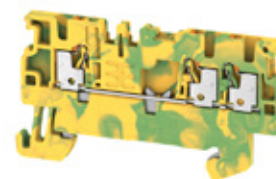
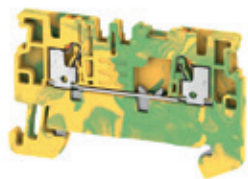
Infrastructure

A2C 1.5 PE

1.5 mm²

A3C 1.5 PE

1.5 mm²



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

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

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

Technical data

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

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

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

Ordering data

Version	green/yellow
Note	

Type	Qty.	Order No.
A2C 1.5 PE	50	1552680000

Type	Qty.	Order No.
A3C 1.5 PE	50	1552670000

Accessories

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

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

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

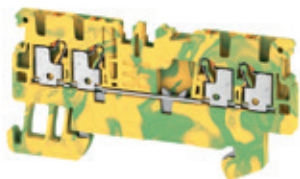
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

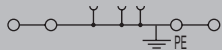
All MultiMark variants (MM) = strip markers

A4C 1.5 PE

1.5 mm²



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



IEC 60947-7-2

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

CE

Rated connection

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

Approval in progress

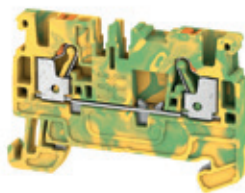
Type	Qty.	Order No.
A4C 1.5 PE	50	1552660000

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

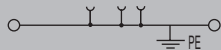
All MultiMark variants (MM) = strip markers

A2C 2.5 PE

2.5 mm²



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



IEC 60947-7-2

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

CE

Rated connection

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

Approval in progress

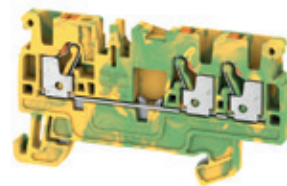
Type	Qty.	Order No.
A2C 2.5 PE	50	1521680000

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

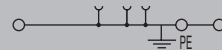
All MultiMark variants (MM) = strip markers

A3C 2.5 PE

2.5 mm²



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



IEC 60947-7-2

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

CE

Rated connection

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

Approval in progress

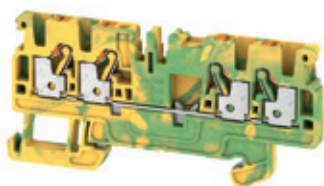
Type	Qty.	Order No.
A3C 2.5 PE	50	1521670000

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

All MultiMark variants (MM) = strip markers

A4C 2.5 PE

2.5 mm²



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

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



Technical data

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

IEC 60947-7-2

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

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

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

Note

Approval in progress

Ordering data

Version	green/yellow
Note	

Type	Qty.	Order No.
A4C 2.5 PE	50	1521540000

Accessories

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

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

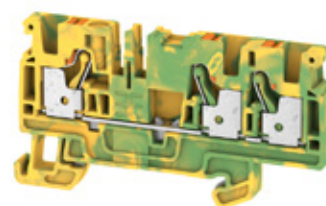
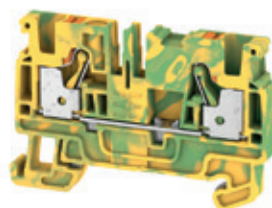
Infrastructure

A2C 4 PE

4 mm²

A3C 4 PE

4 mm²



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

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

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

Technical data

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

IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
4	AWG 28...10	AWG 26...10	
800			
8			
	480 A (4 mm ²)		
	3		
	A4 / V-0		

CE

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

IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
4	AWG 28...10	AWG 26...10	
800			
8			
	480 A (4 mm ²)		
	3		
	A4 / V-0		

CE

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

Note

Approval in progress

Approval in progress

Ordering data

Version	green/yellow
Note	

Type	Qty.	Order No.
A2C 4 PE	50	2051360000

Type	Qty.	Order No.
A3C 4 PE	50	2051410000

Accessories

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

Type	current	Qty.	Order No.
AEP 2C 4		50	2051680000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 4 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

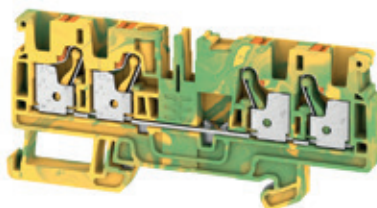
Transportation

Device Manufacturers

Infrastructure

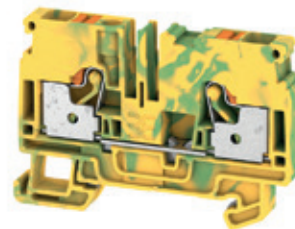
A4C 4 PE

4 mm²



A2C 6 PE

6 mm²



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

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

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

Technical data

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

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

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

Ordering data

Version	green/yellow
Note	

Type	Qty.	Order No.
A4C 4 PE	50	2051560000

Type	Qty.	Order No.
A2C 6 PE	50	1991810000

Accessories

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

Type	current	Qty.	Order No.
AEP 4C 4		20	2051900000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 4 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 2C 6		50	1991970000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 6 M-R		50	1991930000
PS 2.0 MC		20	0310000000
SDIL 1,0x5,5x125		1	9042130000
WSA 8/8 MM WS		500	2448930000
DEK-A 5/8 MM WS		500	2448860000
DEK 5/8 PLUS MC NE WS		800	1046350000
WS 10/8 PLUS MC NE WS		420	1905950000

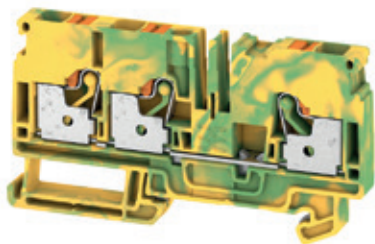
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

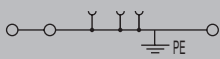
All MultiMark variants (MM) = strip markers

A3C 6 PE

6 mm²



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



IEC 60947-7-2

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

CE

Rated connection

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

Approval in progress

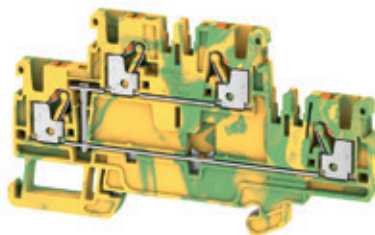
Type	Qty.	Order No.
A3C 6 PE	50	1991850000

Type	current	Qty.	Order No.
AEP 3C 6		50	1991940000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 6 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

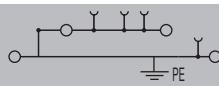
All MultiMark variants (MM) = strip markers

A2T 2.5 PE

2.5 mm²



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



IEC 60947-7-2

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

CE

Rated connection

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

Approval in progress

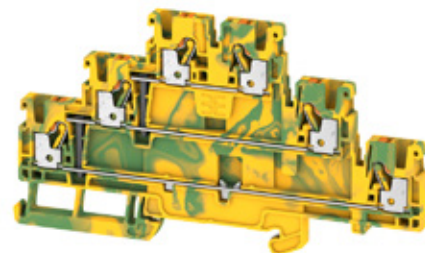
Type	Qty.	Order No.
A2T 2.5 PE	50	1547680000

Type	current	Qty.	Order No.
AEP 2T 2.5		20	1547690000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 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

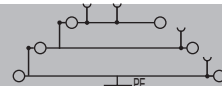
All MultiMark variants (MM) = strip markers

A3T 2.5 PE

2.5 mm²



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



DIN EN 60947-7-2

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

Rated connection

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

Approval in progress

Type	Qty.	Order No.
A3T 2.5 PE	50	2428550000

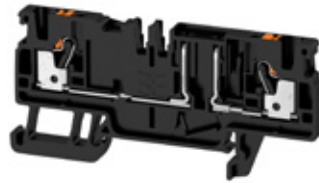
Type	current	Qty.	Order No.
AEP 3T 2.5		20	2428560000
AEB 35 SC/1		50	1991920000
ZEW 35/2		20	8630740000
ATPG 1.5-10 L		50	1991890000
ATPG 2.5 MI-R		50	1991960000
PS 2.0 MC		20	0310000000
SDIL 0,6x3,5x100		1	9042110000
WS 10/5 M PLUS MC NE WS		600	2003770000
DEK 5/5 PLUS MC NE WS		1000	1854490000
DEK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

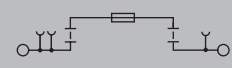
AFS 2.5 CF 2C

2.5 mm²



AFS 4 2C

4 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-3

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

DIN EN 60947-7-3

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

Ordering data

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

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

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

Accessories

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

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

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

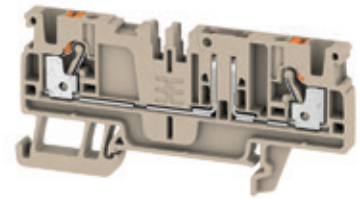
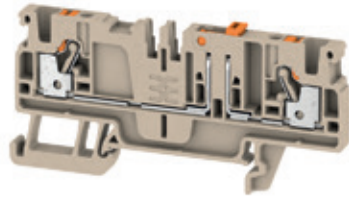
For detailed information on other accessories and application in the online catalogue

ADT 2.5 2C

2.5 mm²

ADT 2.5 2C W/O DTLV

2.5 mm²



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

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

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

Technical data

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

IEC 60947-7-1

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

CE

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

Approval in progress

IEC 60947-7-1

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

CE

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

Approval in progress

Ordering data

Version	
	dark beige
	blue
	without isolator
Note	

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

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

Accessories

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

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

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

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

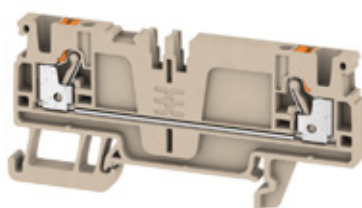
Transportation

Device Manufacturers

Infrastructure

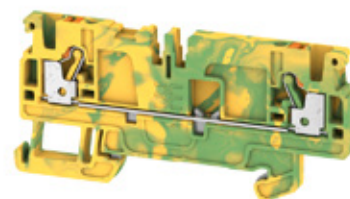
A2C 2.5 /DT/FS

2.5 mm²



A2C 2.5 PE /DT/FS

2.5 mm²



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

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

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

Technical data

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

IEC 60947-7-1

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

CE

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

Approval in progress

IEC 60947-7-2

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

CE

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

Approval in progress

Ordering data

Version	
	dark beige
	blue
	without isolator
Note	

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

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

Accessories

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

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

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

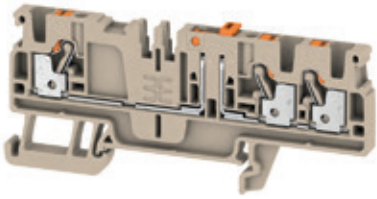
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

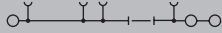
All MultiMark variants (MM) = strip markers

ADT 2.5 3C

2.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

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

Approval in progress

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

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

AEP DT 2.5 3C	50	1989970000
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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
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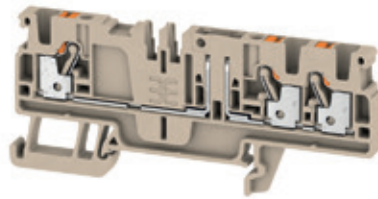
SDIL 0,6x3,5x100	1	9042110000
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DEK 5/5 PLUS MC NE WS	1000	1854490000
DEK 5/5 MM WS	800	2007110000
WS 8/5 MM WS	800	2007150000
WS 10/5 M PLUS MC NE WS	600	2003770000

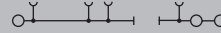
All MultiMark variants (MM) = strip markers

ADT 2.5 3C W/O DTLV

2.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

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

Approval in progress

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

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

AEP DT 2.5 3C	50	1989970000
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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
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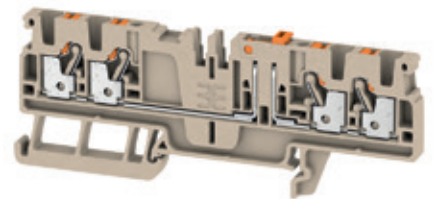
SDIL 0,6x3,5x100	1	9042110000
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DEK 5/5 PLUS MC NE WS	1000	1854490000
DEK 5/5 MM WS	800	2007110000
WS 8/5 MM WS	800	2007150000
WS 10/5 M PLUS MC NE WS	600	2003770000

All MultiMark variants (MM) = strip markers

ADT 2.5 4C

2.5 mm²



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



IEC 60947-7-1

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

CE

Rated connection

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

Approval in progress

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

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

AEP DT 2.5 4C	50	1989980000
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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
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SDIL 0,6x3,5x100	1	9042110000
------------------	---	-------------------

DEK 5/5 PLUS MC NE WS	1000	1854490000
DEK 5/5 MM WS	800	2007110000
WS 8/5 MM WS	800	2007150000
WS 10/5 M PLUS MC NE WS	600	2003770000

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

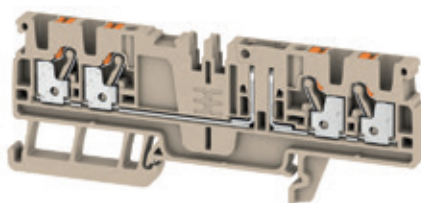
Transportation

Device Manufacturers

Infrastructure

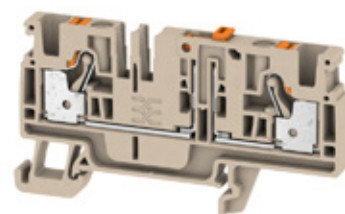
ADT 2.5 4C W/O DTLV

2.5 mm²



ADT 4 2C

4 mm²



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

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

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

Technical data

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

IEC 60947-7-1

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

CE

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

IEC/EN 60947-7-1:2009

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

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

Ordering data

Version	dark beige blue without isolator
Note	

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

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

Accessories

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

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

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

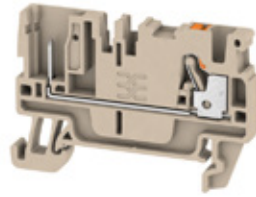
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

APGTB 2.5 FT 2C/1

2.5 mm²



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



IEC 60947-7-1, IEC 61984

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



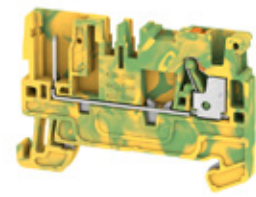
Rated connection

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

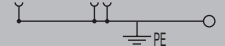
Approval in progress

APGTB 2.5 PE 2C/1

2.5 mm²



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



IEC 60947-7-2, IEC 61984

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



Rated connection

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

Approval in progress

Width/Height/Depth mm
 max. current / max. cond. cross-section A/mm²
 Max. clamping range mm²

Technical data

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

Note

Ordering data

Version	
	dark beige
	blue
	green/yellow
Note	

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

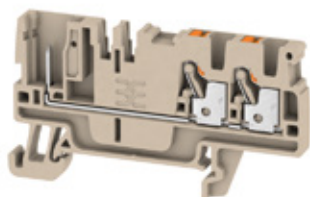
Transportation

Device Manufacturers

Infrastructure

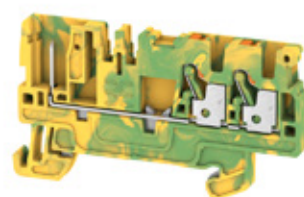
APGTB 2.5 FT 3C/1

2.5 mm²



APGTB 2.5 PE 3C/1

2.5 mm²



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

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

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

Technical data

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

IEC 60947-7-1, IEC 61984

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

Rated connection

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

Approval in progress

IEC 60947-7-2, IEC 61984

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

Rated connection

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

Approval in progress

Ordering data

Version	
	dark beige
	blue
	green/yellow
Note	

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

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

Accessories

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

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

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

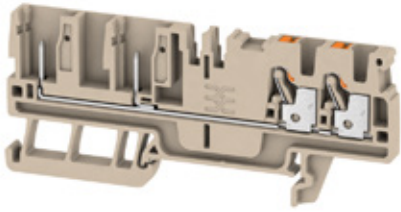
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

APGTB 2.5 FT 4C/2

2.5 mm²



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



IEC 60947-7-1, IEC 61984

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



Rated connection

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

Approval in progress

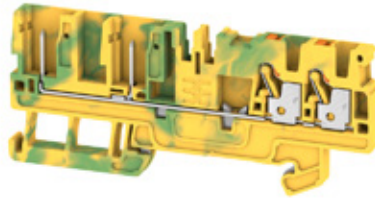
Type	Qty.	Order No.
APGTB 2.5 FT 4C/2	50	1514030000
APGTB 2.5 FT 4C/2 BL	50	1514040000

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

All MultiMark variants (MM) = strip markers

APGTB 2.5 PE 4C/2

2.5 mm²



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



IEC 60947-7-2, IEC 61984

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



Rated connection

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

Approval in progress

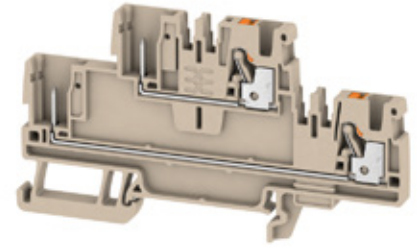
Type	Qty.	Order No.
APGTB 2.5 PE 4C/2	50	1513920000

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

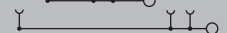
All MultiMark variants (MM) = strip markers

APGTB 2.5 2T 4C/2

2.5 mm²



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



IEC 60947-7-1, IEC 61984

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



Rated connection

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

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

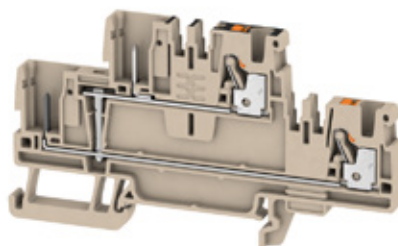
Transportation

Device Manufacturers

Infrastructure

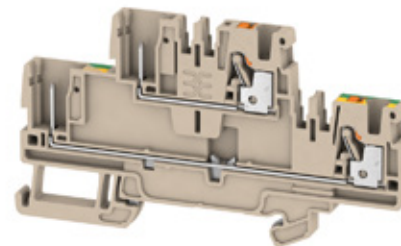
APGTB 2.5 2T VL 4C/2

2.5 mm²



APGTB 2.5 2T FT-PE 4C/2

2.5 mm²



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

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

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

Technical data

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

IEC 60947-7-1, IEC 61984

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

Rated connection

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

Approval in progress

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

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

Rated connection

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

Approval in progress

Ordering data

Version	dark beige
	blue
	green/yellow
Note	

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

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

Accessories

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

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

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

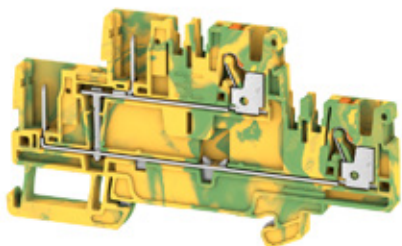
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

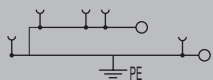
All MultiMark variants (MM) = strip markers

APGTB 2.5 2T PE 4C/2

2.5 mm²



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



IEC 60947-7-2, IEC 61984

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



Rated connection

0.5...2.5 / 0.5...2.5

0.5...2.5 / 0.5...2.5

10 / 0.6 x 3.5 mm

Approval in progress

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

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

All MultiMark variants (MM) = strip markers



APG 2.5...

2.5 mm²



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

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

Technical data

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

IEC 61984

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

® TÜV (R)

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

Approval in progress

Ordering data

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

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

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

Accessories

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

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Device Manufacturers

Infrastructure



Infrastructure



**Device
Manufacturers**



Transportation



Energy



Process



Machinery

Technical data

Cross-connections according to dimensions

ZQV 1.5N



ZQV 2.5N



ZQV 4N



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

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

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

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



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

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

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

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



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

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

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

32			
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

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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 mm² up to 1.5 mm² can be connected.

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

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

ATPG 1.5-10

Start plate



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

ATPG 1.5 MI-R

Middle plate or end plate



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

ATPG 2.5 MI-R

Middle plate or end plate



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

Test adapter

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

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

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

ATPG 4 MI-R-10

Middle plate or end plate



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

ATPG 6 MI-R

Middle plate or end plate



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

ATPG 10 MI-R

Middle plate or end plate



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



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

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Transportation

Device Manufacturers

Infrastructure

WPD 130



WPD 230



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

20 / 45 / 70
1000 V AC
1000 V DC
120 A
V-0



35,6 / 45 / 70
1000 V AC
1000 V DC
120 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
1				
6...10mm ²				
10...50mm ²				
4...35mm ²				
10Nm				
M 10				
16mm				
top	mid./left	mid./mid.	mid./right	bottom
1				
6...10mm ²				
10...50mm ²				
4...35mm ²				
10Nm				
M 10				
16mm				
1				
Note	Rated current with Cu conductors: 150 A			

IEC 60947-7-1, UL 1059, CSA

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

Ordering data

Version
grey
blue
brown
green
black
Note

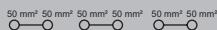
Type	Qty.	Order No.
WPD 130 1X50/1X50 GY	9	2502530000
WPD 130 1X50/1X50 BL	9	2502540000
WPD 130 1X50/1X50 BN	9	2502560000
WPD 130 1X50/1X50 GN	9	2502550000
WPD 130 1X50/1X50 BK	9	2502570000
Note		

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

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

Technical data
 Machinery
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 Device Manufacturers
 Infrastructure

Technical data

Machinery

Process

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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	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

IEC 60947-7-1, UL 1059, CSA

IEC 60947-7-1, UL 1059, CSA

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	

Inputs				
top	mid./left	mid./mid.	mid./right	bottom
		1		
		16...16mm²		
		16...95mm²		
		10...70mm²		
		19Nm		
		M 14		
		26mm		
Outputs				
top	mid./left	mid./mid.	mid./right	bottom
		1		
		1.5...10mm²		
		1.5...10mm²		
		1.5...6mm²		
		1.2Nm		
		M 4		
		10mm		
		26mm		
		1		
		Rated current with Cu conductors: 232 A		

Inputs				
top	mid./left	mid./mid.	mid./right	bottom
		2		
		16...16mm²		
		16...95mm²		
		10...70mm²		
		19Nm		
		M 14		
		26mm		
Outputs				
top	mid./left	mid./mid.	mid./right	bottom
		1		
		1.5...10mm²		
		1.5...10mm²		
		1.5...6mm²		
		1.2Nm		
		M 4		
		10mm		
		26mm		
		2		
		Rated current with Cu conductors: 232 A		

Ordering data

Version	Type	Qty.	Order No.
grey	WPD 131 1X95/1X95 GY	2	2503090000
blue	WPD 131 1X95/1X95 BL	2	2502660000
brown	WPD 131 1X95/1X95 BN	2	2502680000
green	WPD 131 1X95/1X95 GN	2	2502670000
black	WPD 131 1X95/1X95 BK	1	2502690000
Note			

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

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
Note		

WPD 132



WPD 232

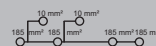


Width/Depth/Height
Rated AC voltage
Rated DC voltage
Rated current
UL 94 flammability rating

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



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



Technical data

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

IEC 60947-7-1, UL 1059, CSA

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

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		
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			

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

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



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

WPD 133

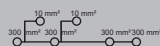


WPD 233



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

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



Technical data

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

IEC 60947-7-1, UL 1059, CSA

	top	mid./left	mid./mid.	mid./right	bottom
Number of connections			1		
Solid			150...300mm ²		
Stranded			150...300mm ²		
Flexible with ferrule			120...240mm ²		
Torque			45Nm		
Clamping screw			M 24		
Stripping length			34mm		
Outputs					
Number of connections	1		1		
Solid	1.5...10mm ²		150...300mm ²		
Stranded	1.5...10mm ²		150...300mm ²		
Flexible with ferrule	1.5...6mm ²		120...240mm ²		
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 ²		
Stranded			150...300mm ²		
Flexible with ferrule			120...240mm ²		
Torque			45Nm		
Clamping screw			M 24		
Stripping length			34mm		
Outputs					
Number of connections	2		2		
Solid	1.5...10mm ²		150...300mm ²		
Stranded	1.5...10mm ²		150...300mm ²		
Flexible with ferrule	1.5...6mm ²		120...240mm ²		
Torque	1.2Nm		45Nm		
Clamping screw	M 4		M 24		
Stripping length	10mm		34mm		
Poles			2		
Note			Rated current with Cu conductors: 520 A		

Ordering data

Version	
	grey
	blue
	brown
	green
	black
Note	

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

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



Infrastructure



**Device
Manufacturers**



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AMC 2.5

2.5 mm²

AMC 2.5 800 V

2.5 mm²



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

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

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

Technical data

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

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

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

Ordering data

Version	dark beige
Note	

Type	Qty.	Order No.
AMC 2.5	50	2434340000

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

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

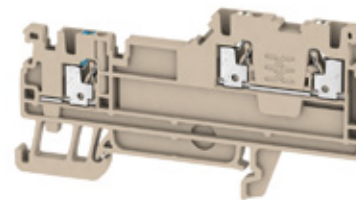
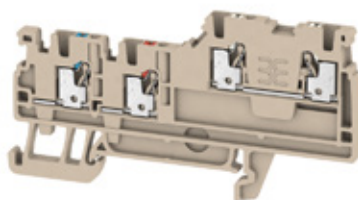
AIO - sensor-actuator terminal blocks

AI021 1.5 SI

1.5 mm²

AI021 1.5 SO

1.5 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

Ordering data

Version
Note

Type	Qty.	Order No.
AI021 1.5 SI	100	1992260000

Type	Qty.	Order No.
AI021 1.5 SO	100	1992240000

Accessories

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

Type	current	Qty.	Order No.
ZQV 1.5N/2 RD	17.5 A	60	1985650000
ZQV 1.5N/10 RD	17.5 A	20	1985800000
ZQV 1.5N/2 BL	17.5 A	60	1985530000
ZQV 1.5N/10 BL	17.5 A	20	1985680000
AEP IO21		50	1993580000
AEB 35 SC/1		50	1991920000
ZEW 35		20	9540000000
ATPG 1.5-10 L		50	1991890000
ATPG 1.5 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

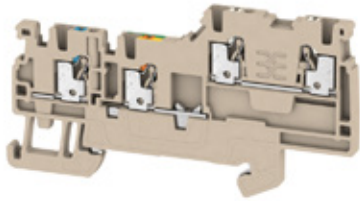
Transportation

Device Manufacturers

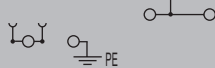
Infrastructure

AI021 1.5 SO-PE

1.5 mm²



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



In accordance with IEC 60947-7-1

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



Rated connection

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

Approval in progress

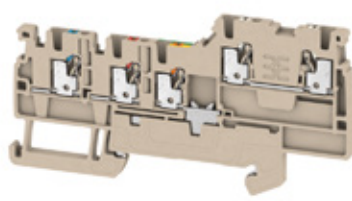
Type	Qty.	Order No.
AI021 1.5 SO-PE	100	1992250000

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

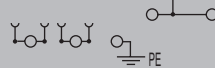
All MultiMark variants (MM) = strip markers

AI022 1.5 SI-PE

1.5 mm²



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



In accordance with IEC 60947-7-1

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



Rated connection

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

Approval in progress

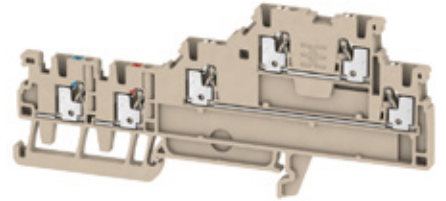
Type	Qty.	Order No.
AI022 1.5 SI-PE	100	1992230000

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

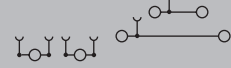
All MultiMark variants (MM) = strip markers

AI023 1.5 2SI

1.5 mm²



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



In accordance with IEC 60947-7-1

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



Rated connection

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

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

AAP - potential distribution terminal blocks

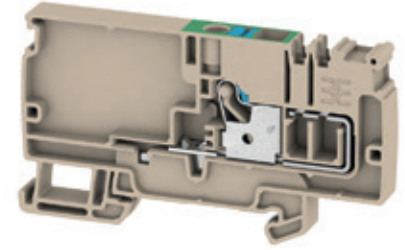
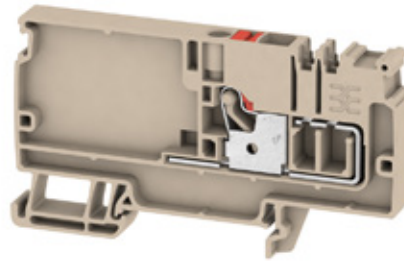
Potential distribution with separate fusing

AAP11 6 LO

6 mm²

AAP11 6 FE

6 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

Ordering data

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

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

Type	Qty.	Order No.
AAP11 6 FE	20	1988140000

FE = functional earth, contact to DIN rail.

Accessories

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

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

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

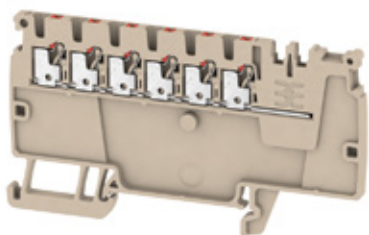
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

AAP11 1.5 LI

1.5 mm²



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



IEC/EN 60947-7-1:2009

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

CE

Rated connection

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

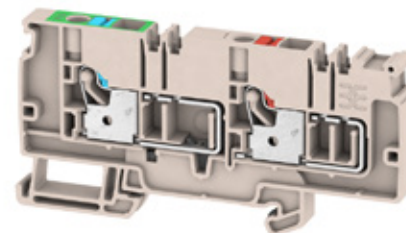
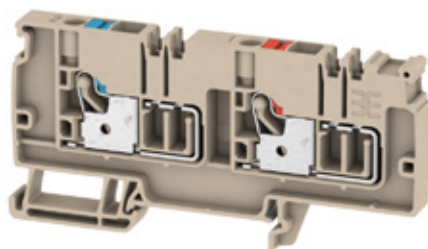
Potential distribution with separate fusing

AAP13 6 LO-LO

6 mm²

AAP13 6 FE-LO

6 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
250	150		
41	36		
6	AWG 22...8		
4 kV / 3			
A5 / V-0			
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	1988260000

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

FE = functional earth, contact to terminal rail.

Accessories

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

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

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

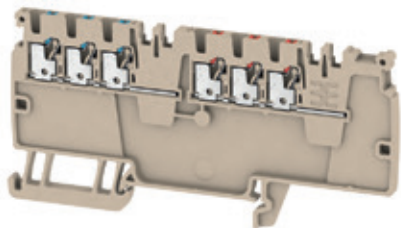
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

AAP13 1.5 LI-LI

1.5 mm²



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



IEC/EN 60947-7-1:2009

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

CE

Rated connection

0.5...1.5 / 0.5...1.5

0.5...1.5 / 0.5...1.5

8 / 0.4 x 2.0 mm

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



Infrastructure



AAP - potential distribution terminal blocks

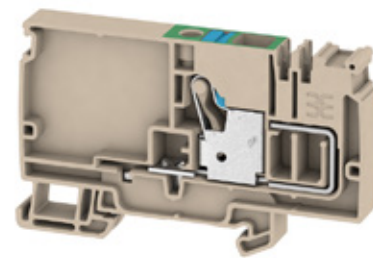
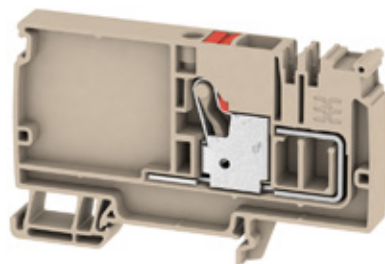
Potential distribution with separate fusing

AAP12 10 LO

10 mm²

AAP12 10 FE

10 mm²



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

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

10 x 89 x 54
/ 10
0.5...10

Technical data

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

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

Ordering data

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

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

Type	Qty.	Order No.
AAP12 10 FE	20	1988200000

FE = functional earth, contact to DIN rail.

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

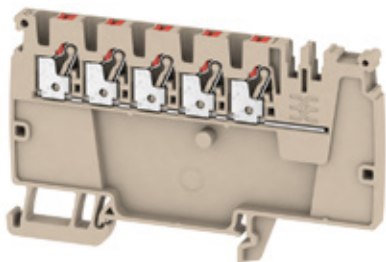
Transportation

Device Manufacturers

Infrastructure

AAP12 2.5 LI

2.5 mm²



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



IEC/EN 60947-7-1:2009

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

CE

Rated connection

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

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

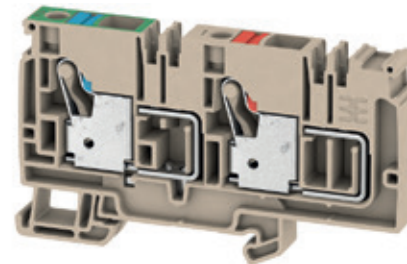
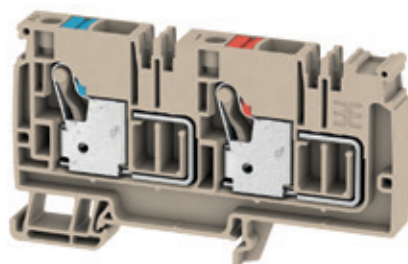
Potential distribution with separate fusing

AAP14 10 LO-LO

10 mm²

AAP14 10 FE-LO

10 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

In accordance with IEC 60947-7-1

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

CE

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

Approval in progress

Ordering data

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

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

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

FE = functional earth, contact to terminal rail

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

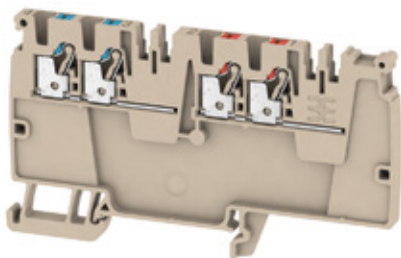
Transportation

Device Manufacturers

Infrastructure

AAP14 2.5 LI-LI

2.5 mm²



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



IEC/EN 60947-7-1:2009

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

CE

Rated connection

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

Approval in progress

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

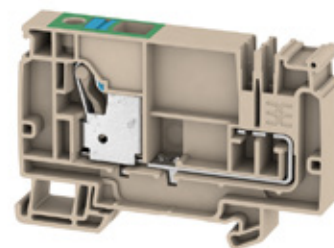
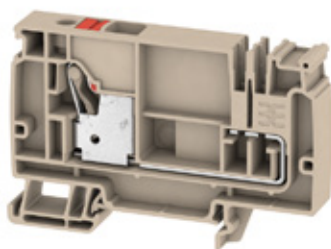
Potential distribution with integrated fusing

AAP21 10 LO

10 mm²

AAP21 10 FE

10 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-1

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

Rated connection

0.5...10 / 0.5...10
0.5...10 / 0.5...10
18 / 1.0 x 5.5 mm

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	2428910000
AAP21 10 LO BL	20	2428940000

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

Accessories

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

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

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

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

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

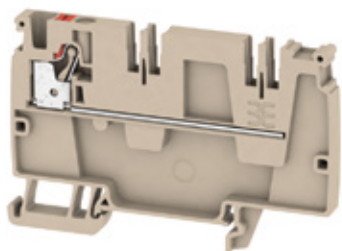
Transportation

Device Manufacturers

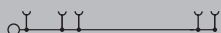
Infrastructure

AAP21 4 LI

4 mm²



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



In accordance with IEC 60947-7-1

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

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

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

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

All MultiMark variants (MM) = strip markers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

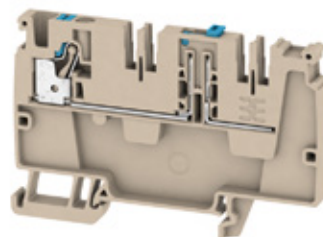
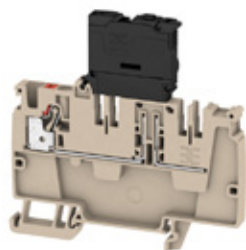
Potential distribution with integrated fusing

AAP21 4 FS

4 mm²

AAP21 4 DT

4 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-3

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

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

Approval in progress

In accordance with IEC 60947-7-1

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

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

Approval in progress

Ordering data

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

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

Type	Qty.	Order No.
AAP21 4 DT	50	2428980000

Accessories

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

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

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

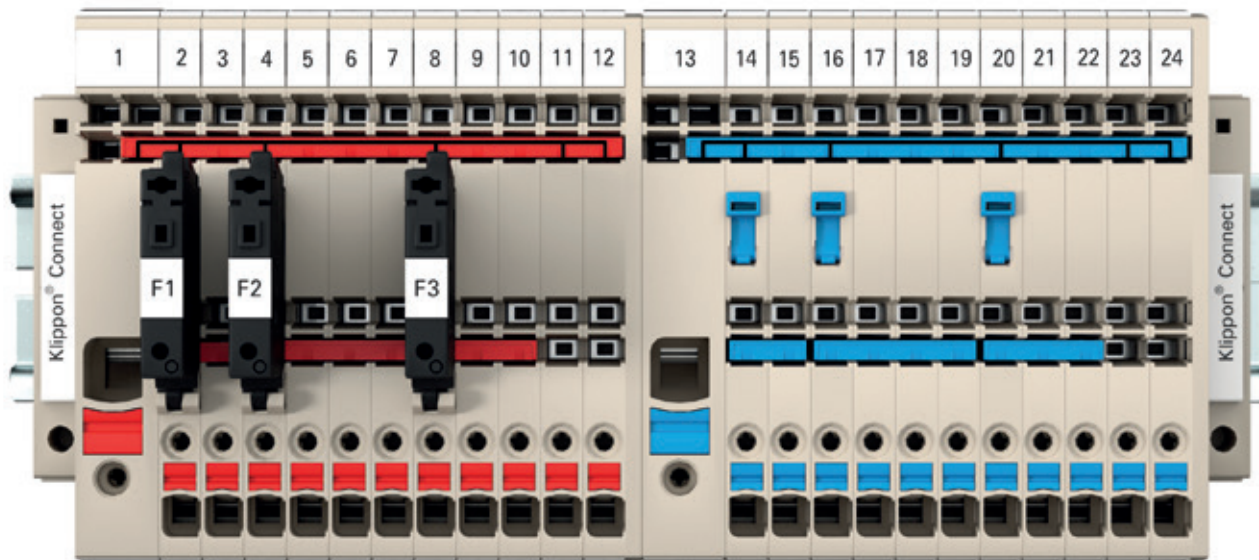
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

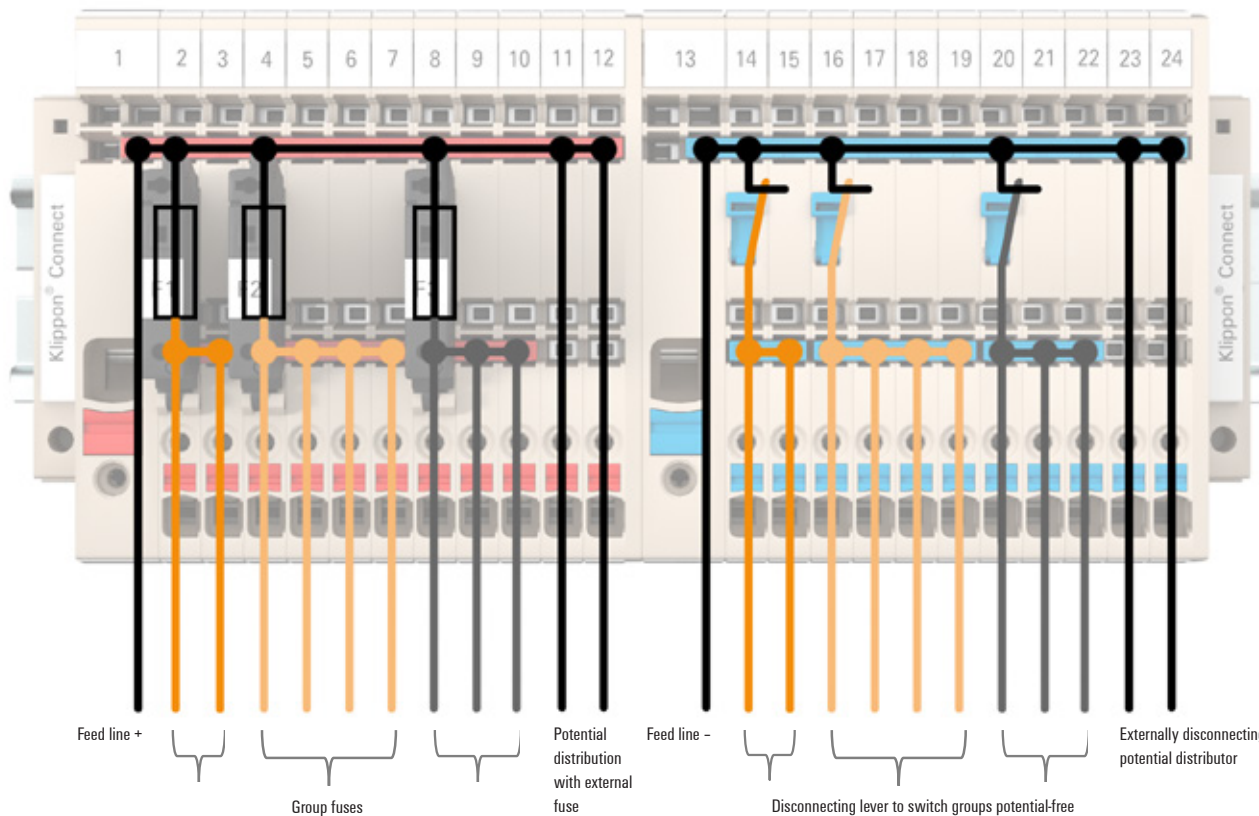
Clear, compact construction of control voltage distribution

Example configuration of potential distribution terminal block with fusing



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

Schematic representation of circuit diagram



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

AAP - potential distribution terminal blocks

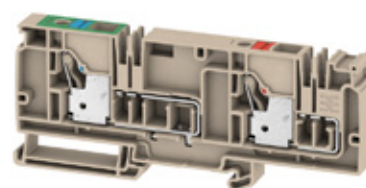
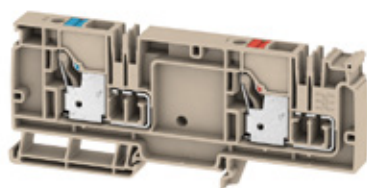
Potential distribution with integrated fusing

AAP22 10 LO-LO

10 mm²

AAP22 10 FE-LO

10 mm²



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

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

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

Technical data

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

In accordance with IEC 60947-7-1

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

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

In accordance with IEC 60947-7-1

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

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

Ordering data

Version	beige Wemid / red and blue pushers
Note	

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

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

Accessories

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

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

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

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

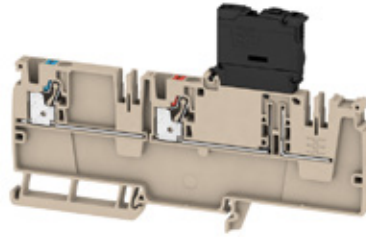
All MultiMark variants (MM) = strip markers

All MultiMark variants (MM) = strip markers

AAP - potential distribution terminal blocks

AAP22 4 LI-FS

4 mm²



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

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

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

Technical data

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

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

Note

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

Note

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	
Note	

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

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

Type	current	Qty.	Order No.
ZQV 4N/2 BL	32 A	60	1528040000
ZQV 4N/10 BL	32 A	20	1528230000
ZQV 4N/2 RD		60	2460450000
ZQV 4N/10 RD		20	2460740000
AEP AP22			
		20	2429040000
AEB 35 SC/1			
		50	1991920000
ZEW 35			
		20	9540000000
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

G-fuse cartridge, 5 x 20 mm (IEC 60127-2)	
0.25 A fast	
0.50 A fast	
1.00 A fast	
2.00 A fast	

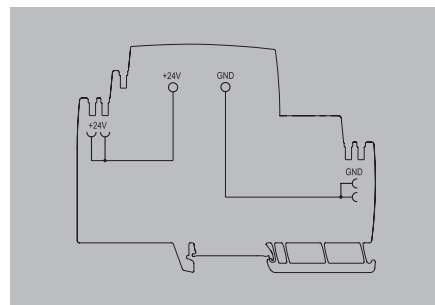
For detailed information on other accessories and application in the online catalogue

All MultiMark variants (MM) = strip markers

maxGUARD – power-feed module

Passive power-feed module

AMG FIM-0



Technical data

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

Ordering data

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

Technical data

Machinery

Process

Energy

Transportation

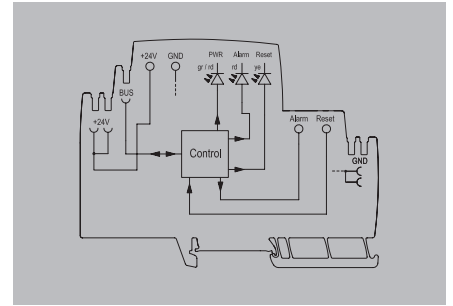
Device Manufacturers

Infrastructure

maxGUARD – power-feed module

Active power-feed module with reset and alarm function

AMG FIM-C



Technical data

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

Ordering data

Rated current	
Note	

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



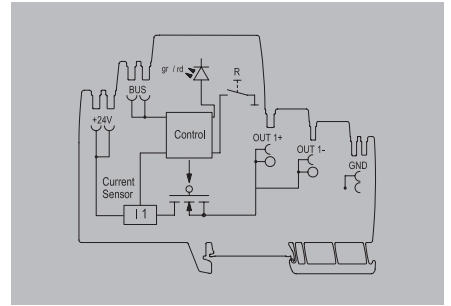
Infrastructure



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 _{load} +30 mA
max. admissible residual ripple at the input	100 mVpp
Output	
Connection system	PUSH IN
Triggering characteristic	see characteristic curve
Switch-on delay	1 s
Capacitive load	2080420000: 10,000 µF; 2080480000: 10,000 µF; 2080490000: 10,000 µF; 2080500000: 15,000 µF
Surge protection	Suppressor diode
Function key	
LED initial state	LED green, in operation LED flashing red, load monitoring has triggered (disconnected) LED red (permanently lit)

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

Pressing the button

LED, subsequent state
Output, subsequent state

General data

Relay to activate the output
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

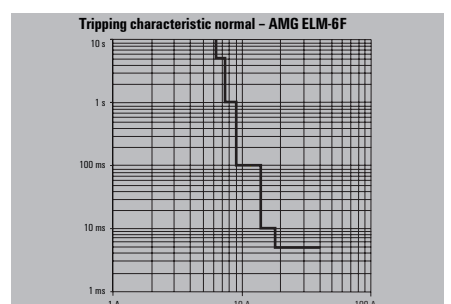
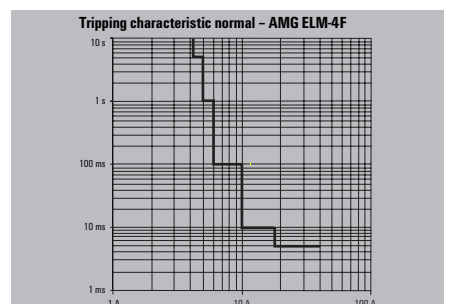
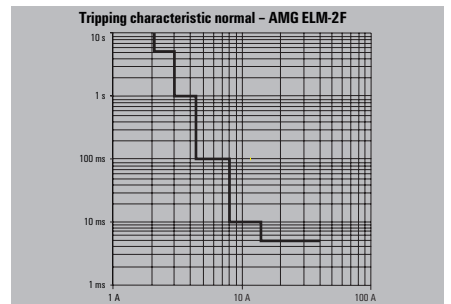
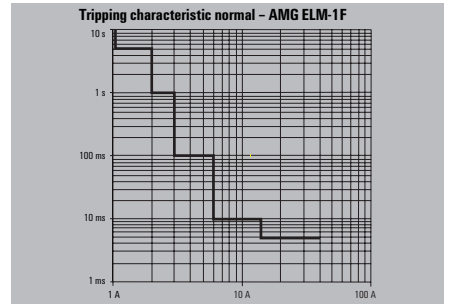
Rated current	
1.00 A	
2.00 A	
4.00 A	
6.00 A	
Note	

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

Accessories

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



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – load monitoring (fixed value)

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

Technical data

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

Ordering data

Rated current	8.00 A
	10.00 A
Note	

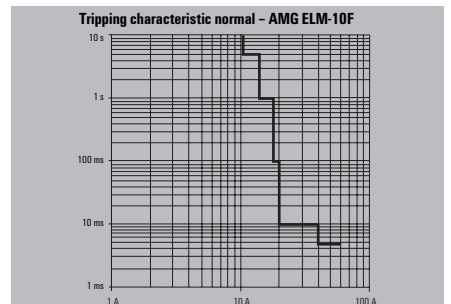
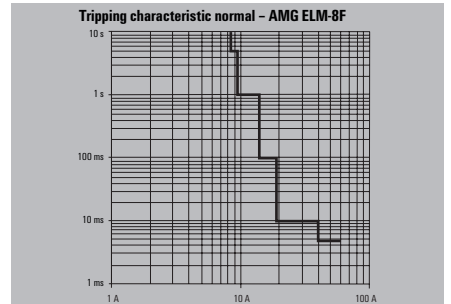
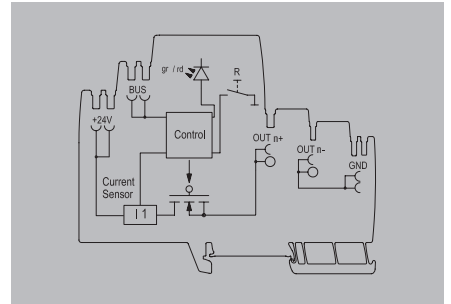
Accessories

Note	
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AMG ELM - xF



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



Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



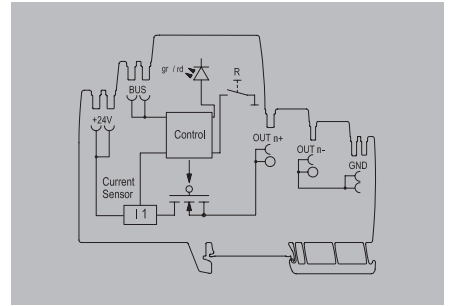
Infrastructure



maxGUARD – load monitoring (fixed value), Class 2

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

AMG ELM - xF CL2



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Technical data

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

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

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 ²
Wire cross-section, rigid min/max	0.14...2.5 mm ²
Screwdriver blade	0.6 x 3.5

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

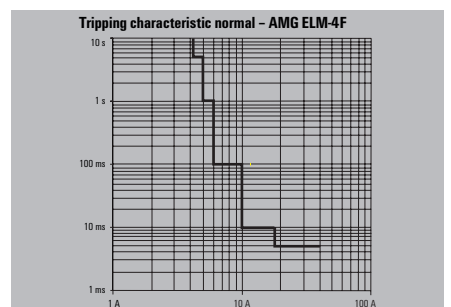
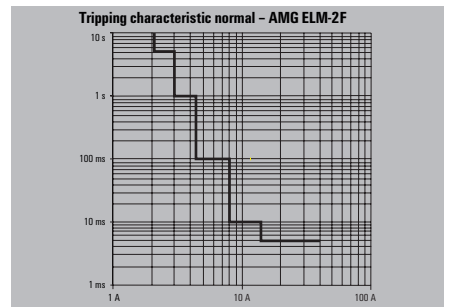
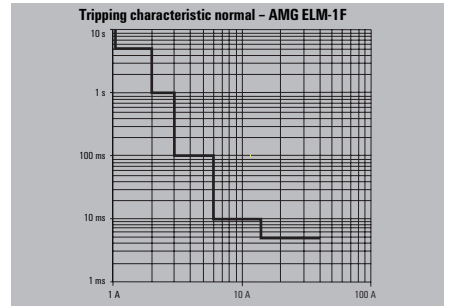
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367, class 2 (UL 1310)

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



maxGUARD – load monitoring adjustable

Electronic load monitoring with adjustable triggering current and triggering characteristic

Technical data

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

Ordering data

Rated current	6.00 A
Note	

Accessories

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

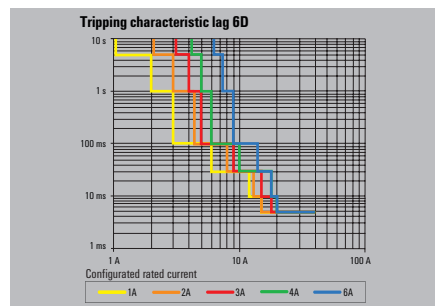
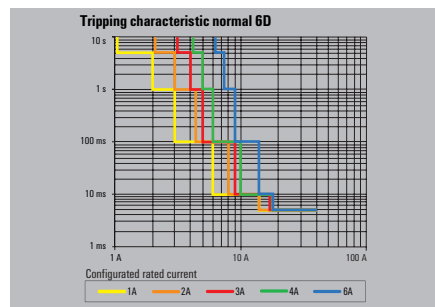
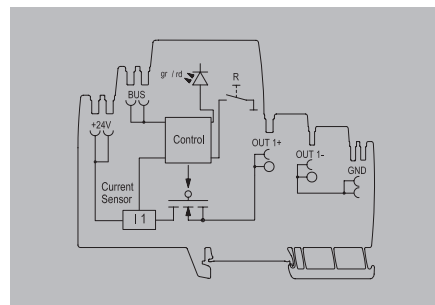
AMG ELM-6



Yes	LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
18...30 V DC	> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
24 V DC	Red LED switched off	Red LED switched off	LED green switched on
25 mA	No		
I _{OUT} +30 mA	IP20		
100 mVpp	III		
PUSH IN	Operation (failure-free), Early warning: I _{Out} > 90% I _{Rated} (flashing)		
see characteristic curve	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)		
1- 6 A	2 (+ / -)		
1 s	26...12		
15,000 µF	0.14...2.5 mm ²		
Yes	0.14...2.5 mm ²		
Suppressor diode	0.6 x 3.5		
LED green, in operation	CE, TÜV (60950), cULus, UL 2367		

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

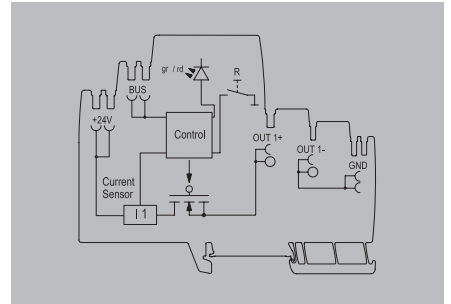
Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000



maxGUARD – load monitoring adjustable

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

AMG ELM-12



Technical data

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

Function key	
LED initial state	LED green, in operation

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 ²
Wire cross-section, rigid min/max	0.14...2.5 mm ²
Screwdriver blade	0.6 x 3.5

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

Note	
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Ordering data

Rated current	
	12.00 A

Note	
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Accessories

Note	
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LED status		
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

LED status		
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

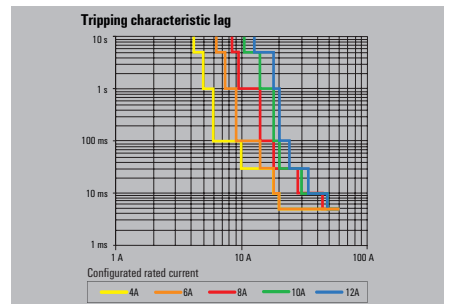
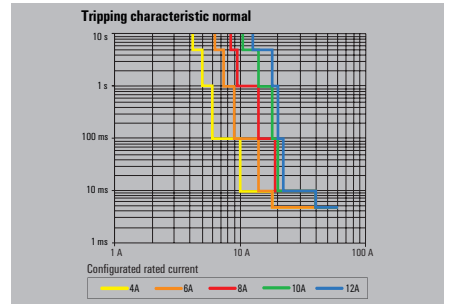
LED status		
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
Red LED switched off	Red LED switched off	LED green switched on

LED status		
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

LED status		
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

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

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



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – load monitoring with relay

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

Technical data

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

Output
Connection system
Triggering characteristic
Backup modes

Switch-on delay
adjustable rated current
Capacitive load

Surge protection

Function key
LED initial state

Pressing the button

LED, subsequent state
Output, subsequent state

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

Signalling
LED green
LED red

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

Approvals
Approvals

Note

Ordering data

Rated current	
	6.00 A
	10.00 A

Note

Accessories

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

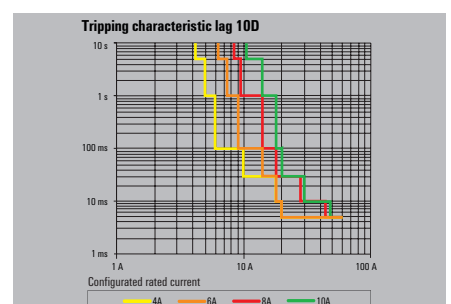
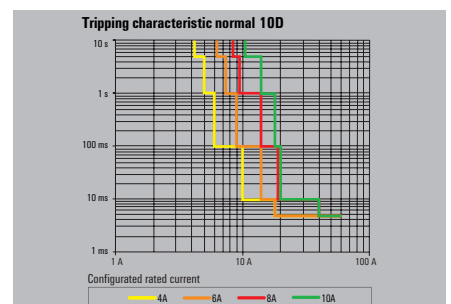
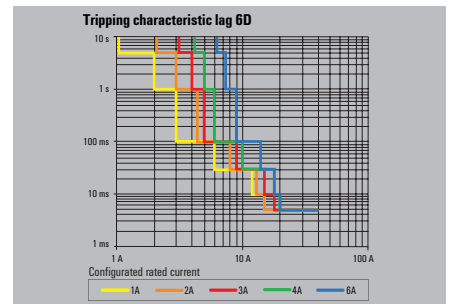
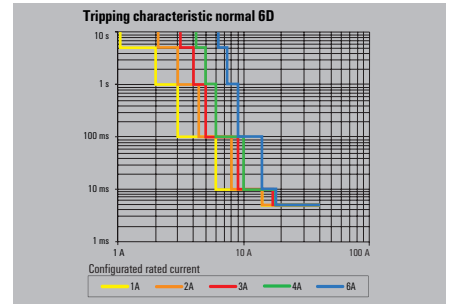
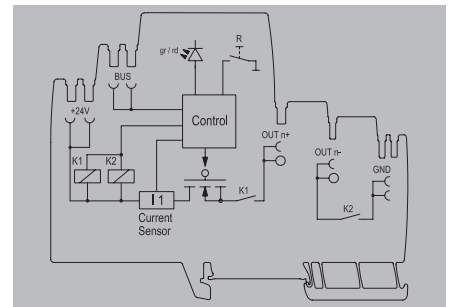
6 (3x + / 3x -)
26...12
0.14...2.5 mm ²
0.14...2.5 mm ²
0.6 x 3.5

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

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

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

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



Technical data

Machinery

Process

Energy

Transportation

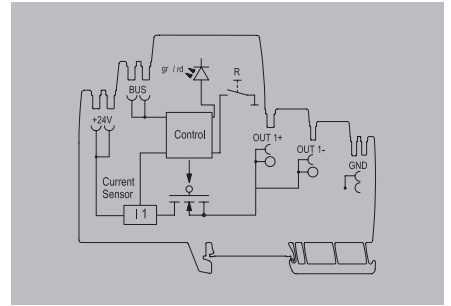
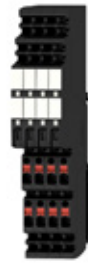
Device Manufacturers

Infrastructure

maxGUARD – load monitoring, 4 channels

4-channel electronic load monitoring with fixed triggering current.

AMG ELM - Qxxxx



Technical data

Input
Input fuse (internal)
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
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 _{OUT} +45 mA
100 mVpp
PUSH IN
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
Function key
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
General data
Relay to activate the output
Protection degree / Overvoltage category

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

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

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

Approvals
Approvals
Note

CE, TÜV (60950), cULus, UL 2367

Ordering data

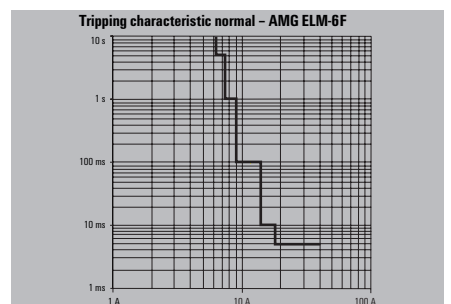
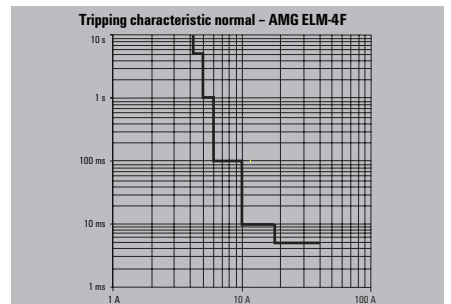
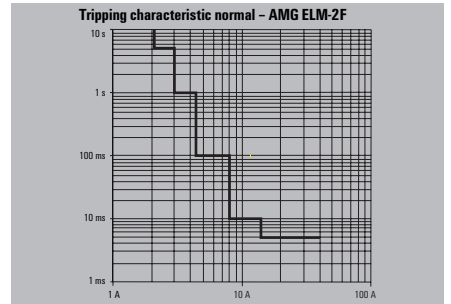
Rated current
Note

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

Accessories

Note

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

Input
Input fuse (internal)
DC input voltage range
Rated input voltage
Current consumption (idle)
Current consumption (full load)
max. admissible residual ripple at the input
Surge protection
General data
Protection degree
Overvoltage category
Signalling
LED yellow
LED red
Floating contact
Status relay (max. load)
Connection data
Number of terminals
Wire cross-section, AWG/kcmil min/max
Wire cross-section, flexible min/max
Wire cross-section, rigid min/max
Screwdriver blade
Approvals
Approvals
Note

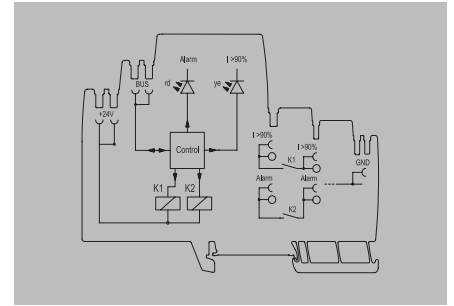
Ordering data

Rated current
Note

Accessories

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

AMG AM



No
18...30 V DC
24 V DC
25 mA
30 mA
100 mVpp
Suppressor diode
General data
IP20
III
Signalling
Current > 90% Inom (flashing)
Alarm
Yes
Alarm (24 V / 0.1 A), I > 90% (24 V / 0.1 A)
Connection data
4 (2 x NO)
26...12
0.14...2.5 mm ²
0.14...2.5 mm ²
0.6 x 3.5
Approvals
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

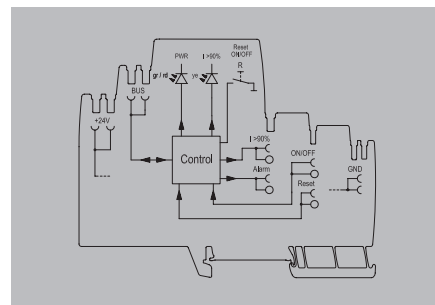
Device Manufacturers

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

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

Ordering data

Rated current	
Note	

Type	Qty.	Order No.
AMG CM	1	2081900000

Accessories

Pluggable cross-connection	
	50-pole
	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

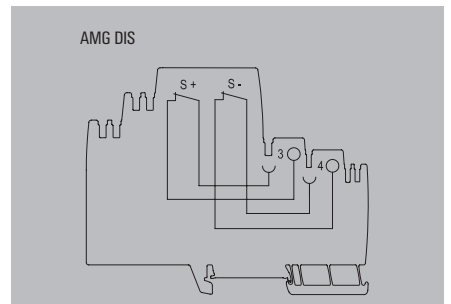
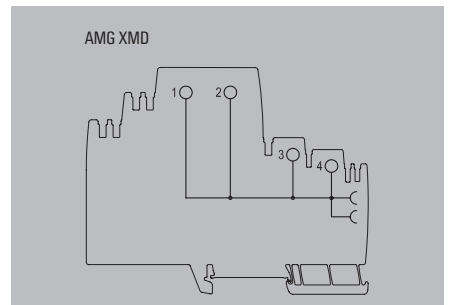
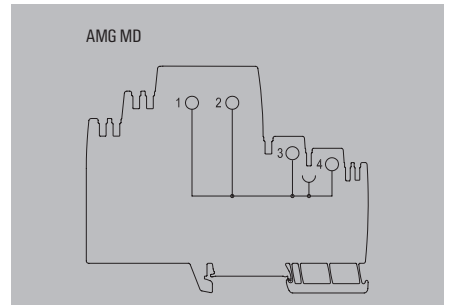
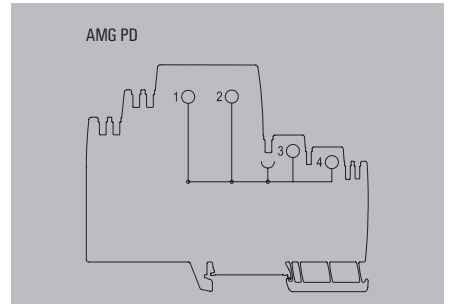
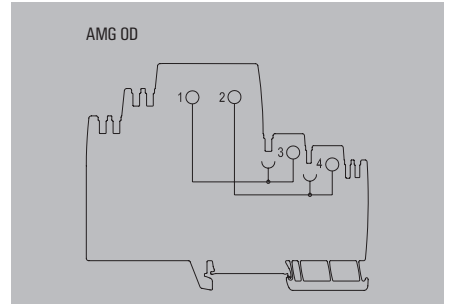
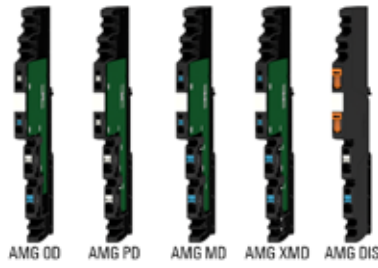
Device Manufacturers

Infrastructure

maxGUARD – Potential distributor

Potential distribution in combination with the electronic load monitoring.

AMG



Technical data

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

Ordering data

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

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

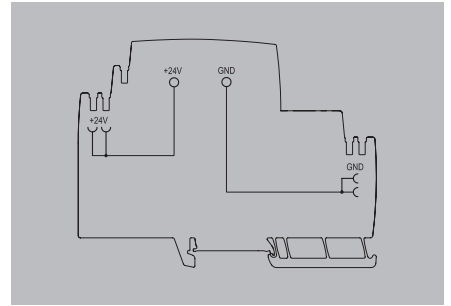
Device Manufacturers

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 ²		
Wire cross-section, rigid min/max	0.75...10 mm ²		
Screwdriver blade	1.2 x 6.5		
Approvals			
Approvals	CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEX		
Note			
Ordering data			
Rated current	Type	Qty.	Order No.
	AMG FIM-0 EX	1	2082530000
Note			

Technical data

Machinery

Process

Energy

Transportation

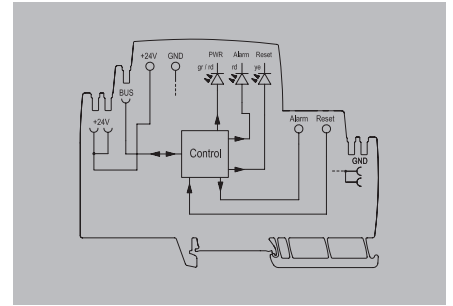
Device
Manufacturers

Infrastructure

maxGUARD – power-feed module

Active power-feed module with reset and alarm function

AMG FIM-C Ex



Technical data

Input	
Input fuse (internal)	No
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	20 mA
Current consumption (full load)	120 mA
max. admissible residual ripple at the input	100 mVpp
Surge protection	Suppressor diode
General data	
Protection degree	IP20
Control inputs	Reset
Overvoltage category	III
Signalling	
LED yellow	External reset is signalled, Alarm is signalled
LED green	Operating voltage OK
LED red	Alarm
Transistor output, positive-switching	Alarm
Connection data	
Number of terminals	2 (+,-)
Wire cross-section, AWG/kcmil min/max	18...6
Wire cross-section, flexible min/max	0.75...16 mm ²
Wire cross-section, rigid min/max	0.75...10 mm ²
Screwdriver blade	1.2 x 6.5
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx
Note	
Ordering data	
Rated current	
Note	

Type	Qty.	Order No.
AMG FIM-C EX	1	2082540000

Technical data

Machinery

Process

Energy

Transportation

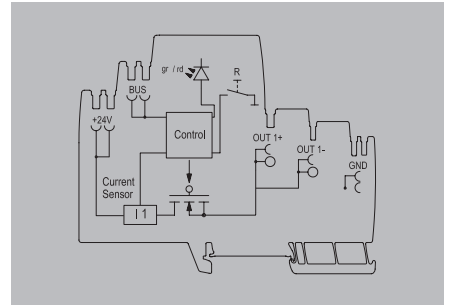
Device Manufacturers

Infrastructure

maxGUARD – load monitoring (fixed value)

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

AMG ELM - xF Ex



Technical data

Machinery

Process

Energy

Transportation

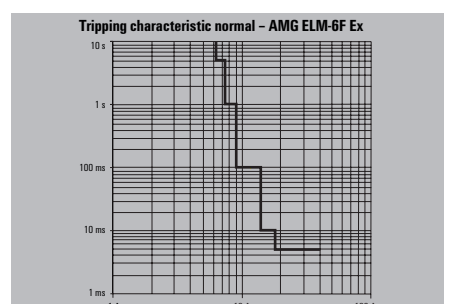
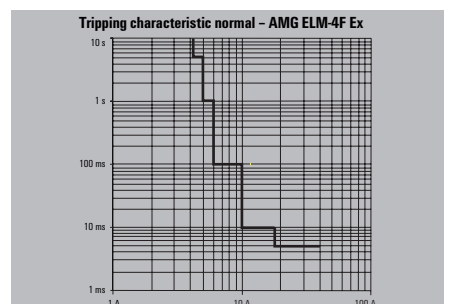
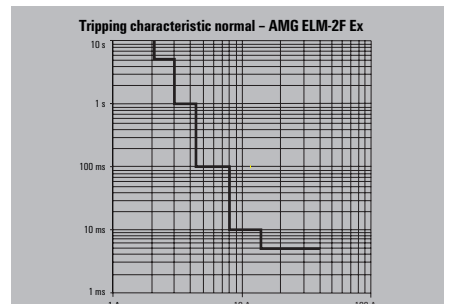
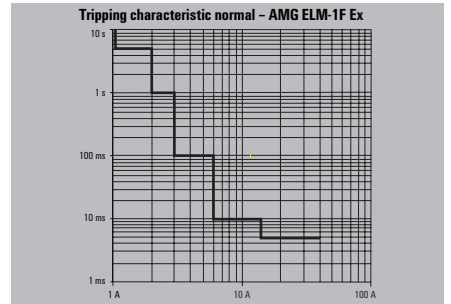
Device Manufacturers

Infrastructure

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
Switch-on delay
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 / 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
1.00 A
2.00 A
4.00 A
6.00 A
Note
Accessories
Note

Yes		
18...30 V DC		
24 V DC		
25 mA / I _{out} +30 mA		
100 mVpp		
PUSH IN		
see characteristic curve		
1 s		
2082040000: 10,000 µF;		
2082050000: 10,000 µF;		
2082060000: 10,000 µF;		
2082310000: 15,000 µF		
Suppressor diode		
LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
Red LED switched off	Red LED switched off	LED green switched on
No		
IP20 / III		
Operation (failure-free)		
Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)		
2 (+ / -)		
26...12		
0.14...2.5 mm ²		
0.14...2.5 mm ²		
0.6 x 3.5		
CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx		
Type	Qty.	Order No.
AMG ELM-1F EX	1	2082040000
AMG ELM-2F EX	1	2082050000
AMG ELM-4F EX	1	2082060000
AMG ELM-6F EX	1	2082310000
Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000



maxGUARD – load monitoring (fixed value)

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

Technical data

Input

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

Output

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

Function key

LED initial state

Pressing the button

LED, subsequent state
Output, subsequent state

General data

- Relay to activate the output
- Protection degree
- 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_{OUT} +30 mA
- 100 mVpp
- Suppressor diode

Output

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

LED green, in operation	LED flashing red, load monitoring has triggered (disconnected)	LED red (permanently lit)
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> 0.1 to 2 s (manual disconnect)	> 0.1 to 2 s (confirm and reset)	> 0.1 to 2 s (restart)
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Red LED switched off	Red LED switched off	LED green switched on
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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 mm²

Wire cross-section, rigid min/max

0.14...2.5 mm²

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

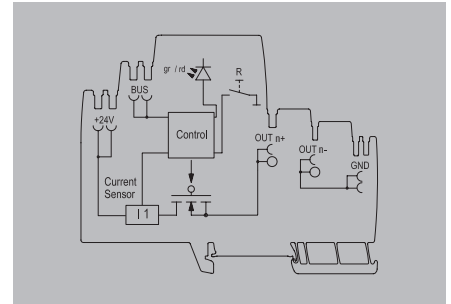
Type	Qty.	Order No.
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AMG DIS	10	2123050000
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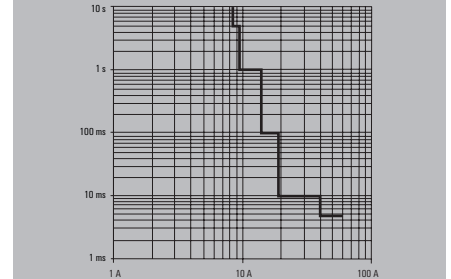
AMG MD	10	2122930000
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AMG OD	10	2122910000
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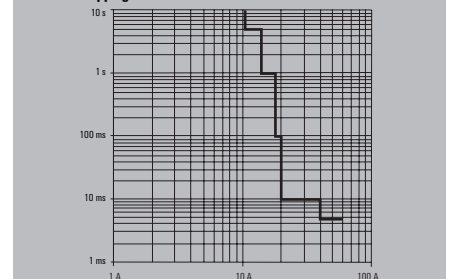
AMG PD	10	2122920000
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Tripping characteristic normal – AMG ELM-8F Ex



Tripping characteristic normal – AMG ELM-10F Ex



Technical data

Machinery

Process

Energy

Transportation

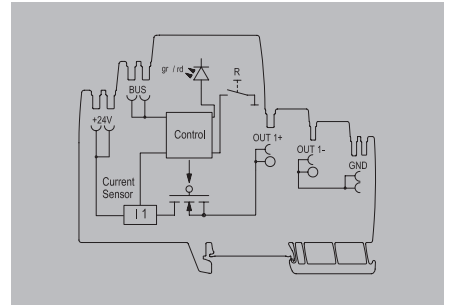
Device Manufacturers

Infrastructure

maxGUARD – load monitoring adjustable

Electronic load monitoring with adjustable triggering current and triggering characteristic

AMG ELM-6 Ex



Technical data

Machinery

Process

Energy

Transportation

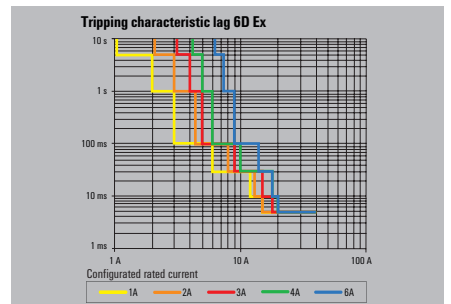
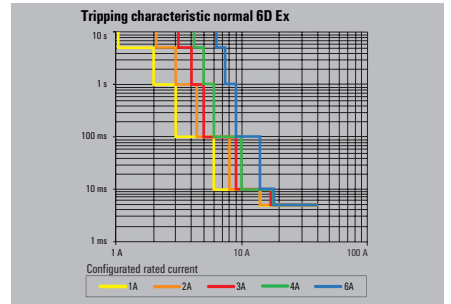
Device Manufacturers

Infrastructure

Technical data

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

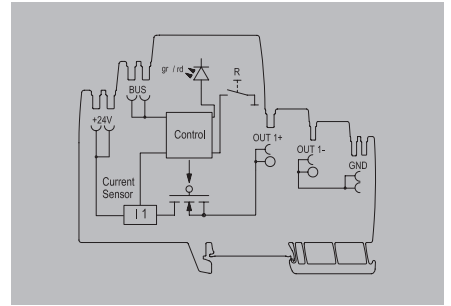
Type	Qty.	Order No.
AMG ELM-6 EX	1	2082000000
Accessories		
Type	Qty.	Order No.
AMG DIS	10	2123050000
AMG MD	10	2122930000
AMG OD	10	2122910000
AMG PD	10	2122920000



maxGUARD – load monitoring adjustable

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

AMG ELM-12 Ex



Technical data

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

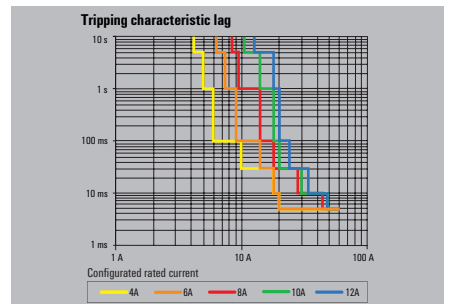
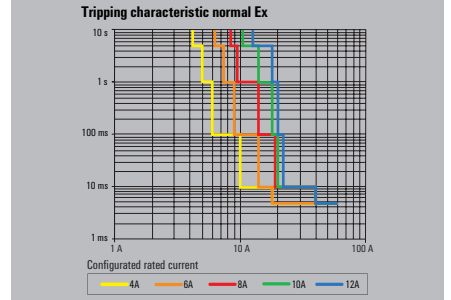
Ordering data

Rated current	12.00 A
Note	

Accessories

Note	
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Tripping characteristic normal Ex
Tripping characteristic lag



Type	Qty.	Order No.
AMG ELM-12 EX	1	2082010000

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

Technical data

Machinery

Process

Energy

Transportation

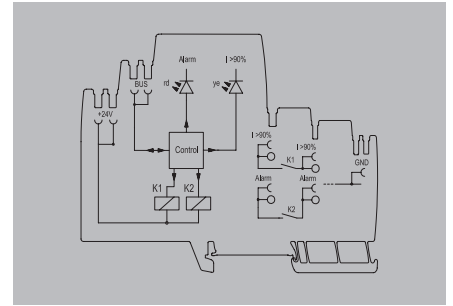
Device Manufacturers

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 ²
Wire cross-section, rigid min/max	0.14...2.5 mm ²
Screwdriver blade	0.6 x 3.5
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEX

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

Note

Ordering data

Rated current	
Note	

Type	Qty.	Order No.
AMG AM CO	1	2082770000

Accessories

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

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

Technical data

Machinery

Process

Energy

Transportation

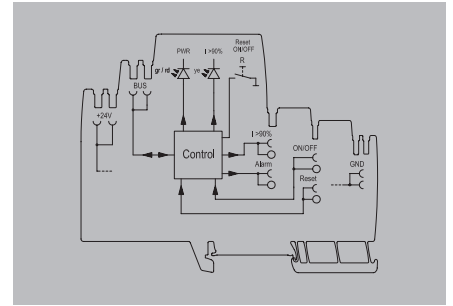
Device Manufacturers

Infrastructure

maxGUARD – control module

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

AMG CM Ex



Technical data

Input	
DC input voltage range	18...30 V DC
Rated input voltage	24 V DC
Current consumption (idle)	25 mA
Current consumption (full load)	225 mA
max. admissible residual ripple at the input	100 mVpp
Output	
Connection system	PUSH IN
Surge protection	Suppressor diode
General data	
Relay to activate the output	No
Protection degree	IP20
Control inputs	ON/ OFF, Reset
Overvoltage category	III
Signalling	
LED green	Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)
LED red	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
Transistor output, positive-switching	Pre-warning, Alarm
Connection data	
Number of terminals	2 (Reset / ON)
Wire cross-section, AWG/kcmil min/max	26...12
Wire cross-section, flexible min/max	0.14...2.5 mm ²
Wire cross-section, rigid min/max	0.14...2.5 mm ²
Screwdriver blade	0.6 x 3.5
Approvals	
Approvals	CE, TÜV (60950), cULus, UL 2367, GL-DNV, BV, ABS, LR, RINA, ISA 12.12.01, ATEX, IECEx
Note	

Ordering data

Rated current	
Note	

Type	Qty.	Order No.
AMG CM EX	1	2083360000

Accessories

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

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

Technical data

Machinery

Process

Energy

Transportation

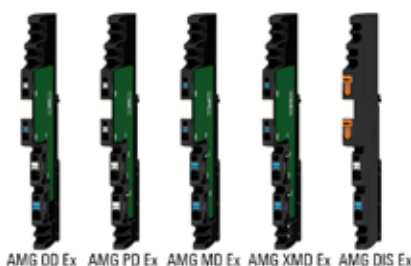
Device Manufacturers

Infrastructure

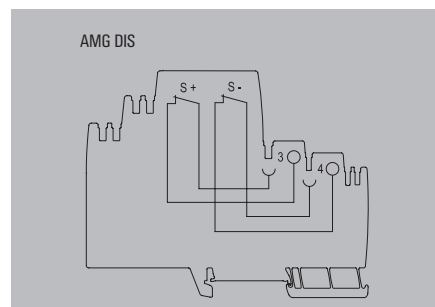
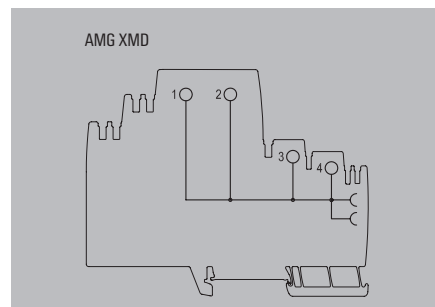
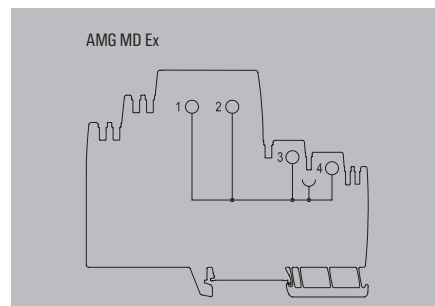
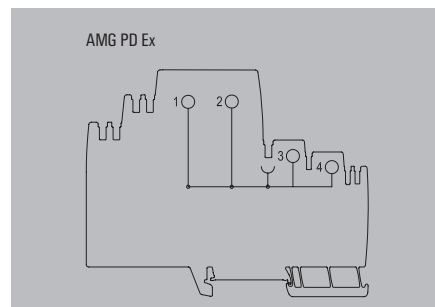
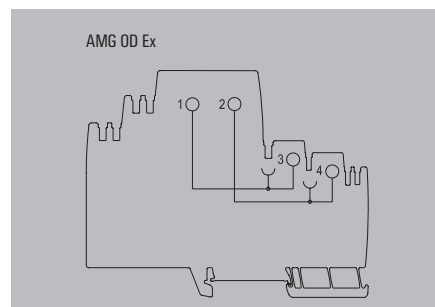
maxGUARD – Potential distributor

Potential distribution in combination with the electronic load monitoring.

AMG



AMG OD Ex AMG PD Ex AMG MD Ex AMG XMD Ex AMG DIS Ex



Technical data

General data

Protection degree
Total current load per potential

IP20

2495090000: 12 A;
2495070000: 12 A;
2495040000: 12 A;
2495080000: 24 A;
2495100000: 12 A

Current load per contact point

12 A

Connection data

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

PUSH IN
2 x 1.5 mm², 2 x 2.5 mm²
26...12
0.14...2.5 mm²
0.14...2.5 mm²
0.6 x 3.5

Approvals

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

Note

Ordering data

Type	Qty.	Order No.
AMG OD EX	1	2495090000
AMG PD EX	1	2495070000
AMG MD EX	10	2495040000
AMG XMD EX	1	2495080000
AMG DIS EX	1	2495100000

Note

Accessories

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

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

Note

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

maxGUARD – accessories

Cross-connector orange



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

Cross-connector blue



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

Cross-connector red



Type	Qty.	Order No.
ZQV 4N/2 RD	60	2460450000
ZQV 4N/3 RD	60	2460810000
ZQV 4N/4 RD	60	2460800000
ZQV 4N/5 RD	60	2460790000
ZQV 4N/6 RD	20	2460780000
ZQV 4N/7 RD	20	2460770000
ZQV 4N/8 RD	20	2460760000
ZQV 4N/9 RD	20	2460750000
ZQV 4N/10 RD	20	2460740000
ZQV 4N/50 RD	5	2460730000

maxGUARD – accessories

End plate and Separation plate



Type	Qty.	Order No.
AMG PP	40	2123000000
AMG EP	30	2495380000
AMG EP KIT	1	2500760000

End brackets



Type	Qty.	Order No.
WEW 35/2 SW	100	1061210000
WEW 35/2 V0 GF SW	100	1479000000

Cutting tool for ZQV



Type	Qty.	Order No.
KT 14	1	1157820000

IO-Link module

- Connection for 4 IO-Link devices
- IO-Link standard according to IEC 61131-9
- Protocol support IO-Link v.1.0 and v.1.1
- Automatic communication via COM 1, COM 2 and COM 3
- Max. 20 m wire length
- Internal data width 4-32 bytes, configurable

UR20-4COM-IO-LINK



Technical data

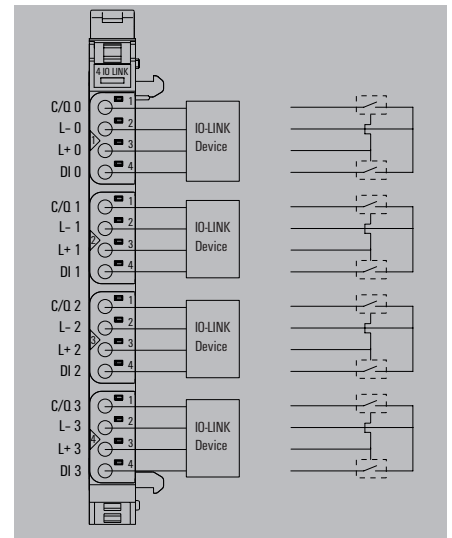
System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48
Galvanic isolation	500 V DC between the current paths
Supply	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption I _m (power segment of the field bus coupler), typ.	8 mA
Current consumption I _m (the respective power segment)	25 mA + sensor feed
IO-Link-Interface	
Number	4
Connection type	IO-Link
Output current	0.1 A C/Q (DO MODE), 0.5 A L+
IO link standard	IEC 61131-9
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Class	A
Digital inputs	
Number	4
Type	Types 1 and 3, EN 61131-2
Input voltage, low	< 5 V
Input voltage, high	> 11 V
General data	
Weight	88 g
Dimensions H x W x D	120 / 11.5 / 76 mm
Note	

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.
Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
Connection marker for pusher custom printing	192	1323700000
Connection marker for pusher neutral	960	1323710000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (material: polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
Replacement parts		
Electronic module	1	1347340000
Basic module	5	1350930000
Plug-in connector unit	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 _{in} (input current path) , max.	10 A
Feed current for I _{out} (output current path) , max.	10 A
Current consumption I _m (power segment of the field bus coupler), typ.	112 mA
General data	
Weight	319 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	

24 V DC +20%/ -15%	24 V DC +20%/ -15%	10 A	10 A	112 mA
319 g	120 mm / 52 mm / 76 mm			

Ordering data

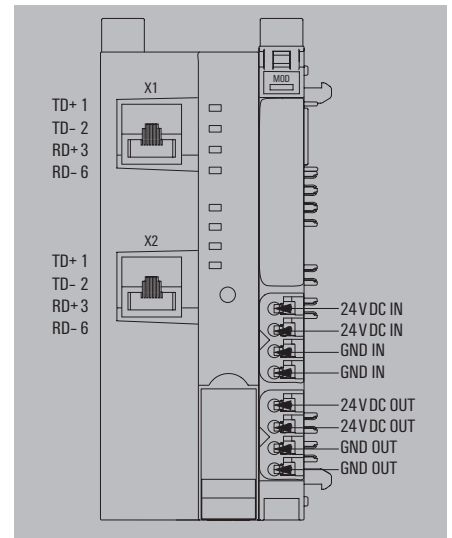
Module variants	
	Field bus coupler, ModbusTCP
Note	

Type	Qty.	Order No.
UR20-FBC-MOD-TCP-V2	1	2476450000
A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Coding elements
	Termination kit
	Swivel marker
	Connection marker for pusher custom printing
	Connection marker for pusher neutral
	Module marker for custom printing
	Module marker for neutral
	Thermotransfer version (Material: Polyester)
	Thermotransfer version (material: polyester)
	Paper version for Laserprinter
	USB cable (USB A to Micro USB)
Replacement parts	
	Plug-in connector unit
Note	

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESD UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-2476450000-SP	5	2485280000
1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2476450000



Let's connect.

Approvals for the use in marine- and offshore-applications

u-remote has been approved for use in the maritime and offshore sector: DNV GL (formerly Det Norske Veritas and Germanischer Lloyd), Bureau Veritas (BV), Lloyds Register (LR) and Registro Italiano Navale (RINA) are the first international classification societies to certify the use of the innovative remote I/O system in this demanding environment. The certification is valid for almost all areas on a ship, including the ship's bridge, which is subject to particularly high demands.

u-remote's robust design is suited to both the sensitive and harsh environmental conditions found on a ship, as well as a wide range of temperatures (-20°C to 60°C). It can withstand high levels of humidity (up to 100%), intense vibration (up to 4 g) and high-energy electromagnetic fields, without emitting high levels of radiation that could affect other devices.

Type	Order No.	DNV/GL	BV	LR	RINA	ABS
UR20-FBC-PB-DP	1334870000	x*	x*	x*	x*	x*
UR20-FBC-PN-IRT	1334880000	x*	x*	x*	x*	x*
UR20-FBC-EC	1334910000	x	x	x	x	x*
UR20-FBC-MOD-TCP	1334930000					
UR20-FBC-MOD-TCP-V2	2476450000	x	x	x	x	x*
UR20-FBC-DN	1334900000	x*	x*	x*	x*	x*
UR20-FBC-CAN	1334890000	x	x	x	x	x*
UR20-FBC-EIP	1334920000	x*	x*	x*	x*	x*
UR20-FBC-PL	1334940000	x	x	x	x	x*
UR20-4DI-P	1315170000	x	x	x	x	x*
UR20-8DI-P-2W	1315180000	x	x	x	x	x*
UR20-8DI-P-3W	1394400000	x	x	x	x	x*
UR20-16DI-P	1315200000	x	x	x	x	x*
UR20-16DI-P-PLC-INT	1315210000	x	x	x	x	x*
UR20-4DI-P-TS	1460150000	x	x	x	x	x*
UR20-4DI-N	1315350000	x	x	x	x	x*
UR20-8DI-N-3W	1315370000	x	x	x	x	x*
UR20-16DI-N	1315390000	x	x	x	x	x*
UR20-16DI-N-PLC-INT	1315400000	x	x	x	x	x*
UR20-4DI-2W-230V-AC	1550070000	x	x	x	x	x*
UR20-4DO-P	1315220000	x	x	x	x	x*
UR20-4DO-P-2A	1315230000	x	x	x	x	x*
UR20-4DO-PN-2A	1394420000	x	x	x	x	x*
UR20-8DO-P	1315240000	x	x	x	x	x*
UR20-16DO-P	1315250000	x	x	x	x	x*
UR20-16DO-P-PLC-INT	1315270000	x	x	x	x	x*
UR20-4DO-N	1315410000	x	x	x	x	x*
UR20-4DO-N-2A	1315420000	x*	x*	x*	x*	x*
UR20-8DO-N	1315430000	x	x	x	x	x*
UR20-16DO-N	1315440000	x	x	x	x	x*
UR20-16DO-N-PLC-INT	1315450000	x	x	x	x	x*
UR20-4RO-SSR-255	1315540000	x	x	x	x	x*
UR20-4RO-CO-255	1315550000	x	x	x	x	x*
UR20-1CNT-100-100	1315570000	x	x	x	x	x*
UR20-1CNT-500	1315580000	x*	x*	x*	x*	x*
UR20-2CNT-100	1315590000	x*	x*	x*	x*	x*
UR20-2FCNT-100	1508080000	x*	x*	x*	x*	x*
UR20-1SSI	1508090000	x*	x*	x*	x*	x*
UR20-1COM-232-422-485	1315750000	x	x	x	x	x*
UR20-2PWM-PN-0.5A	1315600000					
UR20-2PWM-PN-2A	1315610000					
UR20-4AI-UI-12	1394390000	x*	x*	x*	x*	x*
UR20-4AI-UI-16	1315620000	x*	x*	x*	x*	x*
UR20-4AI-UI-16-DIAG	1315690000	x*	x*	x*	x*	x*
UR20-4AI-UI-DIF-16-DIAG	1993880000	x*	x*	x*	x*	x*
UR20-8AI-I-PLC-INT	1315670000	x*	x*	x*	x*	x*
UR20-2AI-SG-24-DIAG	1990070000	x*	x*	x*	x*	x*
UR20-4AI-TC-DIAG	1315710000	x	x	x	x	x*
UR20-4AI-RTD-DIAG	1315700000	x	x	x	x	x*
UR20-3EM-230V-AC	2007420000	x*	x*	x*	x*	x*
UR20-4AO-UI-16-M	2453880000	x*	x*	x*	x*	x*
UR20-4AO-UI-16-M-DIAG	2453870000	x*	x*	x*	x*	x*
UR20-PF-I	1334710000	x	x	x	x	x*
UR20-PF-O	1334740000	x	x	x	x	x*
UR20-PF-O-1DI-SIL	1335030000	x*	x*	x*	x*	x*
UR20-PF-O-2DI-DELAY-SIL	1335040000	x*	x*	x*	x*	x*
UR20-PF-O-2DI-SIL	1335050000	x*	x*	x*	x*	x*
UR20-16AUX-I	1334770000	x	x	x	x	x*
UR20-16AUX-O	1334780000	x	x	x	x	x*
UR20-16AUX-FE	1334790000	x	x	x	x	x*
UR20-16AUX-GND-I	1334800000	x	x	x	x	x*
UR20-16AUX-GND-O	1334810000	x	x	x	x	x*
UR20-ES	1315770000	x*	x*	x*	x*	x*
Hinweis	* Approval is only available as of Q3/2017					

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

POWERLINK

- 2 x 10 A current paths
- Address can be set using rotary switch
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-PL



Technical data

System data	
Connection type	2 x RJ45 plug-in connectors
Field bus protocol	POWERLINK
Process data	2980 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage system and inputs	24 V DC +20%/-15%
Supply voltage for outputs	24 V DC +20%/-15%
Feed current for I _{IN} (input current path) , max.	10 A
Feed current for I _{OUT} (output current path) , max.	10 A
Current consumption I _{IN} (power segment of the field bus coupler), typ.	100 mA
General data	
Weight	318 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	
Download of XDD-files on www.weidmueller.com	

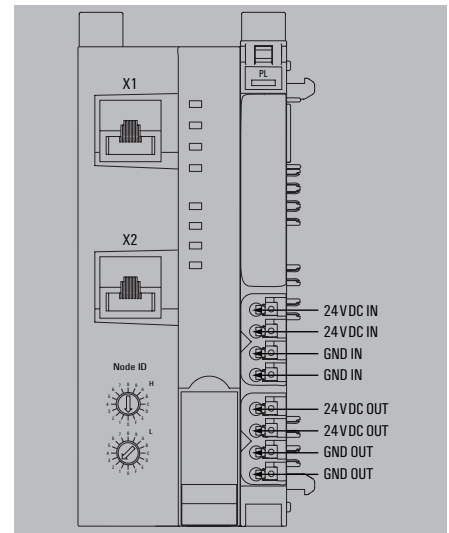
Ordering data

Module variants	
Type	UR20-FBC-PL
Qty.	1
Order No.	1334940000
Note	
A termination kit (UR20-EBK-ACC) is included in the coupler package	

Accessories

Type	Qty.	Order No.
Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
Connection marker for pusher custom printing	192	1323700000
Connection marker for pusher neutral	960	1323710000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (material: polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
USB cable (USB A to Micro USB)	1	1487980000
Replacement parts		
Plug-in connector unit	5	2425170000
Note		

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-1334940000-SP	5	2425170000



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-1334940000



Let's connect.

2AI-SG-24-DIAG

- 2 differential inputs for DMS
- 24-bit resolution
- 4- or 6-wire connection
- Accuracy ±0.01% FSR
- Individual channel diagnosis

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption I _m (power segment of the field bus coupler), typ.	8 mA
Current consumption I _m (the respective power segment)	35 mA
Analogue inputs	
Number	2
Input value	Differential, to evaluate a strain gauge full-bridge
Resolution	24 bit per channel
Accuracy	Customer calibration: ±0.01% FSR (100 ppm), ±1% FSR (with interference)
Supported sensor sensitivity	0.5 mV - 30 V, parameterisable
Temperature coefficient	< 5 ppm/K
Permissible sensor load	85 ... 5000 Ω
Conversion time	5 - 800 ms, parameterisable
Measurement range	± 150 mV
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Digital inputs	
Input filter	10 ms
Input voltage, high	> 11 V
Input voltage, low	< 5 V
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Type	Types 1 and 3, EN 61131-2
General data	
Weight	89.7 g
Dimensions H x W x D	11.5 mm / 120 mm / 76 mm
Note	

Ordering data

Module variants	
	Strain gauge module, 2 channels
Note	

Accessories

	Coding elements
	Termination kit
	Swivel marker
Connection marker for pusher custom printing	
Connection marker for pusher neutral	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (material: polyester)	
Paper version for Laserprinter	
Replacement parts	
	Electronic module
	Basic module
	Plug-in connector unit
Note	

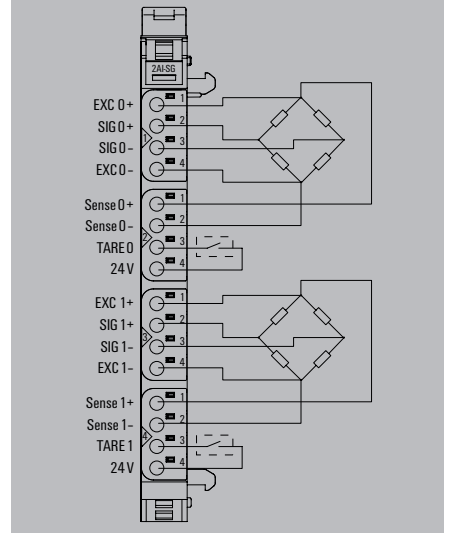
UR20-2AI-SG-24-DIAG



System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Supply voltage	24 V DC +20%/-15%, via the system bus
Current consumption I _m (power segment of the field bus coupler), typ.	8 mA
Current consumption I _m (the respective power segment)	35 mA
Analogue inputs	
Number	2
Input value	Differential, to evaluate a strain gauge full-bridge
Resolution	24 bit per channel
Accuracy	Customer calibration: ±0.01% FSR (100 ppm), ±1% FSR (with interference)
Supported sensor sensitivity	0.5 mV - 30 V, parameterisable
Temperature coefficient	< 5 ppm/K
Permissible sensor load	85 ... 5000 Ω
Conversion time	5 - 800 ms, parameterisable
Measurement range	± 150 mV
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Digital inputs	
Input filter	10 ms
Input voltage, high	> 11 V
Input voltage, low	< 5 V
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Type	Types 1 and 3, EN 61131-2
General data	
Weight	89.7 g
Dimensions H x W x D	11.5 mm / 120 mm / 76 mm
Note	

Type	Qty.	Order No.
UR20-2AI-SG-24-DIAG	1	1990070000

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
UR20-EM-1990070000-SP	5	1562260000
UR20-BM-SP	5	1350930000
UR20-PK-1990070000-SP	5	2068620000



Product standard	IEC 61131-2, IEC61010-2-201
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-1990070000



Let's connect.

PROFINET
Remote I/O for digital signal conditioning



UR67-PN-HP-8IOL-12-30M



UR67-PN-HP-8IOL-12-60M



Ordering data

Module variants
IO-Link, 4x Type A, 4x Type B
Note

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-30M	1	2426250000
Note		

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-60M	1	2426260000
Note		

Connections
Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections
Voltage supply
Operating voltage
Power consumption of module electronics
Digital inputs
IO link standard
Galvanic isolation
Input current, low
Input current, high
Reverse polarity protection
Short-circuit protection
Overload protection
Status indicator
Diagnostic display
Digital outputs
max. current-carrying capacity per output signal
Output voltage, low
Output voltage, high
Max. total current outputs
Reverse polarity protection
Short-circuit protection
Overload protection
Status indicator
Diagnostic display
Fieldbus
Bus system
Transmission rate
Addressing
General data
L x W x H
Weight
Protection degree
Operating temperature
Housing main material / UL 94 flammability rating

1x M12 female 4-pole, D-coded
1x M12 female 4-pole, D-coded
1x M12 plug 5-pole, L-coded
1x M12 socket 5-pole, L-coded
8 x M12 socket 5-pole, A-coded
24 V (18 V DC ... 30 V DC)
160 mA typical
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
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
PROFINET V2.3
10/100 Mbit/s
DCP
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
24 V (18 V DC ... 30 V DC)
160 mA typical
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
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
PROFINET V2.3
10/100 Mbit/s
DCP
200 mm / 59.6 mm / 17.6 mm
500 g
IP67
-20 °C...70 °C
Zinc diecast / UL 94

Note

Note

Note

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

FieldPower® Box with maintenance switch and fuses

- 5-pole power distribution 3~, N, PE
- Lockable maintenance switch acc. to IEC 60947-3
- Fuse terminal block for three safety fuses
- With local LED failure indicator and failure message via M12 (PIN 1 = external 24 V DC ± 20%, PIN 2 = switch, PIN 3 = GND, PIN 4 = fuse)
- Depending on configuration for safety fuses type CC or type 10 x 38 mm (max. 32 A)
- Max. 3 W for gG/gL, max. 1.2 W for aM depending on the ambient temperature

FP Box ON/OFF16A FUSE R



Technical data

General data	
Dimensions	181 / 192 / 165 mm
Ambient temperature	-25 °C...+45 °C
Temperature range, assembly, min. / max.	10...40 °C
Storage temperature	-25 °C...70 °C
Material colour	Black
Protection degree	IP65
Insulating material	Polycarbonate
UL 94 flammability rating	5VA
Rated voltage	400 V
Rated impulse withstand voltage	4 kV
IDC connection for power distribution	
Rated current	41 A
Rated current branch	16 A
Clamping range, rated connection, min./max.	2.5 / 6 mm ²
Blade size	0.6 x 3.5 mm
PUSH IN connection distribution	
Clamping range, rated connection, min./max.	0.5...6 mm ²
Connection cross-section, flexible, min. / max.	0.5...10 mm ²
Blade size	0.6 x 3.5 mm
Stripping length, PUSH IN connection	14 mm
Technical data switch	
Rated current AC-23A	16 A
Clamping range, rated connection, min./max.	0.75 / 10 mm ²
Terminals - torque	0.8 Nm
Technical data of fuse holder	
Cartridge fuse	10 x 38 mm
Note	

Ordering data

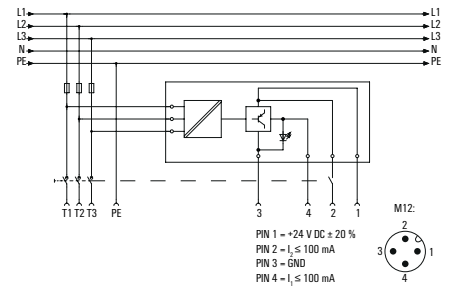
Type	Qty.	Order No.
FP Box ON/OFF16A FUSE R	1	8000028513

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
Note		





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



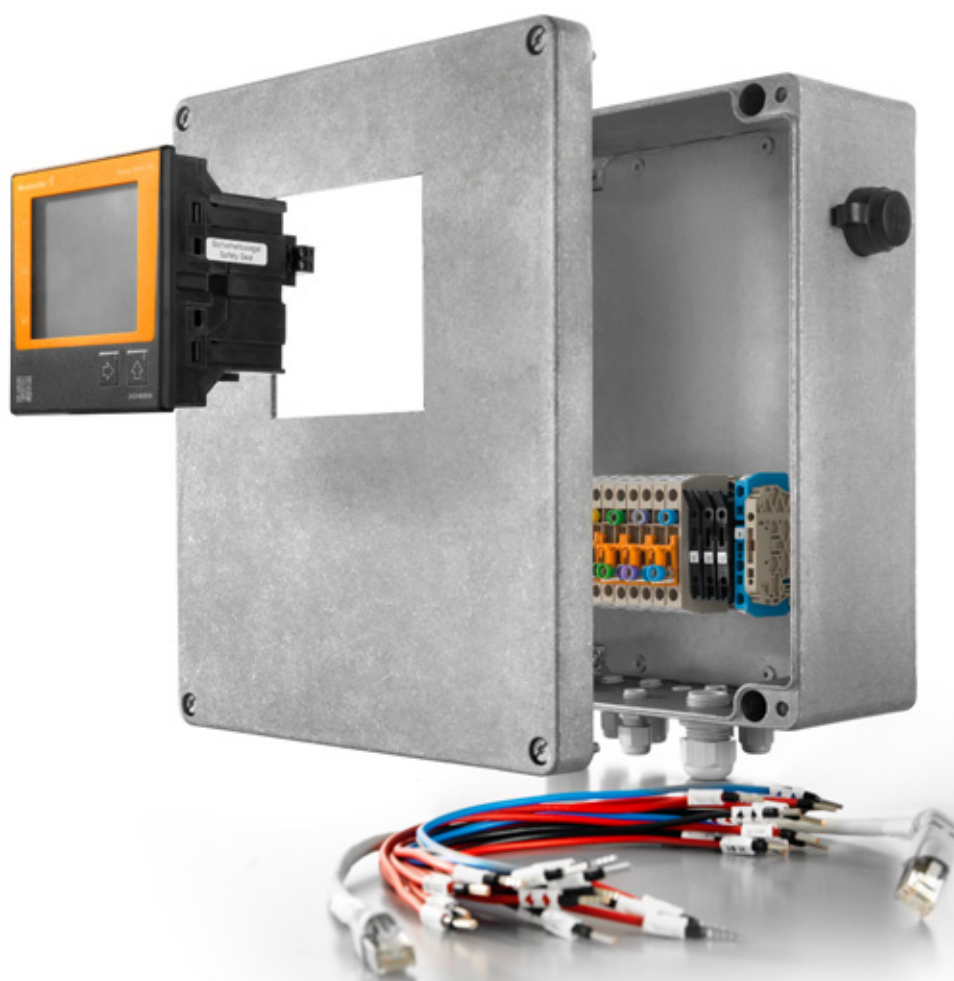
Machinery

Technical data

Energy management – Connectivity Boxes

Ordering data

Type	Degree of protection	Dimensions (h x w x d)	Material	Order No.
EM-Connectivity-Box 96	IP 54	310 x 230 x 111 mm	Aluminium	8000028950
EM-Connectivity-Box TS	IP 65	310 x 230 x 111 mm	Aluminium	8000028951
EM-Connectivity-Box 144	IP 42	430 x 250 x 120 mm	Plastic	8000028952
LST EM-BLOCK*				8000028895
Note	* Test-disconnect terminal blocks with fuse mounted on terminal rail			



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Energy analysis instruments

Energy Analyser D550-24



Technical data

Supply voltage	20 ... 50 V AC ±10%, 20 ... 70 V DC ±10%
General data	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
Voltage quality measurement	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
Measurement data recording	
Memory (Flash)	128 MB
Display and inputs/outputs	
Display	LCD with backlit display, 2 keys
Digital inputs	2
Digital outputs	2 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	1
Communication	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals), Ethernet 10/100 Base-TX (RJ-45 socket), RS232: 9.6 - 115.2 kbps
Protocol	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP
Measuring-voltage input	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
Measuring-current input	
Rated current	1 / 5 A
Note	

Supply voltage	20 ... 50 V AC ±10%, 20 ... 70 V DC ±10%
General data	
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh, .../5 A)	Class 0.5S
Voltage quality measurement	
Harmonics, per order / current	1-40.
Harmonics, per order / voltage	1-40.
Distortion factor THD-U in %	Yes
Distortion factor THD-I in %	Yes
Measurement data recording	
Memory (Flash)	128 MB
Display and inputs/outputs	
Display	LCD with backlit display, 2 keys
Digital inputs	2
Digital outputs	2 as switch or pulse output
Temperature measurement input (PT100, PT1000, KTY83, KTY84)	1
Communication	
Interface	RS485: Autobaud, 9.6 - 115.2 kbps (pluggable screw terminals), Ethernet 10/100 Base-TX (RJ-45 socket), RS232: 9.6 - 115.2 kbps
Protocol	
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP, Modbus RTU over Ethernet (Port 8000), TFTP
Measuring-voltage input	
Measurement range, voltage L-N, AC (without converter)	10...600 Vrms
Measurement range, voltage L-L, AC (without converter)	18...1000 Vrms
Measuring-current input	
Rated current	1 / 5 A
Note	

Ordering data

Note

Type	Qty.	Order No.
ENERGY ANALYSER D550-24	1	2489780000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



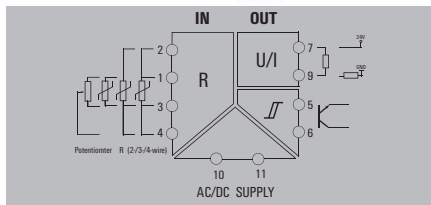
Infrastructure



Resistance measurement transducer with limit relay

- Configurable from buttons and display
- Monitoring of resistance changes(e.g: motor winding / heating resistors)
- Analogue and digital output
- Removable terminals

ACT20P-PRO-RTCI-AO-DO



Technical data

Input

Number of inputs
 Input resistance
 Potentiometer

Output (digital)

Number of outputs
 Alarm function

Type
 Rated switching voltage
 Rated switching current

Output (analogue)

Type (analogue output)
 Output voltage
 Output current

General data

Configuration
 Accuracy
 Step response time
 Temperature coefficient
 Supply voltage
 Power consumption

Insulation coordination

EMC standards
 Standards
 Insulation voltage
 Rated voltage
 Impulse withstand voltage
 Pollution degree
 Overvoltage category

1

0... 15 kΩ

10... 150 kΩ

1

configurable, Top and bottom limit values, window range, Short circuit at input, Alarm delay: 0...10 s, Hysteresis: 10 V

NPN-Transistor, Switching frequency 5 kHz

24 VDC ±30%

100 mA

Voltage and current output (configurable)

0...5 V, 0...5 V, 0...10 V, -5...+5 V, -10...+10 V

-20...+20 mA, ± 10mA, 0...20 mA

with push-buttons and display

< ±0.1 % of span

2- / 4- wire: 320 ms., 3- wire / Poti: 640 ms

≤ 0.02 % / °C, ≤ 200 ppm/K

24...230 V DC ±15%, 24...230 V AC ±15% @48...62 Hz

≤ 2.6 W

EN 61326-1

EN 61010-1

4 kV_{eff} / 1 min.

600 V

5 kV (1.2/50 μs)

2

II

Dimensions

Clamping range (nominal / min. / max.) mm²
 Depth / Width / Height mm

Note

Pluggable screw connection

2.5 / 0.5 / 2.5
 113.7 / 12.5 / 117.2

Ordering data

Channel
 PUSH IN connection
 Screw connection

Note

Type	Qty.	Order No.
ACT20P-PRO-RTCI-AO-DO-P	1	2448110000
ACT20P-PRO-RTCI-AO-DO-S	1	2448100000

Accessories

Note

Technical data

Machinery

Process

Energy

Transportation

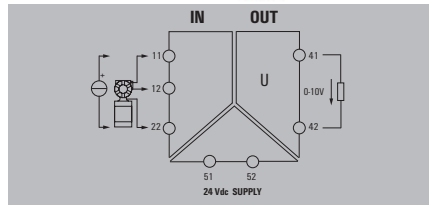
Device Manufacturers

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 ²	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

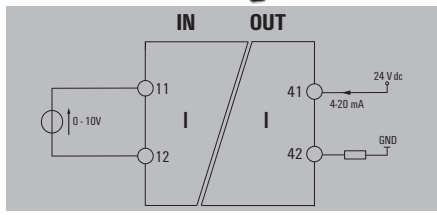
Device Manufacturers

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

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

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

Ordering data

Input voltage	
0...10 V	
0...5 V	
Note	

Type	Qty.	Order No.
ACT20P-VI-CO-OLP	1	7760054121
ACT20P-VI1-CO-OLP	1	7760054120

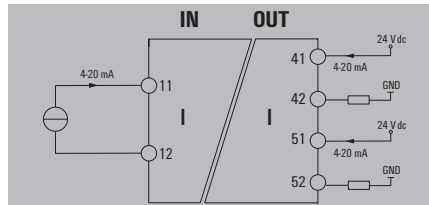
Accessories

Note	
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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. 600Ω 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 ²
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

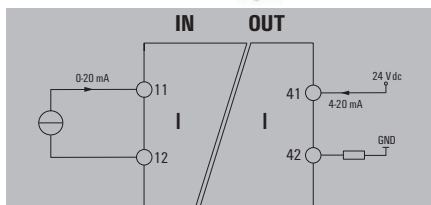
Device Manufacturers

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

Dimensions			
Clamping range (nominal / min. / max.)	mm ²		
Depth / Width / Height	mm		
Note			
Pluggable screw connection			
2.5 / 0.5 / 2.5			
114 / 12.5 / 117.2			
Note			
Ordering data			
Input current	Type	Qty.	Order No.
0...20 mA	ACT20P-CI1-CO-OLP	1	7760054118
4...20 mA	ACT20P-CI2-CO-OLP	1	7760054119
Note			
Accessories			
Note			

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

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

Ordering data			
Input current	Type	Qty.	Order No.
0...20 mA	ACT20P-CI1-CO-OLP	1	7760054118
4...20 mA	ACT20P-CI2-CO-OLP	1	7760054119
Note			

Type	Qty.	Order No.
ACT20P-CI1-CO-OLP	1	7760054118
ACT20P-CI2-CO-OLP	1	7760054119

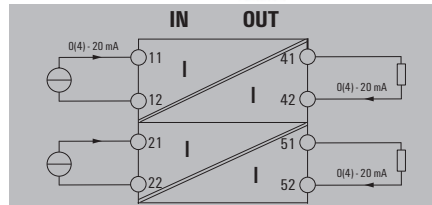
Accessories		
Note		

Note		

Current transformer, input loop powered

- Isolation of DC- signals
- Power supply via the input circuit (input loop powered)
- 1 or 2 channels in one module
- 2-way isolation
- Removable terminals

ACT20P-CI-CO-ILP



Technical data

Input	
Number of inputs	2
Input current	0...20 mA current loop
Sensor	Current source
Voltage drop, current input	3.8 V
Output	
Number of outputs	2
Output current	0...20 mA
load impedance current	≤ 600 Ω
General data	
Galvanic isolation	2-way isolator
Accuracy	< 0.1 % of end value
Temperature coefficient	≤ 100 ppm/K
Supply voltage	Loop powered, via 4...20 mA input
Insulation coordination	
EMC standards	EN 61010-1:2011, UL 61010-1, IEC61000-6-2, IEC 61000-6-4
Insulation voltage	2 kV inputs / outputs
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Pollution degree	2
Overvoltage category	III

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

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

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

Ordering data

Channel	2 channel
	1 channel
Note	

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

Note	

Accessories

Note	

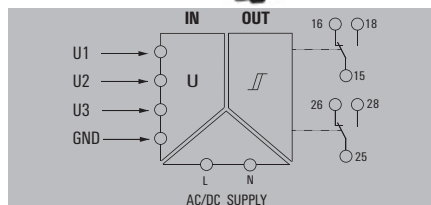
Note	



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 Ω ±5%
Output (digital)	
Number of digital outputs	2
Type	2 x 1 - or 1 x 2 changeover contact relay, Relay polarity can be inverted
Alarm function	Surge voltage, Undervoltage, Voltage window, Holding function can be activated, Alarm delay: 0...10 s
Rated switching current	5 A
Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V
General data	
Configuration	DIP switch and potentiometer
Accuracy	3% * $U_{\text{rated voltage}}$
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 μ s
Pollution degree	2
Overvoltage category	III
Standards	EN 50178
Dimensions	
Clamping range (nominal / min. / max.)	1.5 / 0.5 / 2.5
Depth / Width / Height	114.3 / 22.5 / 117
Note	

Pluggable screw connection		
Type	Qty.	Order No.
ACT20P-VMR-1PH-H	1	7760054164
Note		

Ordering data

Note	
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Accessories

Note	
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Technical data

Machinery

Process

Energy

Transportation

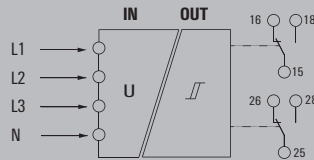
Device Manufacturers

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 _{rated voltage}
Measurement calibration	max: 70...120% *U _{rated voltage} , min: 50...100% *U _{rated voltage}
Unbalanced	Hysteresis: 5%, Phase imbalance in range of adjustment: 5...25%, OFF
Repeat accuracy	2% *U _{rated voltage}
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 ²
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



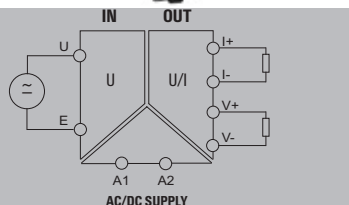
Infrastructure



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.) mm²
Depth / Width / Height mm

Pluggable screw connection

1.5 / 0.5 / 2.5
114.3 / 22.5 / 117

Note

Ordering data

Type	Qty.	Order No.
ACT20P-VM-A0-S	1	7760054306

Note

Accessories

Note CBX 200

Technical data

Machinery

Process

Energy

Transportation

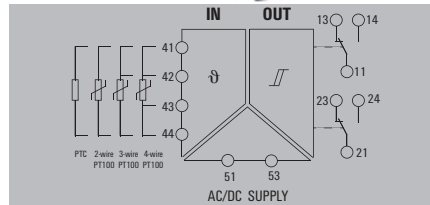
Device Manufacturers

Infrastructure

Temperature monitoring

- Temperature monitoring of PT100 sensors or PTC
- Temperature range can be selected
- 2 relays with CO contacts
- Limit value can be set with software configuration

ACT20P-TMR-RTI-S



Technical data

Input		
Number of inputs	1	
Sensor	PT100 / 2-/3-/4-wire, PTC: 0...4 kΩ	
Temperature input range	Configurable, PT100: -200°C...850°C	
Output (digital)		
Number of outputs	2	
Type	2 x 1 - or 1 x 2 changeover contact relay	
Alarm function	Alarm range: -200...850 °C, Top and bottom limit values, window range, Hysteresis: 2 °C (adjustable), Alarm delay: 0...10 s	
Rated switching current	5 A	
Max. switching voltage, AC	250 V	
Max. switching voltage, DC	30 V	
General data		
Configuration	With FDT/DTM software	
Accuracy	0.2% FSR, ≤ 2 °C (PT100), ≤ 8 Ω (PTC)	
Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC	
Step response time	≤ 500 ms	
Temperature coefficient	≤ 100 ppm/K	
Supply voltage	20...264 VUC	
Insulation coordination		
EMC standards	IEC 61326-1	
Galvanic isolation	3-way isolator, between input/output/supply	
Insulation voltage	2 kV (Input/Output), 1 min, 50 Hz	
Impulse withstand voltage	4 kV (1.2/50 μs)	
Pollution degree	2	
Overvoltage category	III	
Rated voltage	300 V	
Standards	IEC 61010-1	
Dimensions		
Clamping range (nominal / min. / max.)	mm ²	
Depth / Width / Height	mm	
Note		
Ordering data		
Type	Qty.	Order No.
ACT20P-TMR-RTI-S	1	7760054305
Note		
Accessories		
Note	CBX 200	

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

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



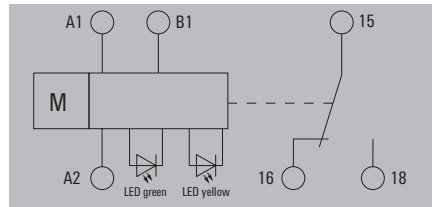
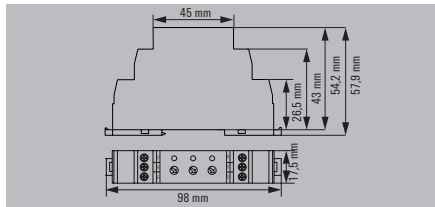
Infrastructure



Industry timing relay

- Multi-voltage input: 24 - 48 V DC, 24 - 240 V AC
- Space-saving construction
- 7 time functions with separate control input

ITS 24-240 V UC 1 CO M7C



Technical data

Input	
Rated control voltage	24..48 V DC - 15 % / + 10 % / 24..240 V AC - 15 % / + 10 %
Power rating	8 VA @ 230 V AC, 0.4 W at 24 V DC
Status indicator	LED green (U/t): flashes when time runs, lights permanently with supply voltage applied, LED yellow (R): relay closed
Repeat accuracy	< 0.5 % or ±5 ms
Basic accuracy	< 1.5 % (of scale-end value)
Setting tolerance	5 %
Min. pulse duration	50 ms
Time ranges	0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 0.5 min - 10 min, 3 min - 1 h, 0.5 h - 10 h
Max. reset time after voltage interruption	100 ms
Output	
Rated switching voltage	250 V AC
Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V
Continuous current	5 A
AC switching capacity (resistive), max.	1250 VA
DC switching capacity (resistive), max.	90 W
Max. switching frequency at rated load	0.1 Hz
Contact material	AgNi
Mechanical service life	1 x 10 ⁶ switching cycles
General data	
Ambient temperature (operational)	-25 °C...50 °C
Storage temperature	-40 °C...70 °C
Humidity	25 - 75%, no condensation
Version	with separate control input
Resistance to vibration EN 61812-1	10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g
Approvals	CE
Insulation coordination	
Rated voltage	300 V
Creepage and clearance distance input - output	≥ 1.5 mm
Dielectric strength input - output	1.6 kV
Impulse withstand voltage	2.5 kV
Protection degree	IP20
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.25 / 2.5
Depth x width x height	mm 57.9 / 17.5 / 98
Note	

Type	Qty.	Order No.
ITS 24-240VUC 1CO M7C	1	2496190000

Ordering data

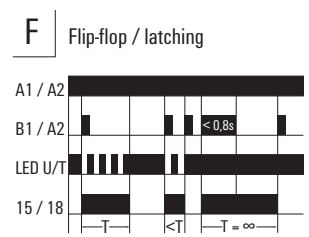
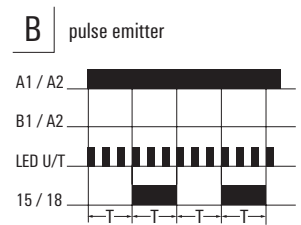
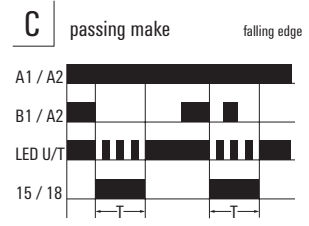
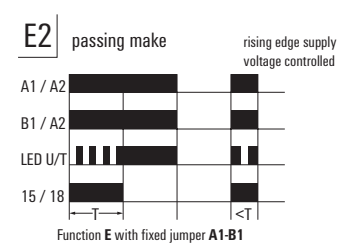
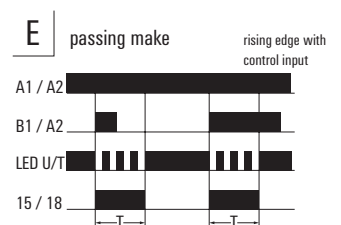
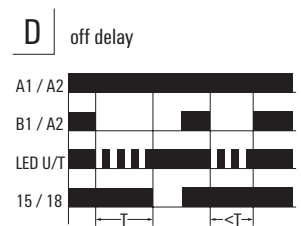
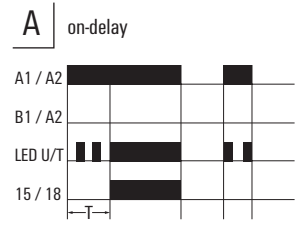
Screw connection

Note

Accessories

Note

Time functions





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



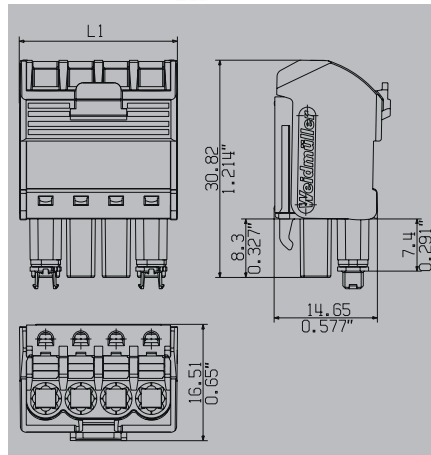
Machinery

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 mm²
 2.5 mm²
 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

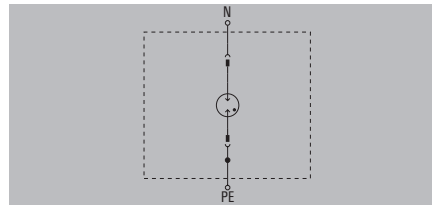
Technical data

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)	230 V
Max. continuous voltage, U _c (AC)	260 V
Max. continuous voltage, U _c (N-PE)	260 V
Discharge current I _n (8/20µs) wire-PE	40 kA
Discharge current I _n (8/20µs) N-PE	40 kA
Discharge current I _{max} (8/20µs) wire-PE	65 kA
Discharge current I _{max} (8/20µs) N-PE	65 kA
Combined pulse U _{dc}	10 kV
Requirements class, acc. to EN 61643-11	T2, T3
Short-circuit current rating I _{scCR}	100 kA
Leakage current at U _n	0 µA
Fuse	
Temporary surge voltage (over-voltage) - TOV	1200 V
Protection level U _p at I _n (L/N-PE)	≤ 1.6 kV
Protection level U _p at I _n (N-PE)	≤ 100 ns
Response time	≤ 100 ns
Optical function display	No
Design	Installation housing: 1TE, Insta IP 20
Colour	Black, arrester blue
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...80 °C
Connection according to IEC 947-7-1	
Solid	1.5...16 mm ²
Stranded	1.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE
Standards	IEC61643-11, EN61643-11

Dimensions / Signalling contact info

Clamping range (nominal / min. / max.)	mm ²	16 / 1.5
Height x width x depth	mm	94 / 17.8 / 69
Signalling contact		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
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

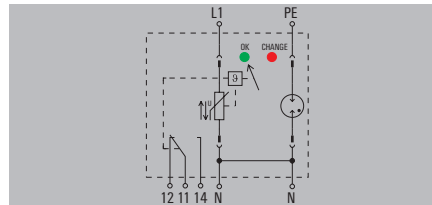
Infrastructure

Type II/III surge protection U_c : 280 V
Suitable for 230/400 V mains systems

- Pluggable arrester
- Coded voltage level
- High energy absorption with short time to sparkover
- Insert can be rotated through 180°
- No follow-on current
- Installation in distribution board
- Thermal protection function
- Co-ordination with VPU Type I

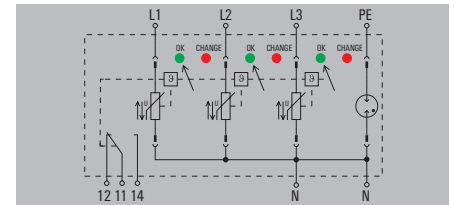
VPU II 1+1/R 280 40/65

1-phase



VPU II 3+1/R 280 40/65

TN-S, TT



Technical data

Rated voltage (AC)
 Max. continuous voltage, U_c (AC)
 Max. continuous voltage, U_c (N-PE)
 Discharge current I_n (8/20 μ s) wire-PE
 Discharge current I_n (8/20 μ s) N-PE
 Discharge current I_{nmax} (8/20 μ s) wire-PE
 Discharge current I_{nmax} (8/20 μ s) N-PE
 Combined pulse U_{oc}
 Requirements class, acc. to EN 61643-11
 Short-circuit current rating I_{scorr}
 Leakage current at U_n
 Fuse
 Temporary surge voltage (over-voltage) - TOV
 Protection level U_p at I_n (L/N-PE)
 Protection level U_p at I_n (N-PE)
 Response time
 Optical function display
 Design
 Colour
 Ambient temperature (operational)
 Storage temperature

Connection according to IEC 947-7-1

Solid
 Stranded
 Stripping length
 Tightening torque

Approvals

Approvals
 Standards

Dimensions / Signalling contact info

Clamping range (nominal / min. / max.) mm²
 Height x width x depth mm
 Signalling contact

Note

Ordering data

without remote signalling contact
 with remote signalling contact (R)

Note

Accessories

Note

230 V
 280 V
 260 V
 20 kA
 40 kA
 40 kA
 65 kA
 10 kV
 T2, T3
 25 kA
 100 μ A
 125 A gL (if back-up fuse > 125 A)
 438 V
 ≤ 1.55 kV
 ≤ 1.6 kV
 ≤ 25 ns, ≤ 100 ns
 green = OK; red = arrester is defective - replace
 Installation housing; 2TE, Insta IP 20
 Black, Arrester orange / blue
 -40 °C...70 °C
 -40 °C...80 °C

1.5...16 mm²
 1.5...50 mm²
 15 mm
 2...3 Nm

CE
 IEC61643-11, EN61643-11

no remote sig. contact with remote signalling (R)

16 / 1.5 16 / 1.5
 94 / 35.6 / 69 106 / 35.6 / 69
 No 250 V 1A 1CO

Type	Qty.	Order No.
VPU II 1+1 280 40/65	1	2520900000
VPU II 1+1 R 280 40/65	1	2520910000

Pluggable spare arrester L-N VPU II 0 280 V/40 kA - 1352570000,
 N-PE VPU II 0 N-PE 260 40/65 - 2520890000

230 V
 280 V
 260 V
 20 kA
 40 kA
 40 kA
 65 kA
 10 kV
 T2, T3
 25 kA
 100 μ A
 125 A gL (if back-up fuse > 125 A)
 438 V
 ≤ 1.55 kV
 ≤ 1.6 kV
 ≤ 25 ns, ≤ 100 ns
 green = OK; red = arrester is defective - replace
 Installation housing; 4TE, Insta IP 20
 Black, Arrester orange / blue
 -40 °C...70 °C
 -40 °C...80 °C

1.5...16 mm²
 1.5...50 mm²
 15 mm
 2...3 Nm

CE
 IEC61643-11, EN61643-11

no remote sig. contact with remote signalling (R)

16 / 1.5 16 / 1.5
 94 / 71.2 / 69 106 / 71.2 / 69
 No 250 V 1A 1CO

Type	Qty.	Order No.
VPU II 3+1 280 40/65	1	2520920000
VPU II 3+1 R 280 40/65	1	2520930000

Pluggable spare arrester L-N VPU II 0 280 V/40 kA - 1352570000,
 N-PE VPU II 0 N-PE 260 40/65 - 2520890000

Graphically programmable logic units

- For simple instrumentation and control tasks
- Digital and analogue inputs
- Digital outputs + PWM output
- Suitable for high temperature and vibration requirements

Logit unit WCU 501



Logit unit WCU 650



Technical data

General data	
Type of connection / Wire connection method	Plug-in spring-type terminals (0.25 - 1.5 mm ²) / PUSH IN
Operating voltage	+VDD: 7...32 V DC
Input fuse	max. 8 A (external)
Optical function display	LED
Interface	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 _{in})	0...30 V DC
Precision	± 3 % (0.5 V DC)
Digital inputs	
Number	2
Pin assignment	IN 1, IN 2
Input frequency (f _{in})	≤ 1 kHz
Input voltage (U _{in})	0...30 V DC
Digital outputs	
Number	4
Pin assignment	OUT 1, OUT 2, OUT 3, OUT 4
Total output current (I _{TOT}) / Output current per channel (I _{OUT})	≤ 4 A / < 1.5 A
Switching frequency (f _{OUT})	0...100 Hz
PWM output	
Number of	1
Pin assignment	OUT 5
Output current per channel (I _{OUT})	≤ 1 A
Note	Can also be used as a digital output (ground-switching)
Switching frequency (f _{OUT})	1...10 kHz
Type	Ground switching
Temperatures	
Ambient temperature (operational) / Storage temperature	-40 °C...70 °C / -40 °C...70 °C
EMC / shock / vibration	
EMC interference resistance	EN 61000-6-2:2005
Shock resistance	min. 100 m/s ² (10 g)
Vibration resistance	min. 50 m/s ² (5 g) @ 9...200 Hz
CAN interface	
Bus system	
Baud rate	
Identifier	

General data		
Type of connection / Wire connection method	Plug-in spring-type terminals (0.25 - 1.5 mm ²) / PUSH IN	
Operating voltage	+VDD: 7...32 V DC	
Input fuse	max. 8 A (external)	
Optical function display	LED	
Interface	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 _{in})	0...30 V DC	
Precision	± 2% (0.25 V DC)	
Digital inputs		
Number	4	
Pin assignment	IN 7, IN 8, IN 9, IN 10	
Input frequency (f _{in})	≤ 1 kHz	
Input voltage (U _{in})	0...30 V DC	
Digital outputs		
Number	8	
Pin assignment	OUT 1, OUT 2, OUT 3, OUT 4, OUT 5, OUT 6, OUT 7, OUT 8	
Total output current (I _{TOT}) / Output current per channel (I _{OUT})	≤ 6 A / ≤ 1.5 A	
Switching frequency (f _{OUT})	0...100 Hz	
PWM output		
Number of	1	
Pin assignment	OUT 9	
Output current per channel (I _{OUT})	≤ 1 A	
Note	Can also be used as a digital output (ground-switching)	
Switching frequency (f _{OUT})	1...10 kHz	
Type	Ground switching	
Temperatures		
Ambient temperature (operational) / Storage temperature	-40 °C...70 °C / -40 °C...70 °C	
EMC / shock / vibration		
EMC interference resistance	EN 61000-6-2:2005	
Shock resistance	min. 100 m/s ² (10 g)	
Vibration resistance	min. 50 m/s ² (5 g) @ 10...150 Hz	
CAN interface		
Bus system	ISO 11898-2, CAN 2.0B, CAN 2.0A	
Baud rate	100 kbit, 125 kbit, 250 kbit, 500 kbit	
Identifier	11bit / 29 bit	

Dimensions		
Depth x width x height	31 / 44 / 40	
Note		
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 ² / 6 mm ²	4 mm ² / 6 mm ²
Cable exterior diameter	5.5 ...7.0 mm	5.5 ...7.0 mm
Cable as per standard	2PG1169/08.07 & EN 50618:2014	2PG1169/08.07 & EN 50618:2014
Thread	M16	M12
Pollution degree	II	II
Approvals	TÜV (DIN EN 50521)	TÜV (DIN EN 50521)


Ordering data
WM4 C field connector

	Type	Qty.	Order No.
	BUGH WM4 C BT Female housing	100 (in bag)	1530690000


	Type	Qty.	Order No.
	SFGH WM4 C BT Male housing	100 (in bag)	1530700000


BOX WM4 C housing connector

	Type	Qty.	Order No.
	BUGH BOX WM4 C BT Female housing	100 (in bag)	1530630000




	Type	Qty.	Order No.
	SFGH BOX WM4 C BT Male housing	100 (in bag)	1530640000




Crimp contacts

	Type	Qty.	Order No.
	BUKO WM4 C BT Female contact	100 (in bag)	1530670000
	BUKO WM4 C RL Female contact	1,500 (on roll)	1530770000

	Type	Qty.	Order No.
	SFKO WM4 C BT Male contact	100 (in bag)	1530680000
	SFKO WM4 C RL Male contact	1,500 (on roll)	1530780000

Accessories and related products

	Type	Qty.	Order No.
	VSSO WM4 C Universal dust cap for male and female housings	100	1254870000
	PVC-TV1-BK-4-1000 4 mm ²	1 km	1203780000
	PVC-TV1-BK-6-1000 6 mm ²	1 km	1524740000
	multi-stripax® PV Wire stripping pliers for PV wires from 2.5 mm ² to 6 mm ²	1	1190490000
	KT 8 Cutting tool	1	9002650000

	Type	Qty.	Order No.
	CTF PV WM4 C Crimping tool	1	1222870000
	SCREWTY SW15 optional mounting tool for WM4 C	1	1290830000
	SCREWTY SW18 optional mounting tool for BOX WM4 C	1	1254670000
	DMS MANUELL 0,5-1,7 Nm	1	9918370000
	DMS MANUELL 2,0-8,0 Nm	1	9918380000

Cable harnessing

Individual types and cable length on request

Transclinic xi+

Transclinic 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

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Manufacturers

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Infrastructure



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Manufacturers



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Process



Machinery

Technical data

FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

FAD 1771-WA/WC/WB/WD



Technical data

Rated data	
Operating voltage, max.	< 300 V AC
Max. current per channel	2 A
Total operating current	6 A
General data	
Ambient temperature (operational)	-25...50 °C
Storage temperature	-40...60 °C
Approvals	CE
Insulation coordination (EN 50178)	
Rated insulation voltage	< 300 V AC
Surge voltage category	II
Pollution severity level	2
Insulation test voltage	1.2 kVAC

< 300 V AC
2 A
6 A
-25...50 °C
-40...60 °C
CE
< 300 V AC
II
2
1.2 kVAC

Dimensions	
Length / Width	269 mm / 32 mm

269 mm / 32 mm

Note	

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Ordering data

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

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

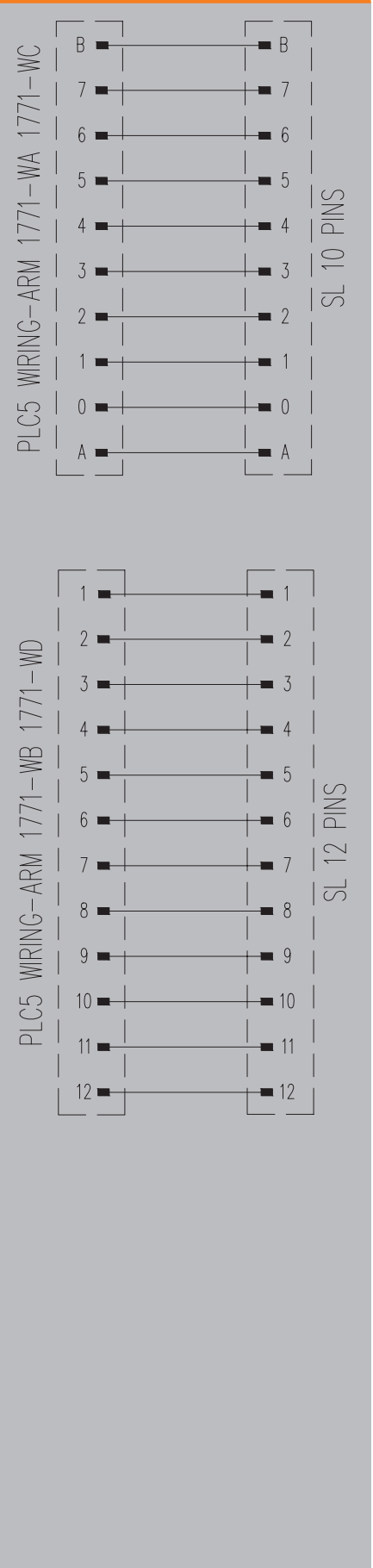
Note	

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Accessories

Note	

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FAD – front adapters for migrations from Rockwell PLC5

The FAD PLC5 front adapters with pre-assembled cables provide safe migration from the old PLC 5 to other PLC systems or to the u-remote system from Weidmüller.

- Clip-in foot for TS35

FAD 1771-WF/WG/WH



Technical data

Rated data	
Operating voltage, max.	< 250 V AC
Max. current per channel	2 A
Total operating current	8 A
General data	
Ambient temperature (operational)	-25...50 °C
Storage temperature	-40...60 °C
Approvals	CE
Insulation coordination (EN 50178)	
Rated insulation voltage	< 250 V AC
Surge voltage category	II
Pollution severity level	2
Insulation test voltage	1.2 kVAC

< 250 V AC
2 A
8 A
-25...50 °C
-40...60 °C
CE
< 250 V AC
II
2
1.2 kVAC

Dimensions	
Length / Width	269 mm / 32 mm

269 mm / 32 mm

Note	

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Ordering data			
FAD for wiring-arm WH-WG	Type	Qty.	Order No.
FAD for wiring-arm WF	FAD 1771-WH/WG BL21 M	1	2448660000
	FAD 1771-WF BL18 M	1	2448690000

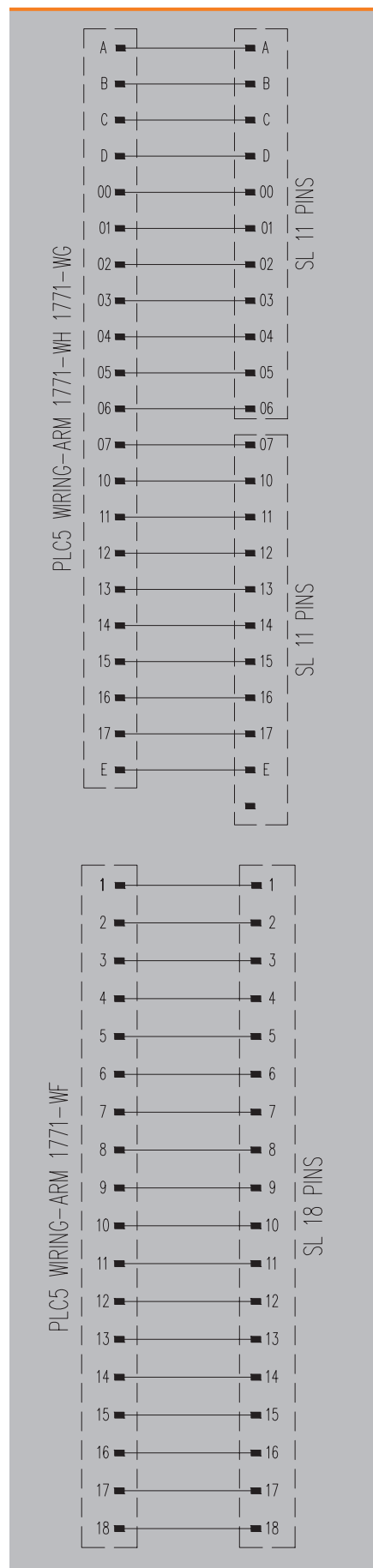
Type	Qty.	Order No.
FAD 1771-WH/WG BL21 M	1	2448660000
FAD 1771-WF BL18 M	1	2448690000

Note	

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Accessories	
Note	

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Technical data

Machinery

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Device Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



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Energy



Process



Machinery

Technical data

Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 12-, 22-point cards

IPC620 carrier



Technical data

Rated data	
Operating voltage	150 V
Max. current per channel	5 A
General data	
Ambient temperature (operational)	0...50 °C
Storage temperature	0...50 °C
Approvals	

	150 V
	5 A
	0...50 °C
	0...50 °C

Dimensions	
Length / Width / Height	266 mm / 29 mm / 61 mm

	266 mm / 29 mm / 61 mm
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Note	

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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	6720000787
22-point IPC-620 card adapter	1	6720000788

Note	

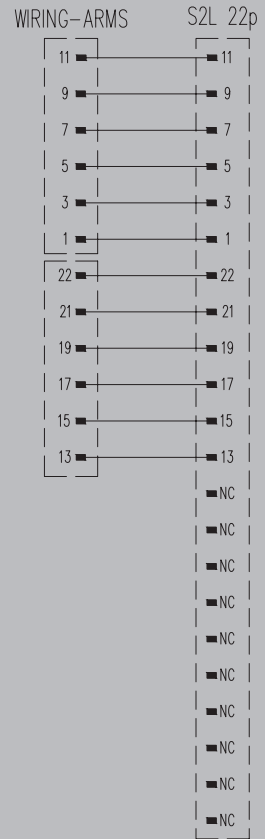
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Accessories

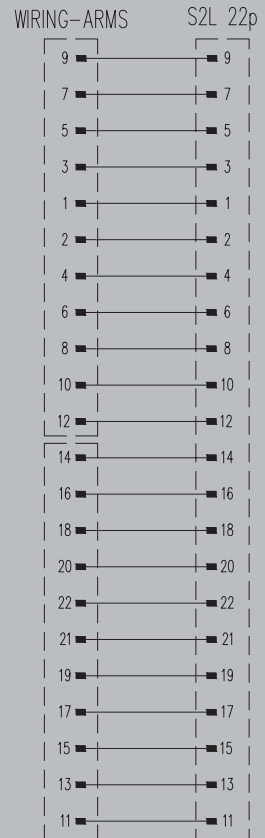
Note	

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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
Max. current per channel
General data
Ambient temperature (operational)
Storage temperature
Approvals

125 V
3 A
0...50 °C
0...50 °C

Dimensions
Length / Width / Height

266 mm / 29 mm / 126 mm

Note

Ordering data

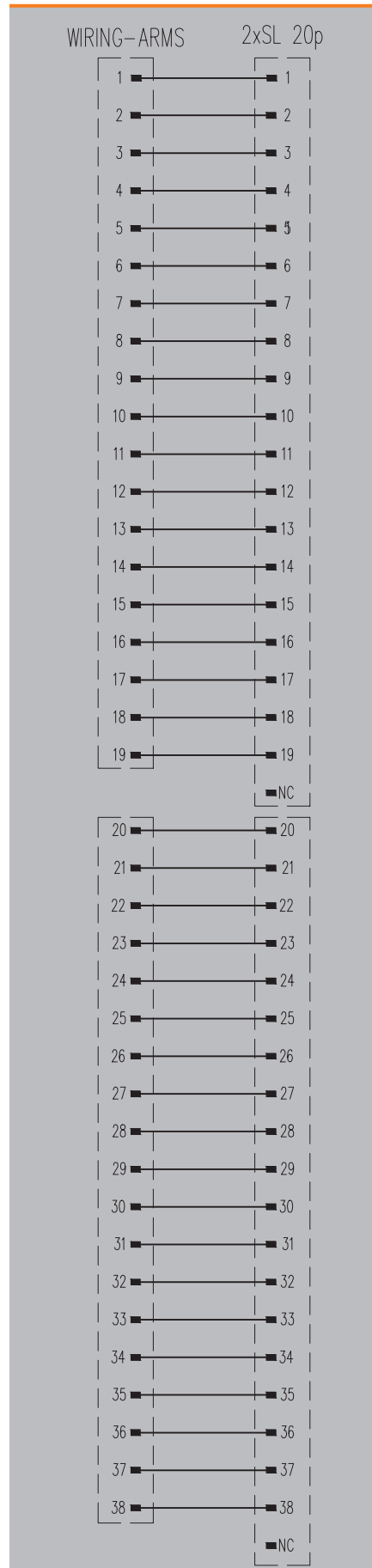
38-points (Reference Honeywell TB 621-9977 or -9976)
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Type	Qty.	Order No.
38-point IPC-620 card adapter	1	6720001225

Note

Accessories

Note



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Front panel adaptors for migrations from Honeywell IPC620

Feed through connections

- IPC-620 conversion to pluggable connector(s)
- 24-point cards

IPC620 carrier



Technical data

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

Operating voltage	50 V
Max. current per channel	3 A
Ambient temperature (operational)	0...50 °C
Storage temperature	0...50 °C
Approvals	

Dimensions	
Length / Width / Height	266 mm / 29 mm / 50 mm

Length / Width / Height	266 mm / 29 mm / 50 mm
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Note

Note

Ordering data

24-points (Reference Honeywell TB 621-9954)

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

Note

Note

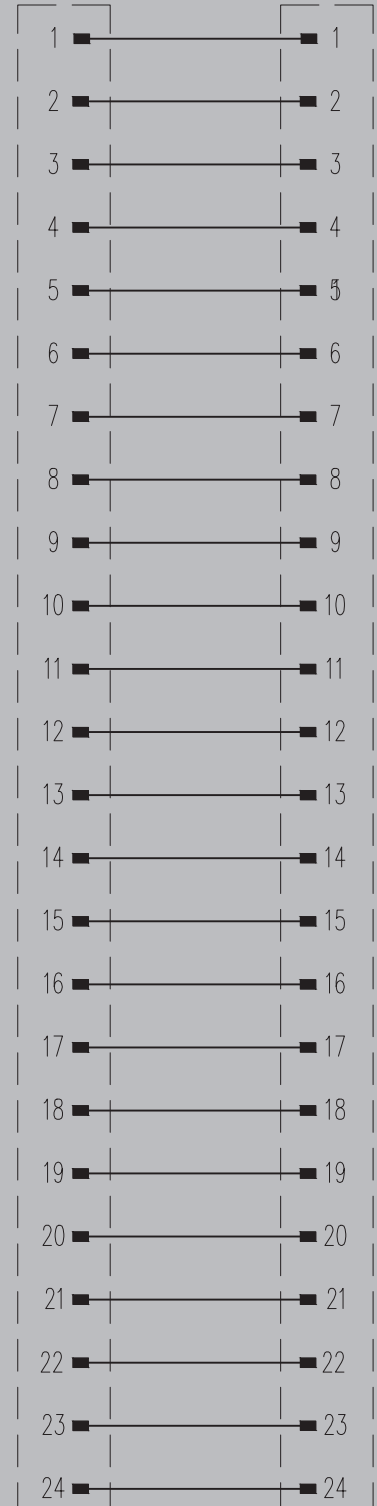
Accessories

Note

Note

WIRING-ARM

S2L 24p





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Backplane with SIL 3 relays for Yokogawa Pro-safe SDV541

- 2 AKB connectors (50 poles) for redundancy
- Green LED shows relays switching status
- Monotorization of the Power supply status with green LED and alarm contact (24 V DC / 2...100 mA): close contact and led shinning means no supply fault.
- 2 versions with De-energized to Safe SIL relays with and without monitoring
- Screw connection

BKP-16DO-SDV541



Technical data

Connected to	Connection to the card
Connection data and functionality	Connection on control side
	Relay type
	Power supply fuse
Input (safety circuit)	
	Rated control voltage
	Power consumption
	Guaranteed current consumption of 24 VDC -10%
	Status indicator
Output (safety circuit)	
	Base material of the contact / Contact design
	max. permitted switching voltage
	max. permitted switching current
	max. switching current, internal fuse
	max. switching current, external fuse
	Switching capacity min./max.
	Internal fuse
	Short-circuit-proof
	Switch-on time / Switch-off time
General data	
	Ambient temperature (operational)
	Storage temperature
Insulation coordination (EN 50178)	
	Rated input insulation voltage
	Rated output insulation voltage
	Overvoltage category input/output
	Overvoltage category input/input
	Overvoltage category output/output
	Pollution severity level
	Pulse voltage test (1,2/50µs)
	Insulation test voltage
	Clearance input/output
Dimensions	
	Clamping range, min./max. (field)
	Clamping range, min./max. (supply)
	Mounting rail
	Length x width
Note	

	SDV541
	2 x AKB (50P)
	SIL3
	2 A
	24 V DC ± 20%
	42 mA
	35 mA
	LED yellow
	AgNi 0.15 gold flashed / NO contact
	250 V AC / 30 V DC
	8 A
	5 A (refer to derating curve)
	5 A (refer to derating curve)
	12 V / 10 mA / 2000 VA
	5 A time-lag
	No
	typ. 7 ms / typ. 14 ms
	-25...50 °C
	-40...85 °C
	50 V AC / 70 V DC
	< 300 V AC
	III
	III
	III
	2
	6 kV
	1.2 kVAC
	≥ 5.5 mm
Screw connection	
	0.13 mm ² / 2.5 mm ²
	0.13 mm ² / 6 mm ²
	TS 35
	376 mm / 168 mm
	For more technical data about SIL relays 1303890000 and 1303760000 check catalog.weidmueller.com

Ordering data

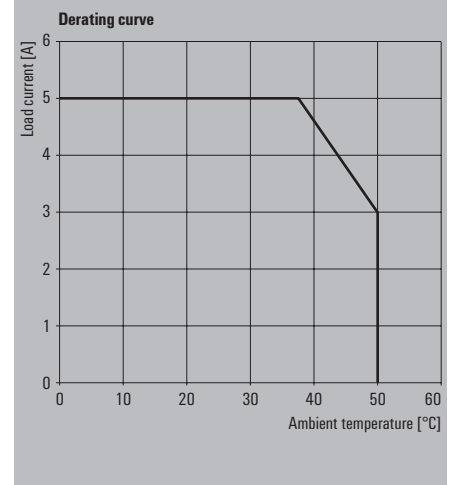
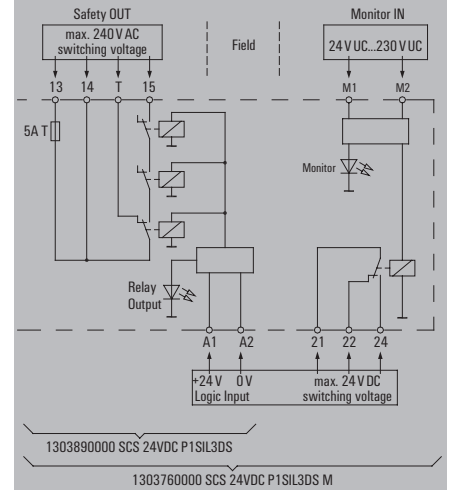
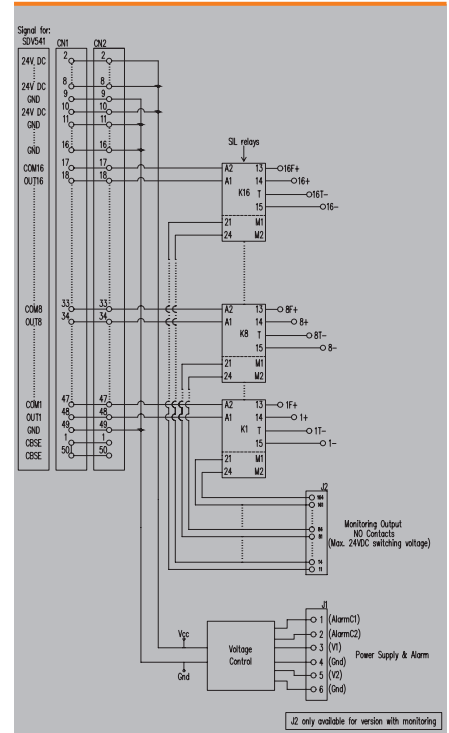
	De-energized to Safe without monitoring
	De-energized to Safe with monitoring
Note	

Type	Height	Order No.
BKP-16DO-SDV541-V0-S	125 mm	2461730000
BKP-16DO-SDV541-V1-S	125 mm	2436230000

Accessories

	Supply fuse
	SIL relay without monitoring
	SIL relay with monitoring
	Relay (for alarm)
Note	

Type	Qty.	Order No.
G 20/2.00A/F	10	0430900000
SCS 24VDC P1SIL3DS	1	1303890000
SCS 24VDC P1SIL3DS M	1	1303760000
RSS112024	20	4061590000





Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

Size 3

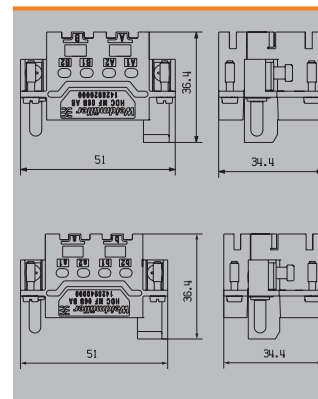
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 6B AB	1428920000
	HDC MF 6B BA	1428940000

Note 2 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Size 4

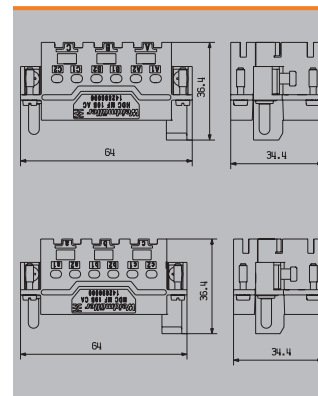
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 10B AC	1428960000
	HDC MF 10B CA	1428980000

Note 3 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



Transport lock for ModuPlug® metal frame		
HDC MF FIXING		1480290000

Size 6

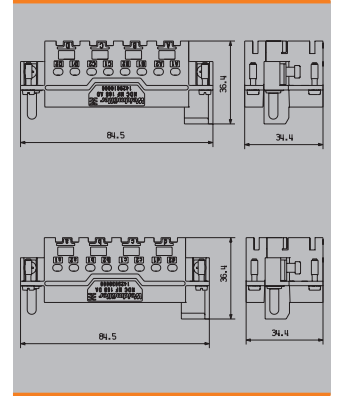
ModuPlug® metal frame

Frame



Deployment	Type	Order No.
	HDC MF 16B AD	1429010000
	HDC MF 16B DA	1429030000

Note 4 module slots; double-sided PE screw connection: 0.5 - 10 mm² (AWG 20 ... 8); prepared conductor in accordance with IEC 60999-1



Transport lock



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

Size 8

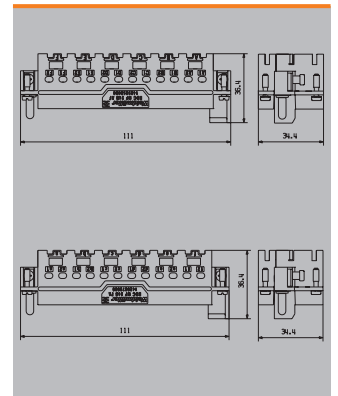
ModuPlug® metal frame

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 mm² (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



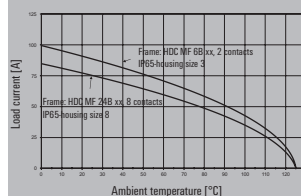
ModuPlug® HDC MHP 100

Technical data

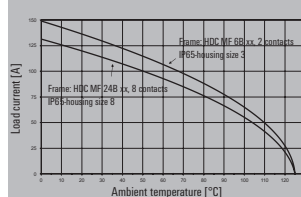
Contact inserts	
No. of poles	2
Rated current (DIN EN 61984)	100 A
Rated voltage (DIN EN 61984)	1000 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1.5

Note

HDC-MHP100-modules in the IP65-housing,
Conductor H07V-K10:



HDC-MHP100-modules in the IP65-housing,
Conductor H07V-K35:

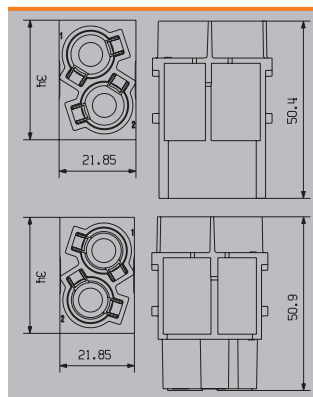


Crimp connection



Deployment	Type	Order No.
Male	HDC MHP 100 MC	1429060000
Female	HDC MHP 100 FC	1429080000

Note



Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
10	HDC MHP100 M 10	1435750000	HDC MHP100 F 10	1435790000	1435790000
10	HDC MHP100 M 16	1435760000	HDC MHP100 F 16	1435810000	1435810000
10	HDC MHP100 M 25	1435770000	HDC MHP100 F 25	1435820000	1435820000
10	HDC MHP100 M 35	1435780000	HDC MHP100 F 35	1435830000	1435830000

Tools



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

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

ModuPlug®
HDC MHX 4P

Technical data

Contact inserts	
No. of poles	4
Rated current (DIN EN 61984)	40 A
Rated voltage (DIN EN 61984)	830 V
Rated impulse voltage (DIN EN 61984)	8 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

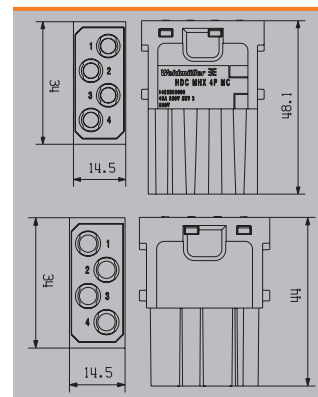
Note

Crimp connection



Deployment	Type	Order No.
Male	HDC MHX 4P MC	1428950000
Female	HDC MHX 4P FC	1428970000

Note



Accessories

Crimp contacts

Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
25	HDC C HX SM1.5AG	1002910000	HDC C HX BM1.5AG	1002950000	1002950000
25	HDC C HX SM2.5AG	1002920000	HDC C HX BM2.5AG	1002960000	1002960000
25	HDC C HX SM4.0AG	1002930000	HDC C HX BM4.0AG	1002970000	1002970000
25	HDC C HX SM6.0AG	1002940000	HDC C HX BM6.0AG	1002980000	1002980000

Tools



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

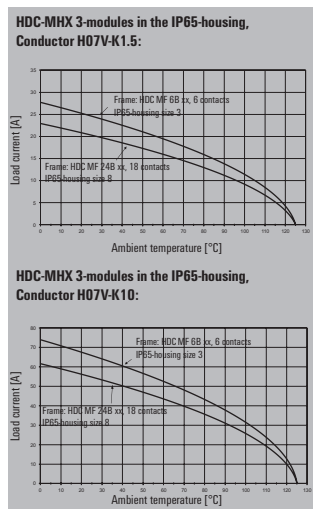


ModuPlug®
HDC MXX 3

Technical data

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

Note

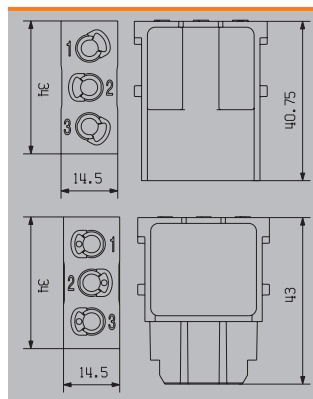


Crimp connection



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

Tools



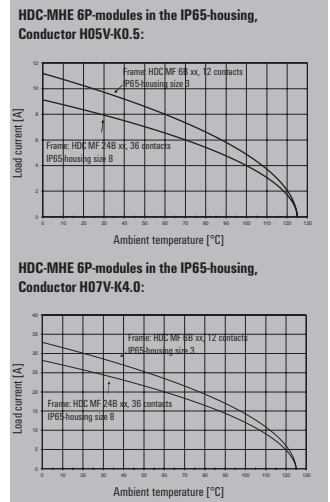
Crimping tool	
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HX	1002990000
Note	

ModuPlug®
HDC MHE 6P

Technical data

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

Note

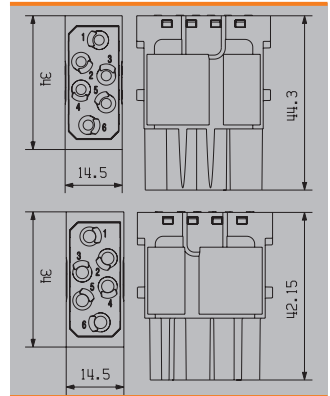


Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 6P MC	1505650000
Female	HDC MHE 6P FC	1505660000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	1651470000
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	1651480000
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	1651490000
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	1651500000
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	1651510000
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	1116530000
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	1201100000
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	1201200000
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	1201300000
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	1201400000
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	1201500000

Conductor cross-section	Insulation stripping length
0.50 mm ²	AWG 20 7.5 mm
0.75 - 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Tools



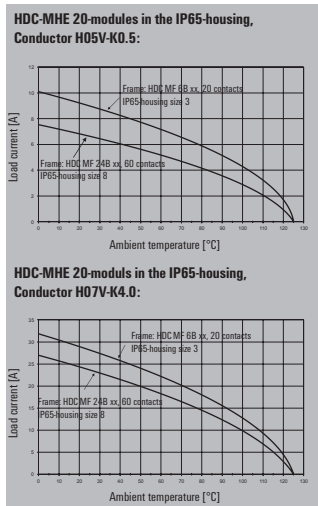
Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

ModuPlug®
HDC MHE 20

Technical data

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

Note

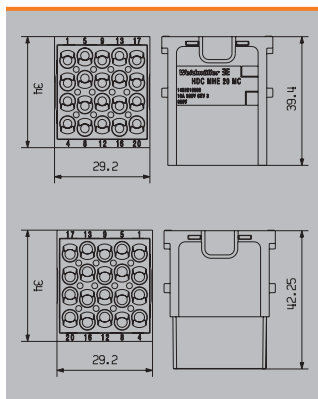


Crimp connection



Deployment	Type	Order No.
Male	HDC MHE 20 MC	1428910000
Female	HDC MHE 20 FC	1428930000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HE-SM0.5AU	1651420000	HDC-C-HE-BM0.5AU	1651470000	
100	HDC-C-HE-SM0.75-1.00AU	1651430000	HDC-C-HE-BM0.75-1.00AU	1651480000	
100	HDC-C-HE-SM1.5AU	1651440000	HDC-C-HE-BM1.5AU	1651490000	
100	HDC-C-HE-SM2.5AU	1651450000	HDC-C-HE-BM2.5AU	1651500000	
100	HDC-C-HE-SM4.0AU	1651460000	HDC-C-HE-BM4.0AU	1651510000	
100	HDC-C-HE-SM4.65AU	1116540000	HDC-C-HE-BM4.65AU	1116530000	
100	HDC-C-HE-SM0.5AG	1200500000	HDC-C-HE-BM0.5AG	1201100000	
100	HDC-C-HE-SM0.75-1.00AG	1200600000	HDC-C-HE-BM0.75-1.00AG	1201200000	
100	HDC-C-HE-SM1.5AG	1200700000	HDC-C-HE-BM1.5AG	1201300000	
100	HDC-C-HE-SM2.5AG	1200800000	HDC-C-HE-BM2.5AG	1201400000	
100	HDC-C-HE-SM4.0AG	1200900000	HDC-C-HE-BM4.0AG	1201500000	

Conductor cross-section	Insulation stripping length
0.50 mm ²	AWG 20 7.5 mm
0.75 - 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Tools



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

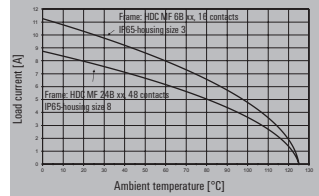
ModuPlug®
HDC MHE 8

Technical data

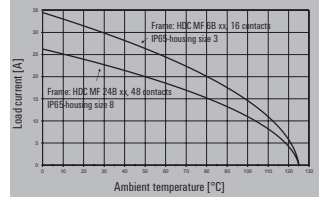
Contact inserts	
No. of poles	8
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	400 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94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

Note

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



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

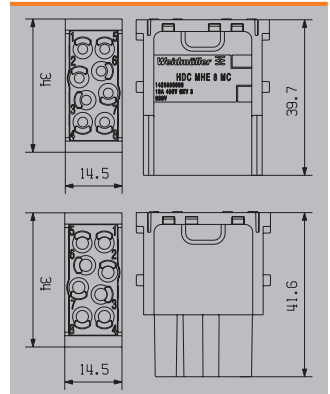


Crimp connection



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 ²	AWG 20 7.5 mm
0.75 - 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Tools



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

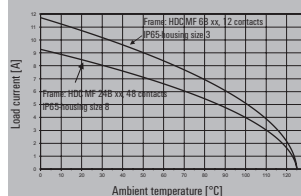
ModuPlug® HDC MHE 6

Technical data

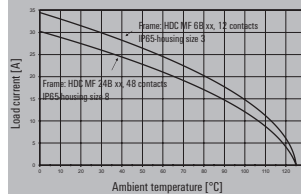
Contact inserts	
No. of poles	6
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	500 V
Rated impulse voltage (DIN EN 61984)	6 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94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

Note

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



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

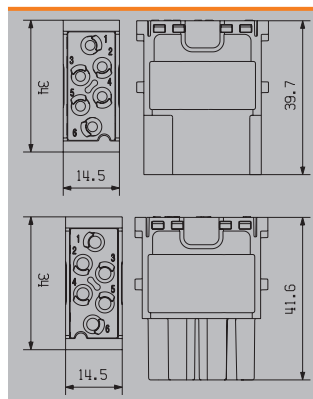


Crimp connection



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

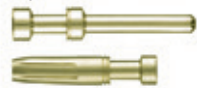
Note



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 ²	AWG 20 7.5 mm
0.75 - 1.00 mm ²	AWG 18 7.5 mm
1.50 mm ²	AWG 16 7.5 mm
2.50 mm ²	AWG 14 7.5 mm
4.00 mm ²	AWG 12 7.5 mm

Tools



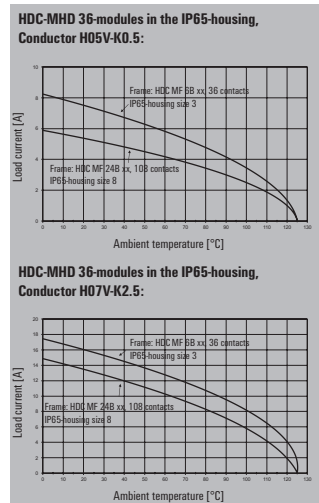
Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
Removal Tool HE	1866750000
Note	

ModuPlug® HDC MHD 36

Technical data

Contact inserts	
No. of poles	36
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	2

Note



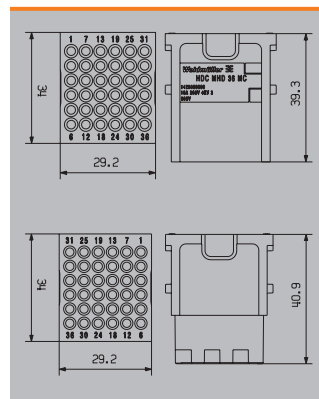
Modules

Crimp connection



Deployment	Type	Order No.
Male	HDC MHD 36 MC	1428860000
Female	HDC MHD 36 FC	1428870000

Note



Accessories

Crimp contacts

Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000	
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000	
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000	
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000	
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000	
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000	
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000	
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000	

Conductor cross-section	Insulation stripping length
0.14 - 0.37 mm ²	AWG 26-22 8 mm
0.50 mm ²	AWG 20 8 mm
0.75 - 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 6 mm

Tools



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
REMOVAL TOOL HD	1866730000
Note	



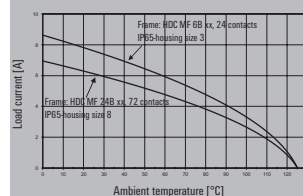
ModuPlug® HDC MHD 12

Technical data

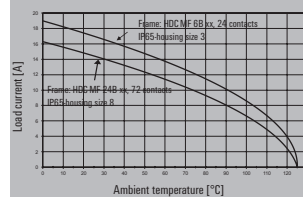
Contact inserts	
No. of poles	12
Rated current (DIN EN 61984)	10 A
Rated voltage (DIN EN 61984)	250 V
Rated impulse voltage (DIN EN 61984)	4 kV
Pollution severity	3
Rated voltage according to UL/CSA	600 V
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	1

Note

HDC-MHD 12-modules in the IP65-housing,
Conductor H05V-K0.5:



HDC-MHD 12-modules in the IP65-housing,
Conductor H07V-K2.5:

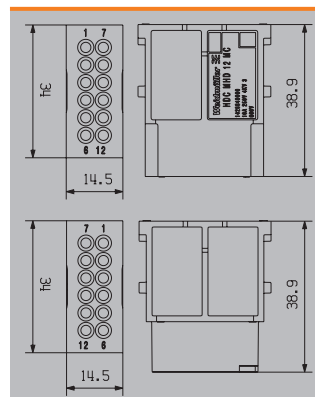


Crimp connection



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

Note



Accessories

Crimp contacts

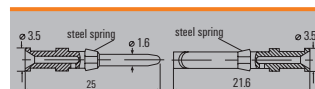
Surface finish gold



Surface finish silver



Male			Female		
Qty.	Type	Order No.	Type	Order No.	Order No.
100	HDC-C-HD-SM0.14-0.37AU	1651620000	HDC-C-HD-BM0.14-0.37AU	1651670000	1651670000
100	HDC-C-HD-SM0.5AU	1651630000	HDC-C-HD-BM0.5AU	1651680000	1651680000
100	HDC-C-HD-SM0.75-1.00AU	1651640000	HDC-C-HD-BM0.75-1.00AU	1651690000	1651690000
100	HDC-C-HD-SM1.5AU	1651650000	HDC-C-HD-BM1.5AU	1651700000	1651700000
100	HDC-C-HD-SM2.5AU	1651660000	HDC-C-HD-BM2.5AU	1651710000	1651710000
100	HDC-C-HD-SM0.14-0.37AG	1651520000	HDC-C-HD-BM0.14-0.37AG	1651570000	1651570000
100	HDC-C-HD-SM0.5AG	1651530000	HDC-C-HD-BM0.5AG	1651580000	1651580000
100	HDC-C-HD-SM0.75-1.00AG	1601750000	HDC-C-HD-BM0.75-1.00AG	1601760000	1601760000
100	HDC-C-HD-SM1.5AG	1651550000	HDC-C-HD-BM1.5AG	1651600000	1651600000
100	HDC-C-HD-SM2.5AG	1651560000	HDC-C-HD-BM2.5AG	1651610000	1651610000



Conductor cross-section	Insulation stripping length
0.14 – 0.37 mm ²	AWG 26-22 8 mm
0.50 mm ²	AWG 20 8 mm
0.75 – 1.00 mm ²	AWG 18 8 mm
1.50 mm ²	AWG 16 8 mm
2.50 mm ²	AWG 14 6 mm

Tools



Crimping tool	
CTX CM 1.6/2.5	9018490000
CTIN CM 1.6/2.5	9205430000
Contact Removal Tool	
REMOVAL TOOL HD	1866730000

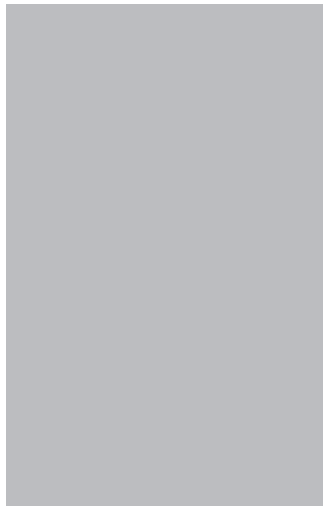
Note

ModuPlug®
HDC MBUS 2

Technical data

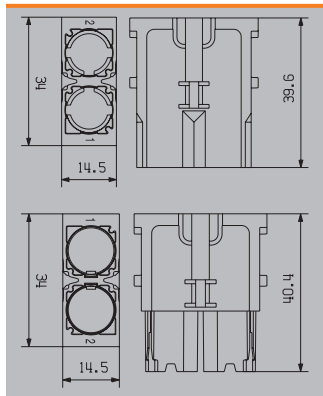
Contact inserts	
No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 ¹² Ω
Surge voltage category	III
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating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

Note



Deployment	Type	Order No.
Male	HDC MBUS 2 MC	1428990000
Female	HDC MBUS 2 FC	1429020000

Note



Fixing clip



Fixing clip	
HDC MBUS 2 MCLIP	1989290000
HDC MBUS 2 PCLIP	1989300000

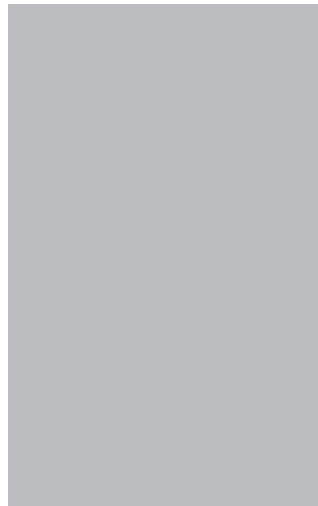
Note MCLIP = metal version; PCLIP = plastic version

**ModuPlug®
HDC MDU**

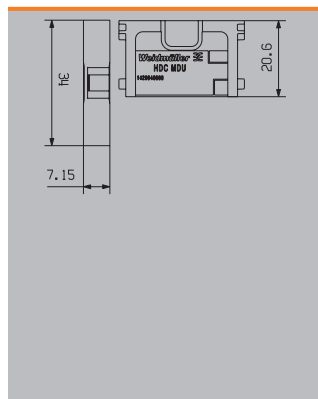
Technical data

Contact inserts	
No. of poles	
Rated current (DIN EN 61984)	
Rated voltage (DIN EN 61984)	
Rated impulse voltage (DIN EN 61984)	
Pollution severity	3
Rated voltage according to UL/CSA	
Insulation resistance	10 ¹² Ω
Surge voltage category	
Limit temperature	-40 °C ... 125 °C
UL 94 flammability rating	V-0
Plugging cycles	≥ 500
Material	Polycarbonate, glass fibre reinforced
Required plug-in slots	0.5

Note



Deployment	Type	Order No.
	HDC MDU	1429040000



Note

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Cat. 5e

Technical data

No. of poles	4
Transmission rate	100 Mbit/s
Category	Cat. 5e
Coding	D
Rated current	4 A
Rated voltage	250 V
Pollution severity	2
Insulation resistance	≥ 10 ⁹ Ω
Limit temperature	-30 °C ... 90 °C
Plugging cycles	≥ 100
Contact surface	Au (Gold)

Note
Round plug-in connector in accordance with IEC 61076-2-101



Module side version	Cable length	Opposite side version	Type	Order No.
Female	1 m	open	HDC XX5E01 FOXXXXX-0100	2003920100
Male	1 m	open	HDC XX5E01 MOXXXXX-0100	2003890100
Male	0.5 m	Female, straight	HDC XX5E01 MFSXXX-0050	2453550050
Male	1 m	Female, straight	HDC XX5E01 MFSXXX-0100	2453550100
Male	1.5 m	Female, straight	HDC XX5E01 MFSXXX-0150	2453550150
Male	3 m	Female, straight	HDC XX5E01 MFSXXX-0300	2453550300
Male	5 m	Female, straight	HDC XX5E01 MFSXXX-0500	2453550500
Female	1 m	Male, straight, M12D	HDC XX5E01 FMSM12D-0100	2451120100
Male	1 m	Male, straight, M12D	HDC XX5E01 MMSM12D-0100	2451110100
Male	1 m	Male, straight, RJ45	HDC XX5E01 MMSRJ45-0100	2450490100
Female	1 m	Male, straight, RJ45	HDC XX5E01 FMSRJ45-0100	2451080100

Note Other versions and cable lengths on request

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Cat. 6_A

Technical data

No. of poles	8
Transmission rate	10 GBit/s
Category	Cat. 6A
Coding	X
Rated current	0.5 A
Rated voltage	50 V
Pollution severity	2
Insulation resistance	≥ 10 ⁹ Ω
Limit temperature	-30 °C ... 90 °C
Plugging cycles	≥ 100
Contact surface	Au (Gold)

Note

Round plug-in connector in accordance with IEC 61076-2-109



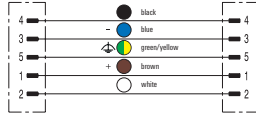
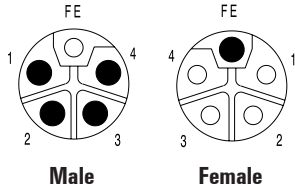
Module side version	Cable length	Opposite side version	Type	Order No.
Female	1 m	open	HDC XX6A01 FOXXXXX-0100	2003850100
Male	1 m	open	HDC XX6A01 MOXXXXX-0100	2003820100
Male	0.5 m	Female, straight	HDC XX6A01 MFSXXXX-0050	2453540050
Male	1 m	Female, straight	HDC XX6A01 MFSXXXX-0100	2453540100
Male	1.5 m	Female, straight	HDC XX6A01 MFSXXXX-0150	2453540150
Male	3 m	Female, straight	HDC XX6A01 MFSXXXX-0300	2453540300
Male	5 m	Female, straight	HDC XX6A01 MFSXXXX-0500	2453540500
Male	1 m	Male, straight, M12X	HDC XX6A01 MMSM12X-0100	2451130100
Female	1 m	Male, straight, M12X	HDC XX6A01 FMSM12X-0100	2451140100
Male	1 m	Male, straight, RJ45	HDC XX6A01 MMSRJ45-0100	2451090100
Female	1 m	Male, straight, RJ45	HDC XX6A01 FMSRJ45-0100	2451100100

Note

Other versions and cable lengths on request



Connecting cables
M12
L-coded



Ordering data

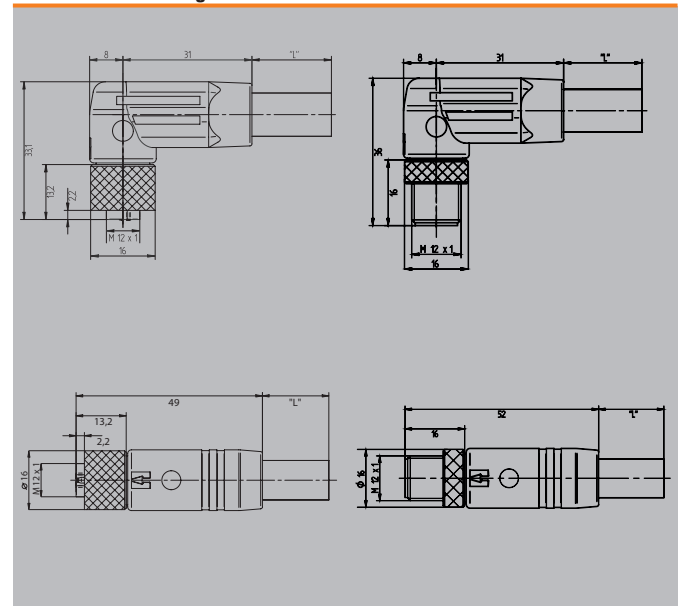
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-L-1.5P	2455260150		
SAIL-M12GM12G-L-3.0P	2455260300		
SAIL-M12GM12G-L-5.0P	2455260500		
SAIL-M12GM12G-L-10P	2455261000		
Male, straight - Female, angled			
SAIL-M12GM12W-L-1.5P	2455280150		
SAIL-M12GM12W-L-3.0P	2455280300		
SAIL-M12GM12W-L-5.0P	2455280500		
SAIL-M12GM12W-L-10P	2455281000		
Male, angled - Female, angled			
SAIL-M12WM12W-L-1.5P	2455300150		
SAIL-M12WM12W-L-3.0P	2455300300		
SAIL-M12WM12W-L-5.0P	2455300500		
SAIL-M12WM12W-L-10P	2455301000		
Male, angled - female, straight			
SAIL-M12WM12G-L-1.5P	2455320150		
SAIL-M12WM12G-L-3.0P	2455320300		
SAIL-M12WM12G-L-5.0P	2455320500		
SAIL-M12WM12G-L-10P	2455321000		

Technical data

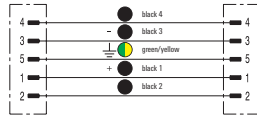
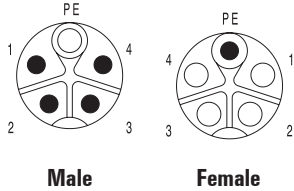
Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	50 V
Approvals	cULus

Dimensioned drawing





Connecting cables
M12
K-coded



Ordering data

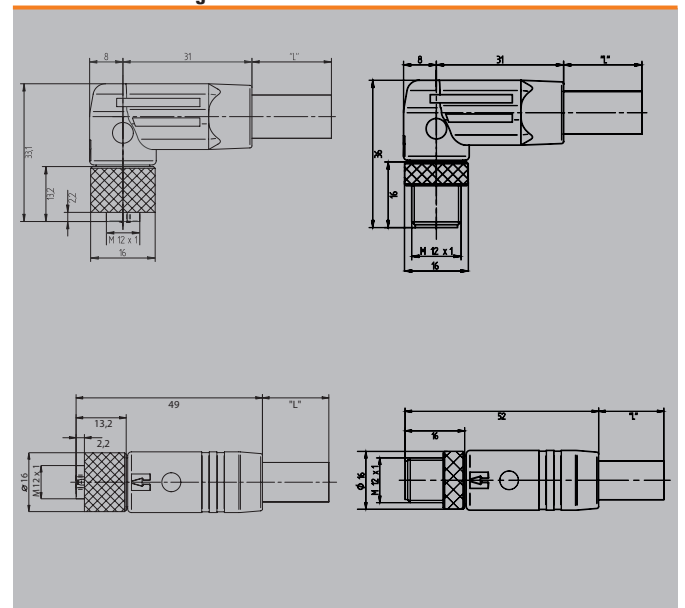
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	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-K-1.5P	2455250150
SAIL-M12GM12G-K-3.0P	2455250300
SAIL-M12GM12G-K-5.0P	2455250500
SAIL-M12GM12G-K-10P	2455251000
Male, straight - Female, angled	
SAIL-M12GM12W-K-1.5P	2455270150
SAIL-M12GM12W-K-3.0P	2455270300
SAIL-M12GM12W-K-5.0P	2455270500
SAIL-M12GM12W-K-10P	2455271000
Male, angled - Female, angled	
SAIL-M12WM12W-K-1.5P	2455290150
SAIL-M12WM12W-K-3.0P	2455290300
SAIL-M12WM12W-K-5.0P	2455290500
SAIL-M12WM12W-K-10P	2455291000
Male, angled - female, straight	
SAIL-M12WM12G-K-1.5P	2455310150
SAIL-M12WM12G-K-3.0P	2455310300
SAIL-M12WM12G-K-5.0P	2455310500
SAIL-M12WM12G-K-10P	2455311000

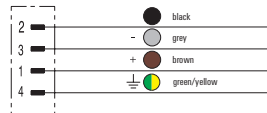
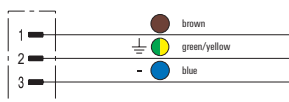
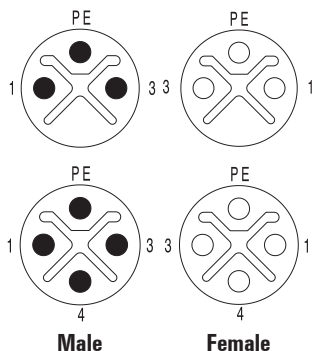
Technical data

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

Dimensioned drawing



One end without connector
M12
S-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

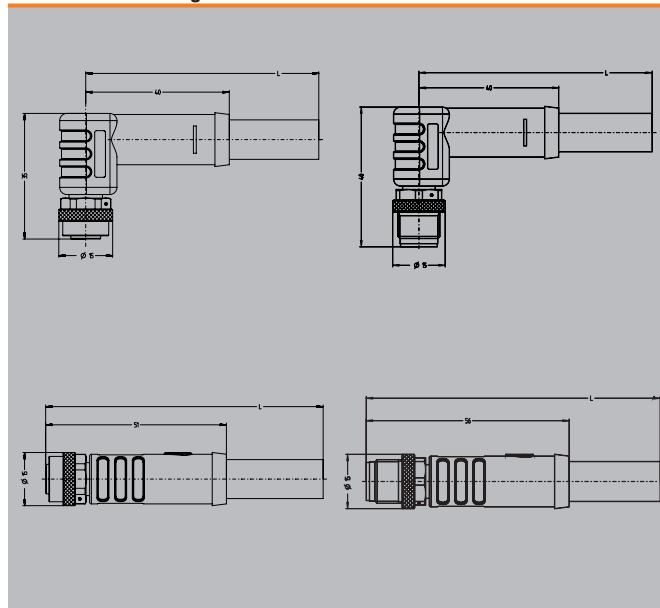
3-pole	
SAIL-M12G-S3-1.5P	2050020150
SAIL-M12G-S3-3.0P	2050020300
SAIL-M12G-S3-5.0P	2050020500
SAIL-M12G-S3-10P	2050021000
3-pole, angled	
SAIL-M12W-S3-1.5P	2050050150
SAIL-M12W-S3-3.0P	2050050300
SAIL-M12W-S3-5.0P	2050050500
SAIL-M12W-S3-10P	2050051000
3-pole, female	
SAIL-M12BG-S3-1.5P	2049950150
SAIL-M12BG-S3-3.0P	2049950300
SAIL-M12BG-S3-5.0P	2049950500
SAIL-M12BG-S3-10P	2049951000
3-pole, female, angled	
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
4-pole, angled	
SAIL-M12W-S-1.5P	2050260150
SAIL-M12W-S-3.0P	2050260300
SAIL-M12W-S-5.0P	2050260500
SAIL-M12W-S-10P	2050261000
4-pole, female	
SAIL-M12BG-S-1.5P	2050160150
SAIL-M12BG-S-3.0P	2050160300
SAIL-M12BG-S-5.0P	2050160500
SAIL-M12BG-S-10P	2050161000
4-pole, female, angled	
SAIL-M12BW-S-1.5P	2050210150
SAIL-M12BW-S-3.0P	2050210300
SAIL-M12BW-S-5.0P	2050210500
SAIL-M12BW-S-10P	2050211000

Technical data

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	

Dimensioned drawing



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

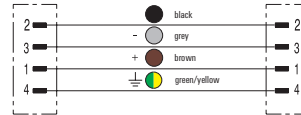
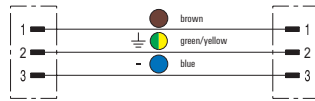
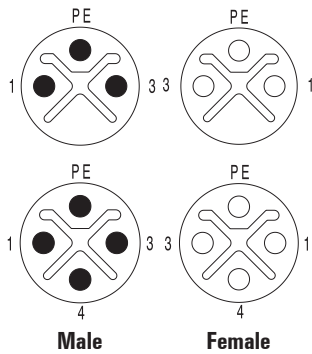
Infrastructure



Connecting cables

M12

S-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

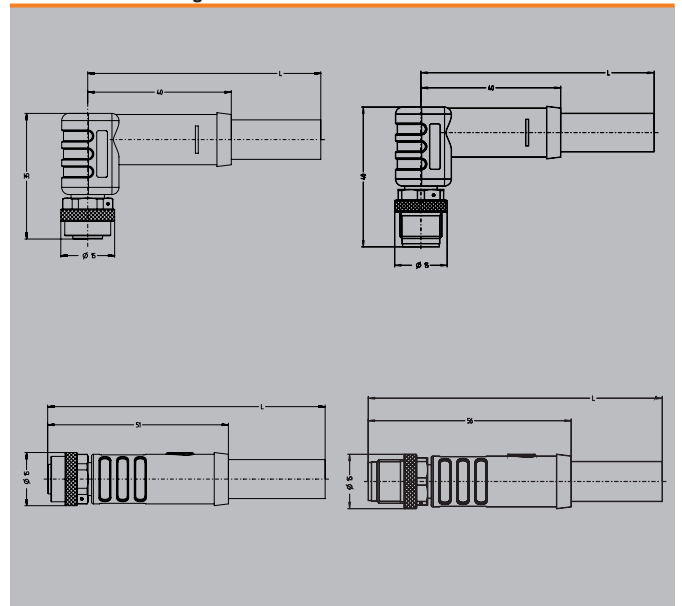
3-pole	
SAIL-M12GM12G-S3-1.5P	2050060150
SAIL-M12GM12G-S3-3.0P	2050060300
SAIL-M12GM12G-S3-5.0P	2050060500
SAIL-M12GM12G-S3-10P	2050061000
SAIL-M12GM12W-S3-1.5P	2050100150
SAIL-M12GM12W-S3-3.0P	2050100300
SAIL-M12GM12W-S3-5.0P	2050100500
SAIL-M12GM12W-S3-10P	2050101000
SAIL-M12WM12W-S3-1.5P	2050150150
SAIL-M12WM12W-S3-3.0P	2050150300
SAIL-M12WM12W-S3-5.0P	2050150500
SAIL-M12WM12W-S3-10P	2050151000
SAIL-M12WM12G-S3-1.5P	2050080150
SAIL-M12WM12G-S3-3.0P	2050080300
SAIL-M12WM12G-S3-5.0P	2050080500
SAIL-M12WM12G-S3-10P	2050081000

4-pole	
SAIL-M12GM12G-S-1.5P	2050270150
SAIL-M12GM12G-S-3.0P	2050270300
SAIL-M12GM12G-S-5.0P	2050270500
SAIL-M12GM12G-S-10P	2050271000
SAIL-M12GM12W-S-1.5P	2050460150
SAIL-M12GM12W-S-3.0P	2050460300
SAIL-M12GM12W-S-5.0P	2050460500
SAIL-M12GM12W-S-10P	2050461000
SAIL-M12WM12W-S-1.5P	2050470150
SAIL-M12WM12W-S-3.0P	2050470300
SAIL-M12WM12W-S-5.0P	2050470500
SAIL-M12WM12W-S-10P	2050471000
SAIL-M12WM12G-S-1.5P	2050350150
SAIL-M12WM12G-S-3.0P	2050350300
SAIL-M12WM12G-S-5.0P	2050350500
SAIL-M12WM12G-S-10P	2050351000

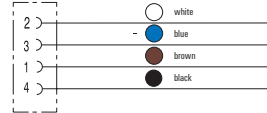
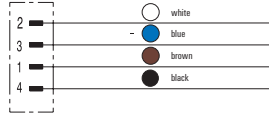
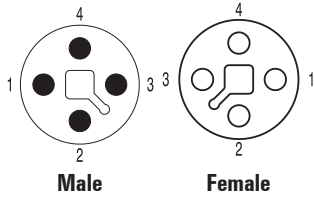
Technical data

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-30...+90 °C
Rated voltage	600 V
Approvals	

Dimensioned drawing



One end without connector
M12
T-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

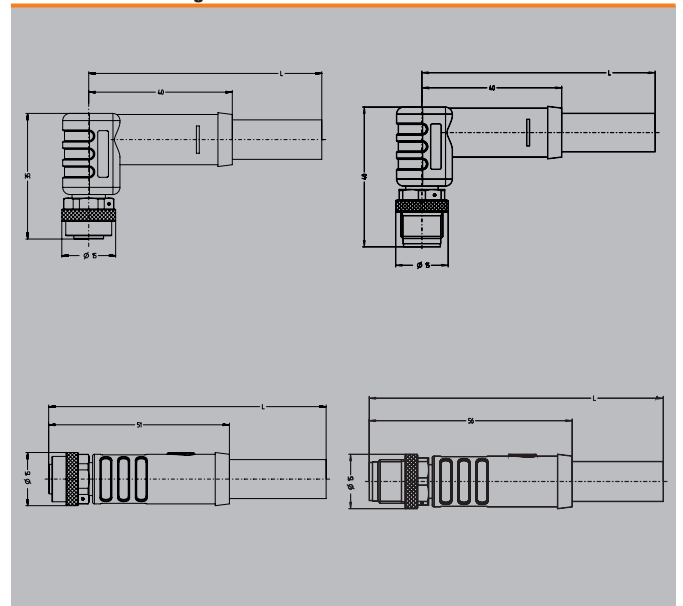
1.5 mm ²	
SAIL-M12G-T-1.5P	2050640150
SAIL-M12G-T-3.0P	2050640300
SAIL-M12G-T-5.0P	2050640500
SAIL-M12G-T-10P	2050641000
SAIL-M12W-T-1.5P	2050650150
SAIL-M12W-T-3.0P	2050650300
SAIL-M12W-T-5.0P	2050650500
SAIL-M12W-T-10P	2050651000
SAIL-M12BG-T-1.5P	2050490150
SAIL-M12BG-T-3.0P	2050490300
SAIL-M12BG-T-5.0P	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 ²	
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

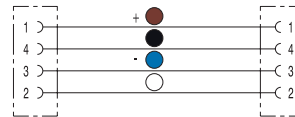
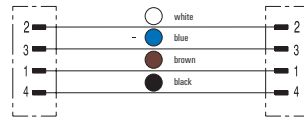
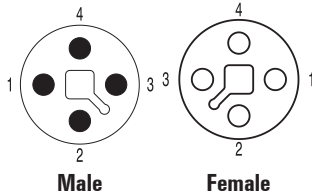
Transportation

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
Note	

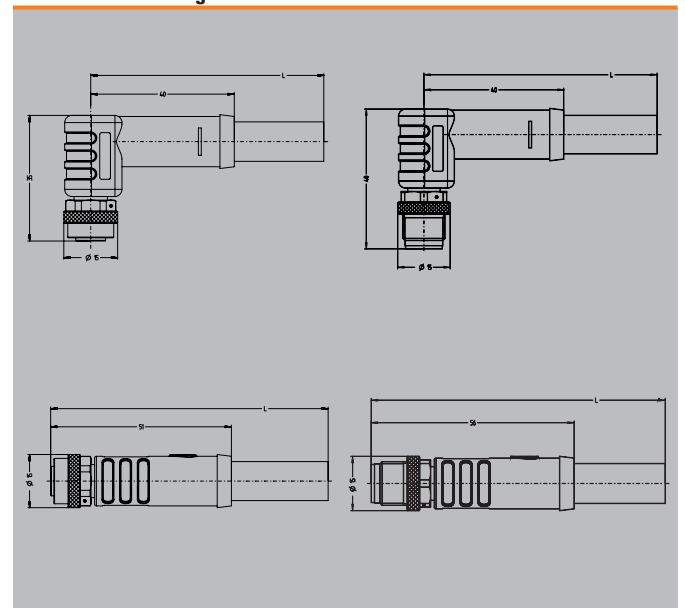
1.5 mm ²	
SAIL-M12GM12G-T-1.5P	2050760150
SAIL-M12GM12G-T-3.0P	2050760300
SAIL-M12GM12G-T-5.0P	2050760500
SAIL-M12GM12G-T-10P	2050761000
1.5 mm ²	
SAIL-M12GM12W-T-1.5P	2050830150
SAIL-M12GM12W-T-3.0P	2050830300
SAIL-M12GM12W-T-5.0P	2050830500
SAIL-M12GM12W-T-10P	2050831000
1.5 mm ²	
SAIL-M12WM12W-T-1.5P	2050860150
SAIL-M12WM12W-T-3.0P	2050860300
SAIL-M12WM12W-T-5.0P	2050860500
SAIL-M12WM12W-T-10P	2050861000
1.5 mm ²	
SAIL-M12WM12G-T-1.5P	2050820150
SAIL-M12WM12G-T-3.0P	2050820300
SAIL-M12WM12G-T-5.0P	2050820500
SAIL-M12WM12G-T-10P	2050821000

2.5 mm ²	
SAIL-M12GM12G-T-1.5H	2050870150
SAIL-M12GM12G-T-3.0H	2050870300
SAIL-M12GM12G-T-5.0H	2050870500
SAIL-M12GM12G-T-10H	2050871000
2.5 mm ²	
SAIL-M12GM12W-T-1.5H	2050910150
SAIL-M12GM12W-T-3.0H	2050910300
SAIL-M12GM12W-T-5.0H	2050910500
SAIL-M12GM12W-T-10H	2050911000
2.5 mm ²	
SAIL-M12WM12W-T-1.5H	2050920150
SAIL-M12WM12W-T-3.0H	2050920300
SAIL-M12WM12W-T-5.0H	2050920500
SAIL-M12WM12W-T-10H	2050921000
2.5 mm ²	
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

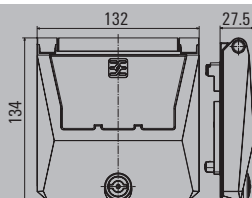


FrontCom® Vario

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

Technical data

Machinery

Process

Energy

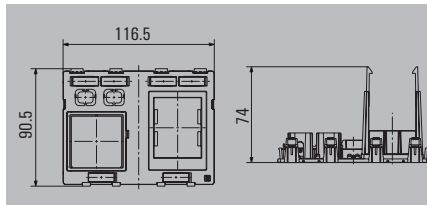
Transportation

Device
Manufacturers

Infrastructure

FrontCom® Vario**Insert plates for double frames**

- IP20

1 x power, 2 x data, 1 x LS switch**Technical data**

Material
Insert, data
Insert Power large
Preparation of LS switch (2 pitch)
Insert 2 x Power US + GFCI
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
2
1
1
-40 °C...70 °C

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-DSP-PWB/2ST/FILS	1	2067080000
IE-FC-DIP-PWB/2ST/FILS	1	2067070000

Accessories**Inserts, Power**

Socket AU 15 A
Socket AU 10 A
Socket CH
Socket CN
Socket GB
Socket DE
Socket DE orange
Socket FR
Socket FR orange
Socket IT/EU
Socket CZ
Socket IND
RCBO

Type	Qty.	Order No.
IE-FCI-PWB-AU	1	1450830000
IE-FCI-PWB-AU-10A	1	1546590000
IE-FCI-PWB-CH	1	1450780000
IE-FCI-PWB-CN	1	1450790000
IE-FCI-PWB-GB	1	1450770000
IE-FCI-PWB-DE	1	1450730000
IE-FCI-PWB-DE-OR	1	1554000000
IE-FCI-PWB-FR	1	1450750000
IE-FCI-PWB-FR-OR	1	2007230000
IE-FCI-PWB-IT	1	1450810000
IE-FCI-PWB-CZ	1	2426700000
IE-FCI-PWB-IND	1	2500710000
IE-FCI-PWB-RCBO	1	1534250000

Inserts, Data

RJ45 coupling
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
RJ45 module EIA/TIA T568 A
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B

IE-BI-RJ45-C	10	1962840000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

Markers

for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

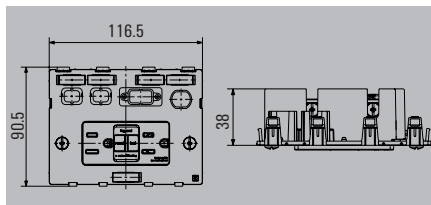
Note

FrontCom® Vario

Insert plates for double frames

- IP20

1x GFCI, 2x data, 1x signal, 1x fuse



Technical data

Material
Insert, data
Insert Power large
Insert fuse
Signal insert D-Sub 9-pole / VGA / HDMI
Preparation of LS switch (2 TE)
Insert 2 x Power US + GFCI
Ambient temperature (operational)
Approvals

Polycarbonate PC
2
1
1
1
-35 °C...66 °C

Technical data GFCI insert

Operating voltage / Rated current
GFCI protected US outlet
Self-test
Status indication
Type of connection
Line connection cross-section
finely stranded with wire-end ferrule
finely stranded with wire-end ferrule
Conductor connection cross-section, solid

125 V AC / 20 A
2 pieces
automatically every 3 seconds
red LED
Screw connection
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²

Note

Ordering data

shielded
unshielded
Note

Type	Qty.	Order No.
IE-FC-DSP-CI/3A/2ST/1D9	1	2004810000
IE-FC-DIP-CI/3A/2ST/1D9	1	2003370000
incl. pre-mounted GFCI		

Accessories

Inserts, Signal
D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
Fuse inserts
3 A
Inserts, Data
RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B
Markers
for touch-safe protection and insert plates

Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-PWCB-3A	1	1543690000
IE-BI-RJ45-C	10	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044

Note

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

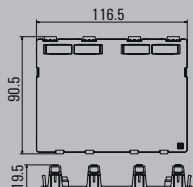
Infrastructure

FrontCom® Vario

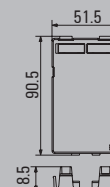
Insert plates

- IP20

blank double plate



blank single plate



Technical data

Material	
Ambient temperature (operational)	
Approvals	
Note	

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

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

Ordering data

	unshielded
Note	

Type	Qty.	Order No.
IE-FC-DIP-BP	1	2004890000

Type	Qty.	Order No.
IE-FC-IP-BP	1	1450710000

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Note	
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Note	
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Note	
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

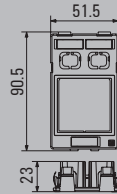
Infrastructure

FrontCom® Vario

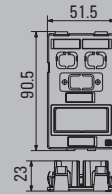
Insert plates

- 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
Note

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

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

Ordering data

shielded
unshielded
Note

Type	Qty.	Order No.
IE-FC-SP-PWB/2ST	1	1450550000
IE-FC-IP-PWB/2ST	1	1450630000

Type	Qty.	Order No.
IE-FC-SP-PWS/2ST/1D9	1	1450600000
IE-FC-IP-PWS/2ST/1D9	1	1450690000

Accessories

Inserts, Power	
Socket AU 15 A	
Socket AU 10 A	
Socket CH	
Socket CN	
Socket GB	
Socket DE	
Socket DE orange	
Socket FR	
Socket FR orange	
Socket IT/EU	
Socket CZ	
Socket IND	
RCBO	
Inserts, Data	
RJ45 coupling	
RJ45 module EIA/TIA T568 B	
RJ45 module PROFINET	
RJ45 module EIA/TIA T568 A	
USB 2.0 A / A	
USB 3.0 A / A	
USB 2.0 A / B	
Markers	
for touch-safe protection and insert plates	
Touch-safe protection	
Touch-safe protection	
Inserts, Signal	
D-Sub, 9-pole, female/female	
D-Sub, 9-pole, female / male	
D-Sub, 9-pole, female / solder connection	
Note	

Type	Qty.	Order No.
IE-FCI-PWB-AU	1	1450830000
IE-FCI-PWB-AU-10A	1	1546590000
IE-FCI-PWB-CH	1	1450780000
IE-FCI-PWB-CN	1	1450790000
IE-FCI-PWB-GB	1	1450770000
IE-FCI-PWB-DE	1	1450730000
IE-FCI-PWB-DE-OR	1	1554000000
IE-FCI-PWB-FR	1	1450750000
IE-FCI-PWB-FR-OR	1	2007230000
IE-FCI-PWS-IT	1	1450810000
IE-FCI-PWB-CZ	1	2426700000
IE-FCI-PWB-IND	1	2500710000
IE-FCI-PWB-RCBO	1	1534250000
IE-BI-RJ45-C	10	1962840000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
IE-BI-RJ45-C	10	1962840000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

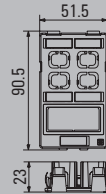
Infrastructure

FrontCom® Vario

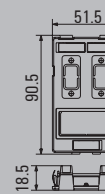
Insert plates

- IP20

1 x power, 4 x data



1 x power, 2 x signal



Technical data

Material
Insert, data
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals
Note

Polycarbonate PC
4
2
1
-40 °C...70 °C
CURUS; GERMLLOYD
Note

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

Ordering data

shielded
unshielded
Note

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

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

Accessories

Inserts, Power	Socket IT/EU
Inserts, Data	RJ45 coupling
	RJ45 module EIA/TIA T568 A
	RJ45 module EIA/TIA T568 B
	RJ45 module PROFINET
	USB 2.0 A / A
	USB 3.0 A / A
	USB 2.0 A / B
Markers	for touch-safe protection and insert plates
Touch-safe protection	Touch-safe protection
Inserts, Signal	D-Sub, 9-pole, female/female
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection
Note	

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
IE-BI-RJ45-C	10	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
Note		

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
Note		
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
Note		

Note

Note

Note

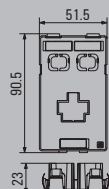


FrontCom® Vario

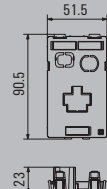
Insert plates

- 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
Note

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

Polycarbonate PC
1
1
-40 °C...70 °C

Ordering data

	shielded
	unshielded
Note	

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
Note	

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

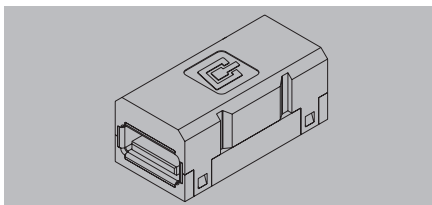
Device Manufacturers

Infrastructure

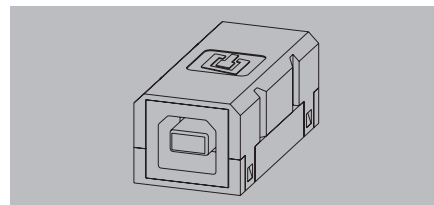
Data inserts
USB

- Cat. 6_A
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

Coupling USB A/A



Coupling USB A/B



Technical data

Protection degree
Shielding
Ambient temperature (operational)
Connection 1 / 2
Connector standard
Approvals

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

Note

Ordering data

Type	Qty.	Order No.
USB 2.0	10	1019570000
USB 3.0	10	1487920000

Note

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000

Type	Qty.	Order No.

Type	Qty.	Order No.
IE-BI-USB-AB	10	1131380000

Type	Qty.	Order No.

Note

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

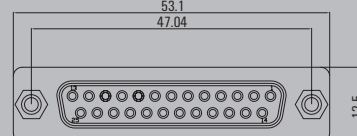
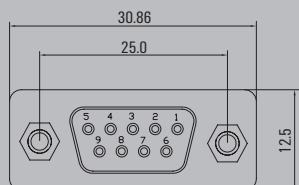
Signal inserts

D-sub

- IP20

9-pole

25-pole



Technical data

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

IP20
SPCC
9
tin-plated
PBT glass fibre reinforced UL 94 V-0
Gold-plated
≤ 20 mΩ
1000 MΩ at 500 V DC
1 kV _{eff} / 1 min.
-55 °C...105 °C
GERMLLOYD

IP20
SPCC
25
tin-plated
PBT glass fibre reinforced UL 94 V-0
Gold-plated
≤ 20 mΩ
1000 MΩ at 500 V DC
1 kV _{eff} / 1 min.
-55 °C...105 °C
GERMLLOYD

Note

Ordering data

- Socket / socket
- Socket / plug
- Socket / 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-D25-FF	1	1450880000
IE-FCI-D25-FM	1	1450890000
IE-FCI-D25-FS	1	1450900000

Note

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Note

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

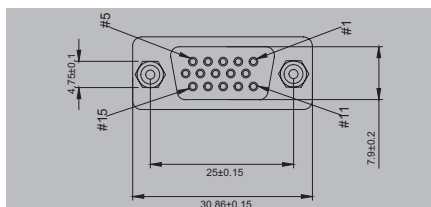
Signal inserts

- 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
Note

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

IP20
25
Gold over nickel
1000 MΩ at 500 V DC
1000 V _{eff} / 1 min
-55 °C...105 °C
GERMLLOYD

Ordering data

Note

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.

Note

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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

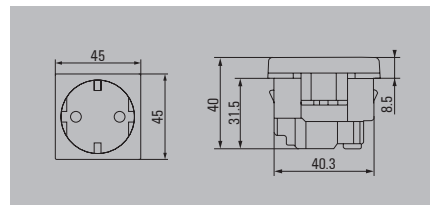
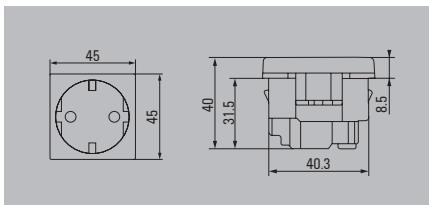
Power inserts
Power sockets

- 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 ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 1.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, solid	1.5 ... 2.5 mm ²
Stripping length	10 mm
Rated voltage (AC)	250 V
Rated current	16 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
Note	

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

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

Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-DE	1	1450730000
Note		

Type	Qty.	Order No.
IE-FCI-PWB-DE	1	1450730000
Note		

Type	Qty.	Order No.
IE-FCI-PWB-DE-OR	1	1554000000
Note		

Accessories

Type	Qty.	Order No.
Note		

Type	Qty.	Order No.
Note		

Type	Qty.	Order No.
Note		

Note

Note

Note

Technical data

Machinery

Process

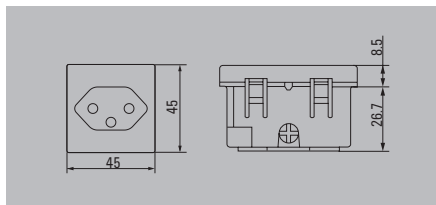
Energy

Transportation

Device Manufacturers

Infrastructure

Switzerland

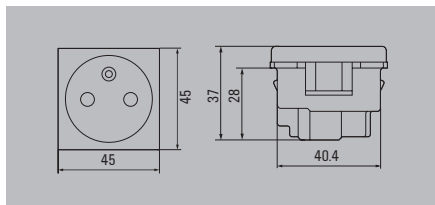


IP20
Polycarbonate PC
PUSH IN
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
10 mm
250 V
10 A
-5 °C...50 °C
GERMLLOYD

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

Type	Qty.	Order No.

France, white

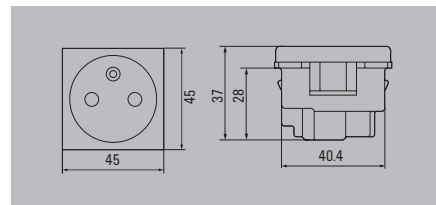


IP20
Polycarbonate PC
PUSH IN
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
10 mm
250 V
16 A
-5 °C...50 °C
GERMLLOYD

Type	Qty.	Order No.
IE-FCI-PWB-FR	1	1450750000

Type	Qty.	Order No.

France, orange



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

Type	Qty.	Order No.
IE-FCI-PWB-FR-OR	1	2007230000

Type	Qty.	Order No.

Technical data

Machinery

Process

Energy

Transportation

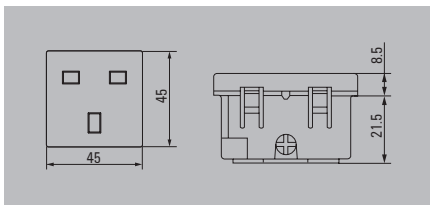
Device Manufacturers

Infrastructure

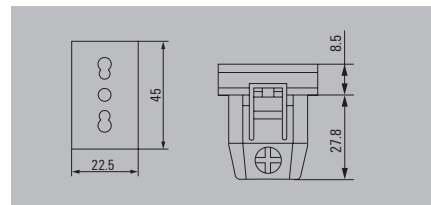
Power inserts
Power sockets

- IP20

UK



Italy / Europe



Technical data

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 4 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 4 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
Conductor connection cross-section, solid	1.5 ... 4 mm ²
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	13 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
Note	

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

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

Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-GB	1	1450770000
Note		

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
Note		

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000
Note		

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Note		
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Note		
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Note		
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Technical data

Machinery

Process

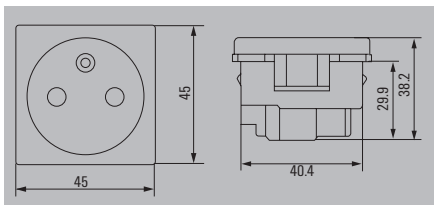
Energy

Transportation

Device Manufacturers

Infrastructure

Czech Republic

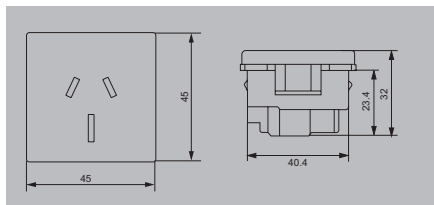


IP20
Polycarbonate PC
PUSH IN
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
12 mm
250 V
16 A
-5 °C...50 °C

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

Type	Qty.	Order No.

Australia, 15 A

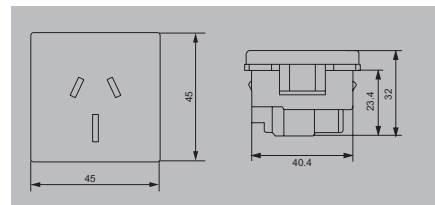


IP20
Polycarbonate PC
Screw connection
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 4 mm ²
9 mm
240 V
15 A
-5 °C...50 °C
GERMLLOYD

Type	Qty.	Order No.
IE-FCI-PWB-AU	1	1450830000

Type	Qty.	Order No.

Australia, 10 A



IP20
Polycarbonate PC
Screw connection
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 4 mm ²
9 mm
240 V
10 A
-5 °C...50 °C
GERMLLOYD

Type	Qty.	Order No.
IE-FCI-PWB-AU-10A	1	1546590000

Type	Qty.	Order No.

Technical data

Machinery

Process

Energy

Transportation

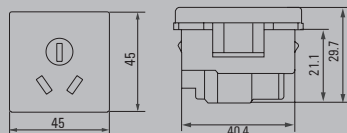
Device Manufacturers

Infrastructure

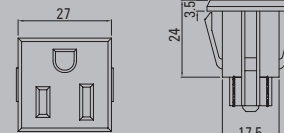
Power inserts
Power sockets

- IP20

China



USA



Technical data

Protection degree	IP20
Housing main material	Polycarbonate PC
Type of connection	Screw connection
Line connection cross-section	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 4 mm ²
finely stranded without wire-end ferrule	1.5 ... 2.5 mm ²
finely stranded with wire-end ferrule	1.5 ... 4 mm ²
finely stranded without wire-end ferrule	1.5 ... 4 mm ²
Conductor connection cross-section, solid	1.5 ... 4 mm ²
Stripping length	9 mm
Rated voltage (AC)	250 V
Rated current	10 A
Ambient temperature (operational)	-5 °C...50 °C
Approvals	GERMLLOYD
Note	

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

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

Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-CN	1	1450790000
Note		

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

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

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Note		
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Note		
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Note		
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Technical data

Machinery

Process

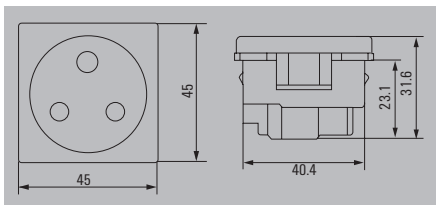
Energy

Transportation

Device
Manufacturers

Infrastructure

India



IP20
Polycarbonate PC
Screw connection
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
9 mm
250 V
13 A
-5 °C...50 °C

Type	Qty.	Order No.
IE-FCI-PWB-IND	1	2500710000

Type	Qty.	Order No.

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

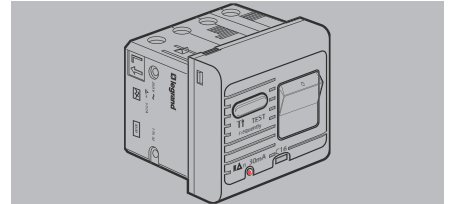
Infrastructure

Power inserts

RCBO

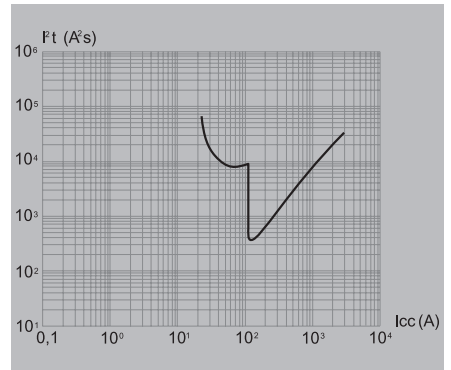
- IP20

RCBO



Technical data

Ambient temperature (operational)	-5 °C...40 °C
Operating voltage	230 V AC
Rated current	16 A
I Δ m	500 A
I Δ 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 ²
finely stranded with wire-end ferrule	1.5 ... 2.5 mm ²
Conductor connection cross-section, solid	1.5 ... 2.5 mm ²
Note	



Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-RCBO	1	1534250000
Note		

Accessories

Type	Qty.	Order No.

Note

Technical data

Machinery

Process

Energy

Transportation

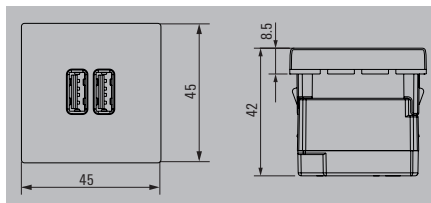
Device
Manufacturers

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 mm²
1.5 ... 2.5 mm²
1.5 ... 2.5 mm²
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



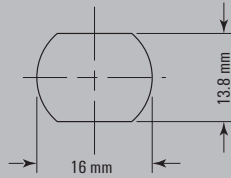
Infrastructure



3A fuse

- IP20

3A fuse



Technical data

Operating voltage
Rated current
Type of connection
Note

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

Ordering data

Note

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

Accessories

Flat blade connector, 6.5 mm	angled
	straight

Type	Qty.	Order No.
WFSKHV/1,5-2,5	100	1491970000
VFSKHV/1,5-2,5/638	100	1491940000

Note

Note

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process

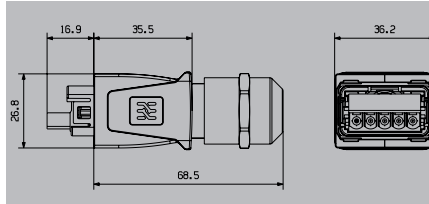


Machinery

Technical data

Plug PushPull Power

Plug Power 24 V



Technical data

General data

Protection degree
 Connector standard
 Ambient temperature (operational)
 No. of poles
 Wire connection cross-section, flexible, min./max.
 Sheath diameter, min. / max.
 Connection
 Approvals

IP65, IP67
 in accordance with PROFINET specification
 -40 °C...70 °C
 5
 0.75 mm² / 2.5 mm²
 6 mm / 13 mm
 Tension clamp

Material properties

Housing base material
 Sealing material
 Cable sealing material
 Contact material / Contact surface
 UL 94 flammability rating
 Pollution severity level
 Plugging cycles

Zinc diecast, nickel-plated
 NBR
 EPDM
 Copper alloy / Gold over nickel
 V-2
 2
 ≥ 100

Electrical properties*

Current-carrying capacity at 50 °C
 Rated voltage

16 A
 24 V

Note

Ordering data - Sets

Note

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

Ordering data - Empty housings

Note

Type	Qty.	Order No.

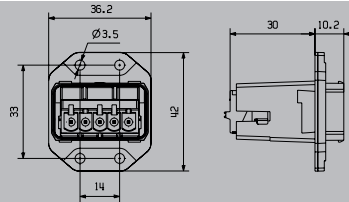
Note

Flanges PushPull Power

Flange Power 24 V



PROFI
NET



Technical data

General data

Protection degree
Connector standard
Ambient temperature (operational)
No. of poles
Connection diameter, flexible, min. / max.
Connection 1
Approvals
Installation

IP67
in accordance with PROFINET specification
-40 °C...70 °C
5
0.75 mm² / 2.5 mm²
Tension clamp
4 screws

Material properties

Housing base material
Sealing material
Cable sealing material
Contact carrier material
Contact material / Contact surface
UL 94 flammability rating
Pollution severity level
Plugging cycles

Zinc diecast, nickel-plated
NBR
EPDM
PA
Copper alloy / Gold over nickel
V-2
2
≥ 100

Electrical properties*

Current-carrying capacity at 50 °C
Rated voltage

16 A
24 V

Note

Ordering data - Sets

Note

Type	Qty.	Order No.
IE-BSS-VAPM-24V	1	2493480000

Ordering data - Empty housings

Device flange

Note

Type	Qty.	Order No.
IE-BHD-VAPM	1	2493490000

Accessories

Dust protection cap

IP54 protective cap
Dust cap

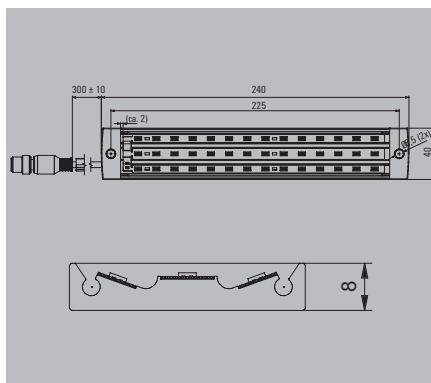
Type	Qty.	Order No.
IE-BP-VAPP	10	1068930000
IE-BP-VAPP-DC	10	2494060000

Note



Weidmüller Industry Light

WIL Standard



Ordering data

	0.3 m cable length
Note	

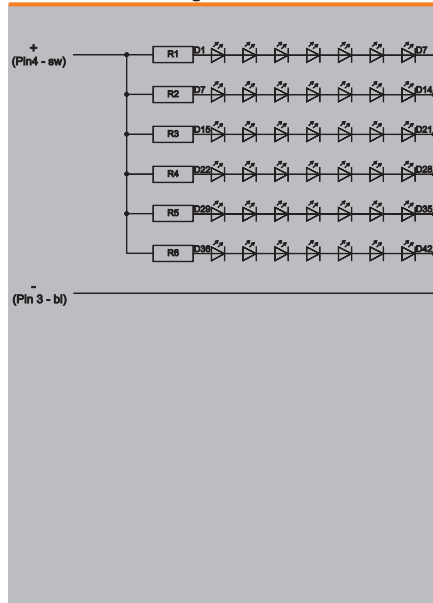
WIL Standard

Type	QTY	Order No.
WIL-STANDARD	1	2436210000

Technical data

Light colour (CCT)	6500K
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC ± 10%
Rated current	420 mA
Illumination level	140 lux ± 10 lux at 1 m and 24 V
Operating life	10.000 h
L x W x H	225 / 40 / 8 mm
Housing main material	hard anodised aluminium
Material of end caps	Nickel-plated CuZn
Number of LEDs	52
Cable length	0.3 m
Wiring	M12: Pin 4 = connecting wire, Pin 3 = earth
Cable Material	TPE
Threaded ring material	PA
Protection degree	IP67

Dimensioned drawing



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



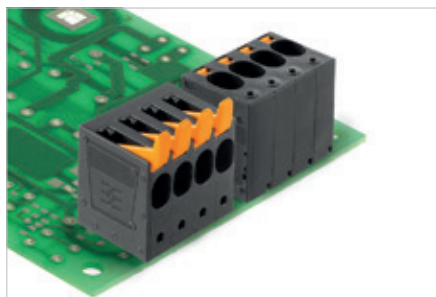
Process



Machinery

Technical data

LUF 10.00/./90V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm².

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction of 90°

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.5...16	
Ferrule with plastic collar	mm ²	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	20-4	
CSA (Use Group)	B C D		
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	20-4	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 58 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmueller.com

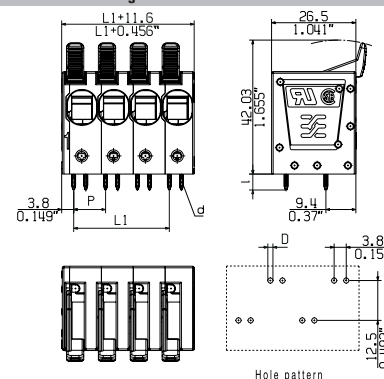
Note:

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



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

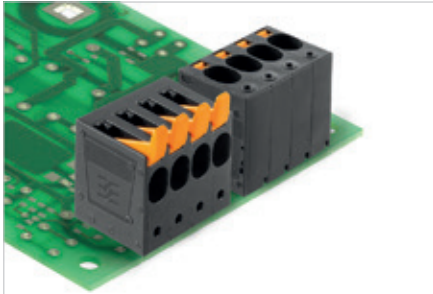
Energy

Transportation

Device Manufacturers

Infrastructure

LUF5 10.00../180



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm².

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 180° version

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.5...16	
Ferrule with plastic collar	mm ²	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	630	690 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	150 600
Rated current	A	61	61 5
AWG conductor	AWG		20-4
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG		20-4
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 300 V / 61 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmueller.com

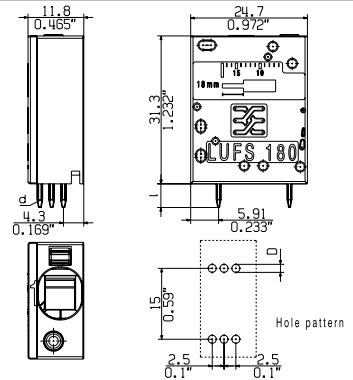
Note:

- 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.

LUF5 10.00../180



Dimensioned drawing



Ordering data

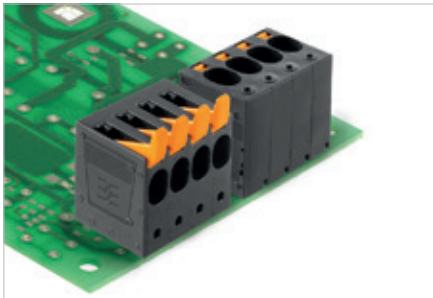
Solder pin length		5 mm		
Colour		Black		
Pitch		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	50	2491810000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

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

LUFS 10.00/./180V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm².

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 180° version

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.5...16	
Ferrule with plastic collar	mm ²	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	20-4	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	58	58 5
AWG conductor	AWG	20-4	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 58 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

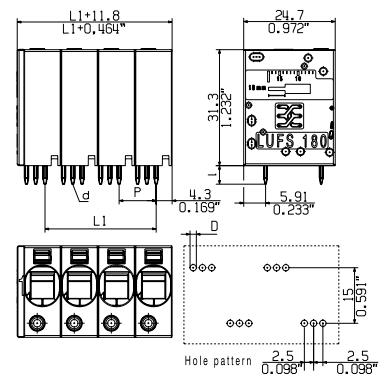
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 10.00/./180V



Dimensioned drawing



Accessories

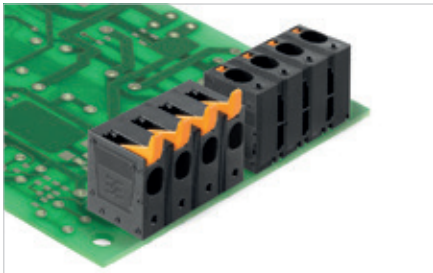
Note: Refer to the Accessories chapter for additional accessories.

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

Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		10.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	10.00	0.394	40	2492110000
3	20.00	0.787	40	2492120000
4	30.00	1.181	30	2492130000
5	40.00	1.575	25	2492140000
6	50.00	1.969	20	2492150000
7	60.00	2.362	10	2492160000
8	70.00	2.756	10	2492170000
9	80.00	3.150	10	2492180000
10	90.00	3.543	10	2492190000
11	100.00	3.937	10	2492200000
12	110.00	4.331	10	2492210000

LUF 15.00/..90



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm² in 15.00 mm pitch

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 90° version

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.5...16	
Ferrule with plastic collar	mm ²	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
CSA (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

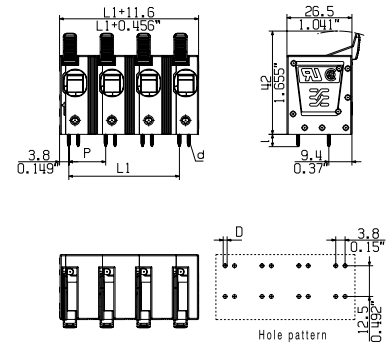
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 15.00/..90



Dimensioned drawing



Accessories

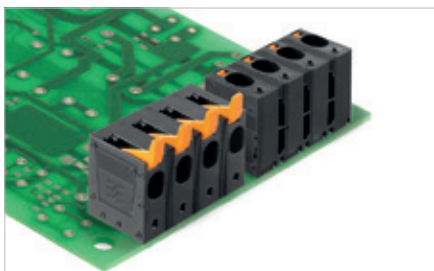
Note: Refer to the Accessories chapter for additional accessories.

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

Ordering data

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

LUF 15.00/./90V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm² in 15.00 mm pitch

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction of 90°

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.5...16	
Ferrule with plastic collar	mm ²	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section		III	III II
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmueller.com

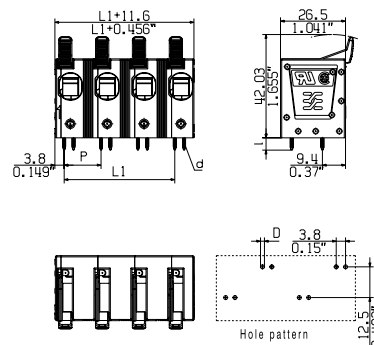
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUF 15.00/./90V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

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

Ordering data

Solder pin length		5 mm		
Colour		Black		
Pitch		15.00 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	15.00	0.590	40	2492000000
3	30.00	1.181	40	2492010000
4	45.00	1.772	30	2492020000
5	60.00	2.362	25	2492030000
6	75.00	2.953	20	2492040000
7	90.00	3.543	10	2492050000
8	105.00	4.134	10	2492060000



Technical data

Machinery

Process

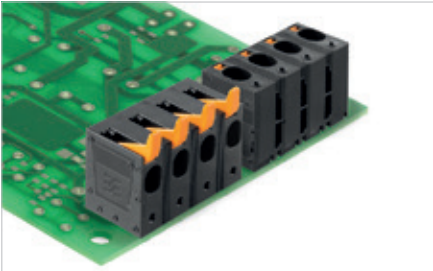
Energy

Transportation

Device Manufacturers

Infrastructure

LUFS 15.00/./180V



High-performance PCB terminal block with PUSH IN connection technology for conductor cross-sections up to 16 mm² in 15.00 mm pitch

- Fast connection thanks to pusher to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction and activation in 180° version

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...16	
Solid core H05(07) V-U	mm²	0.5...16	
Stranded H07 V-R	mm ²	6...16	
Flexible H05(07) V-K	mm ²	0.5...16	
Flexible with ferrule	mm ²	0.5...16	
Ferrule with plastic collar	mm ²	0.5...16	
Stripping length	mm	18	
Screwdriver blade	mm	0.8 x 4.0	
According to norm			
Tightening torque range			
Rated current, max.	A	76	76
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
CSA (Use Group)	B C D	B	C D
Rated voltage	V	600	600 600
Rated current	A	66	66 10
AWG conductor	AWG	20-4	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2, Octagonal	
Solder eyelet Ø = D	mm	1.6	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
 UL: 600 V / 66 A / AWG 20 - 4



For additional articles and information, refer to catalog.weidmuller.com

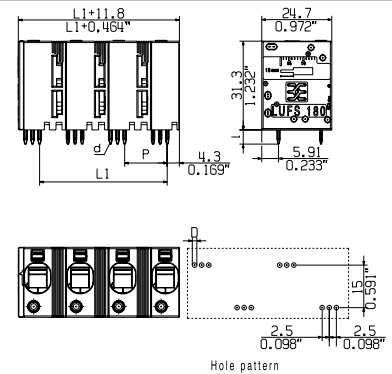
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LUFS 15.00/./180V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

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

Ordering data

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



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

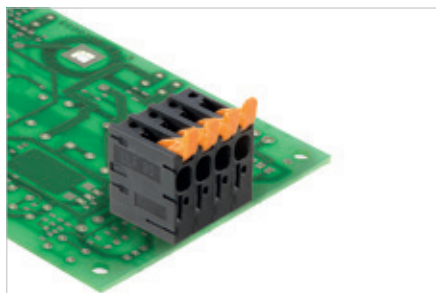
Energy

Transportation

Device Manufacturers

Infrastructure

LLF 7.50/./90



High-performance PCB terminal block with PUSH IN connection technology for wire cross-sections up to 6 mm².

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Wire outlet direction of 90°

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.25...6	
Solid core H05(07) V-U	mm ²	0.5...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
Rated current, max.	A		
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	600	600 1000
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 0.5 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

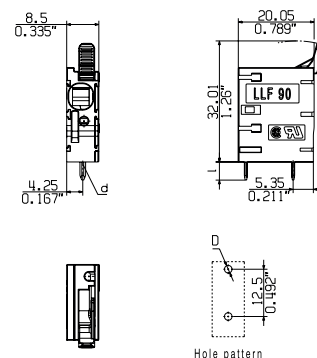
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- The test point can only be used as potential-pickup point.

LLF 7.50/./90



Dimensioned drawing



Accessories

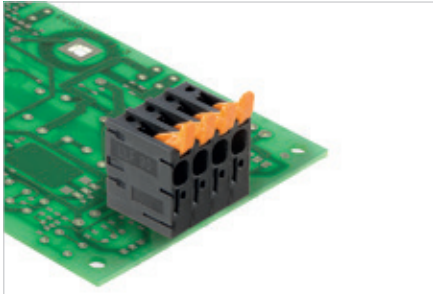
Note: Refer to the Accessories chapter for additional accessories.

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

Ordering data

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

LLF 7.50/./90V



High-performance PCB terminal with PUSH IN connection technology for conductor cross-sections up to 6 mm².

- Fast connection without tools thanks to an operating lever to open the contact point, or direct plug-in method
- Securely closed contact point; with the „Connection Safety Concept“ means the conductor is always clamped securely
- Integrated test point for PS 2.0 test plug
- Central tip test point for test probes on the upper side of the terminal
- Increased derating reserves because WEMID insulating material is used
- Conductor outlet direction in 90° version

preliminary Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.25...6	
Solid core H05(07) V-U	mm²	0.5...6	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	0.25...6	
Ferrule with plastic collar	mm ²	0.25...6	
Stripping length	mm	12	
Screwdriver blade	mm		
According to norm			
Tightening torque range			
Rated current, max.	A		
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	1000	1000 1000
Rated impulse voltage	kV	8	8 8
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600
Rated current	A	35	35
AWG conductor	AWG	24-10	
General data			
Type of insulation material		Wemid (PA)	
UL 94 flammability rating		V-0	
Contact base material		E-Cu	
Material of contact surface			
Pin dimensions = d	mm	1.2	
Solder eyelet Ø = D	mm	2	
Solder eyelet Ø tolerance	mm	+ 0,1	

Product data

IEC: 1000 V / 0.5 - 6 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

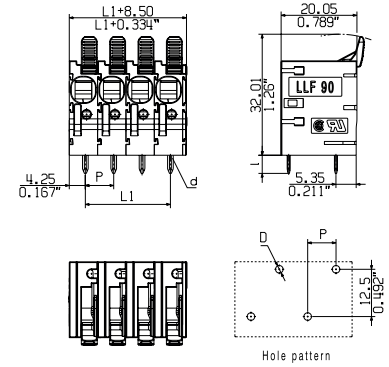
Note:

- 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/./90V



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

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

Ordering data

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

Stripping and crimping machines

- Purely electrically driven for processing harmonised PVC conductors
- Crimping range from 0.5 - 2.5 mm² (AWG 20 - 14)
- Weidmüller wire-end ferrules interlinked on reel
- Adjustable stripping blade
- Integrated daily, total and service counter
- No tool replacement with change of cross-section range
- Simple changing of machine parameters for the entire crimping range

Crimpfix E



Technical data

Specification	
Stripping range	
Crimping length	
Length of wire-end ferrule	
Pulse time	
Cross-section range	
Electrical connection	
Tool data	
Length / Width / Height	mm
Weight	kg
Note	

CRIMPFIX E	
Stripping range	0.5 - 2.5 mm ²
Crimping length	8 mm
Length of wire-end ferrule	14 mm
Pulse time	approx. 1.8 sec
Cross-section range	0.5...2.5 mm ²
Electrical connection	100 - 240 V AC / 50 - 60 Hz
Length / Width / Height	349 / 288 / 230 mm
Weight	16 kg
Note	

Ordering data

Version
Note

Type	Qty.	Order No.
CRIMPFIX E	1	2439140000
Note		



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

EPG 60 battery-powered hydraulic crimping tool

- Electrohydraulic battery-powered crimping tool
- Processing of cable lugs and connectors up to 300 mm²
- Quick-closure head rotatable up to 270°
- Automatic pressure limiting and monitoring with pressure sensor
- Motor switch-off and automatic return after completed crimping process
- Electronic control and monitoring of the crimping process
- Integrated service management and software updates via USB
- Multi-function electronics with sleep mode, maintenance display and battery monitoring
- Li-Ion battery with charge state display

EPG 60



Technical data

Description of contact	
Pressing force	kN
Tool data	
Length x width x height / Weight	mm/GRM
Note	

EPG 60	
60	
385 / 125 / 80 / 3280	
Weight incl. battery	

Areas of application	Ø mm ²
WM crimping inserts for EURO series	6 - 300
Hexagonal crimping inserts (DIN 46235) + connectors (DIN 46267)	6 - 300 (K5-K30)
Indent crimping inserts DIN 46234	6 - 120

Ordering data

Version	
Note	

Type	Qty.	Order No.
EPG 60	1	2453810000
Note		

Accessories

Replacement battery Li-Ion 18 V, 1.5 Ah	
Charger	
Note	

Type	Qty.	Order No.
AKKU EPG	1	1500840000
LADEGERAET EPG	1	1509370000
Note		

WM-shape crimp inserts

- For crimping cable lugs and connectors of the Euro series

Cu mm ²	Crimping width	Type	Order No.
6	7 mm	ES EPG 60 WM 6	2469380000
10	7 mm	ES EPG 60 WM 10	2469540000
16	7 mm	ES EPG 60 WM 16	2469550000
25	12 mm	ES EPG 60 WM 25	2469560000
35	5 mm	ES EPG 60 WM 35	2469570000
50	5 mm	ES EPG 60 WM 50	2469580000
70	5 mm	ES EPG 60 WM 70	2469590000
95	5 mm	ES EPG 60 WM 95	2469600000
120	5 mm	ES EPG 60 WM 120	2469610000
150	5 mm	ES EPG 60 WM 150	2469620000
185	5 mm	ES EPG 60 WM 185	2469630000
240	5 mm	ES EPG 60 WM 240	2469640000
300	5 mm	ES EPG 60 WM 300	2469650000
Note			

**Hexagonal crimp inserts**

- For crimping compression cable lugs DIN 46235
- CU crimp connectors DIN 46267 Part 1
- Al and Al/Cu compression cable lugs and connectors

Ident. no.	Cu mm ²	Al mm ²	Crimping width	Type	Order No.
5	6		7 mm	ES EPG 60 HEX 6	2505150000
6	10		7 mm	ES EPG 60 HEX 10	2505160000
8	16		5 mm	ES EPG 60 HEX 16	2505170000
10	25	10	5 mm	ES EPG 60 HEX 25	2505180000
12	35	16+25	5 mm	ES EPG 60 HEX 35	2505190000
14	50	35	5 mm	ES EPG 60 HEX 50	2505200000
16	70	50	5 mm	ES EPG 60 HEX 70	2505210000
18	95	70	5 mm	ES EPG 60 HEX 95	2505220000
20	120		5 mm	ES EPG 60 HEX 120	2505230000
22	150	95+120	5 mm	ES EPG 60 HEX 150	2505240000
25	185	150	5 mm	ES EPG 60 HEX 185	2505250000
28	240	185	5 mm	ES EPG 60 HEX 240	2505260000
32	300	240	5 mm	ES EPG 60 HEX 300	2505270000
Note					

**Indent crimp inserts**

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

Cu mm ²	Crimping width	Type	Order No.
6	5 mm	ES EPG 60 DIN 6	2505280000
10	7 mm	ES EPG 60 DIN 10	2505290000
16	10 mm	ES EPG 60 DIN 16	2505300000
25	10 mm	ES EPG 60 DIN 25	2505310000
35	10 mm	ES EPG 60 DIN 35	2505320000
50	12 mm	ES EPG 60 DIN 50	2505330000
70	12 mm	ES EPG 60 DIN 70	2505340000
95	16 mm	ES EPG 60 DIN 95	2505350000
120	16 mm	ES EPG 60 DIN 120	2505360000
Note			



EPG Cut 40 battery-powered hydraulic crimping tool

- Electrohydraulic battery-powered cutting tool
- Cutting of CU/AL conductors up to Ø 40 mm
- Quick closure head rotatable up to 360°
- Automatic pressure limiting and monitoring with pressure sensor
- Motor switch-off and automatic return after completed cutting process
- Electronic control and monitoring of the cutting process
- Integrated service management and software updates via USB
- Multi-function electronics with sleep mode, maintenance display and battery monitoring
- Li-Ion battery with charge state display

EPG CUT 40



Technical data

Description of contact	
Punching force	
Tool data	
Length x width x height / Weight	mm/GRM
Note	

EPG CUT 40		
30 kN		
440 / 124 / 81 / 2800		
Weight incl. battery		

Ordering data

Version	
Note	

Type	Qty.	Order No.
EPG CUT 40	1	2453830000

Accessories

Replacement battery Li-Ion 18 V, 1.5 Ah	
Charger	
Note	

Type	Qty.	Order No.
AKKU EPG	1	1500840000
LADEGERAET EPG	1	1509370000

Cutting ranges	Ø mm ²
CU to max.	Ø 40 mm
AL to max.	Ø 40 mm
Multi-wire cutting range	
CU to max.	1x 240 mm or 4 x 50 mm
AL to max.	1x 500 mm or 4x 70 mm



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

2-pole voltage testers

VT CTB

2-pole voltage tester for cars



- Test probe
- Pin with sliding mechanism
- Cable length 130 cm
- Polarity detection

VT

2-pole voltage tester



- LED display for voltage and polarity
- Works without batteries
- Impact-resistant housing
- One-handed operation for sockets

Technical data

Nominal voltage
Display
Frequency range, min.
Measuring range category
Protection degree
Approvals
Weight
Note

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

VT
12 V AC/DC...690 V AC/DC
LED
0...65 Hz
CAT III 600 V, CAT IV 300 V
IP64
EN/ IEC 61010, EN 61243-3 2010
115 g
Note

Ordering data

Version
Note

Type	Qty.	Order No.
VT CTB	1	9918970000
Note		

Type	Qty.	Order No.
VT	1	9918950000
Note		

Accessories

Note

Type	Qty.	Order No.
SKAI TASCHÉ	1	9201520000
BATTERIE 1,5V MICRO	2	9201310000
Note		

Type	Qty.	Order No.
SKAI TASCHÉ	1	9201520000
BATTERIE 1,5V MICRO	2	9201310000
Note		

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

Non-contact voltage testers

VT CL

Non-contact voltage tester



- Overvoltage category CAT IV 1000V
- Visible and acoustic voltage display
- Water-resistant and robust housing

VT LCL

Non-contact voltage tester



- Overvoltage category CAT IV 1000V
- Visible and acoustic voltage display
- Integrated flashlight
- Two selectable voltage levels / sensitivity ranges
- Including battery monitoring

Technical data

Nominal voltage
Display
Protection degree
Measuring range category
Battery type
Approvals
Weight
Note

VT CL
50 V AC...1000 V AC
Visual & acoustic
IP65
CAT IV 1000 V
1.5 V type AAA battery
DIN EN 61010-1, DIN EN 61326
60 g

VT LCL
12 V AC...1000 V AC
Visual & acoustic
IP65
CAT IV 1000 V
1.5 V type AAA battery
DIN EN 61010-1, DIN EN 61326
60 g

Ordering data

Version
Note

Type	Qty.	Order No.
VT CL	1	2436660000

Type	Qty.	Order No.
VT LCL	1	2436670000

Accessories

Note

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Continuity testers and non-contact magnetic field testers

VT M

Non-contact magnetic field tester



- Integrated flashlight
- Magnetic field displayed with a red LED
- Water-resistant and robust housing
- Including battery monitoring

VT CTL

Continuity tester



- Flashlight function with continuous light
- Visual and acoustic feed-through
- Resistant to interference voltage

Technical data

Display
Protection degree
Battery type
Approvals
Weight
Note

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

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

Ordering data

Version
Note

Type	Qty.	Order No.
VT M	1	2436680000
Note		

Type	Qty.	Order No.
VT CTL	1	2436690000
Note		

Accessories

Note

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000
Note		

Type	Qty.	Order No.
BATTERIE 1,5V MICRO	2	9201310000
Note		

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure



Infrastructure



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

HS... 25,4 mm

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55...135 °C	90 °C	2448880000	RIBBON MM-HS 60/300 SW

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437470000	HS 0.8-2.4/25 MM W	○ White	25.4 mm	0.8 - 2.4 mm	2000
2437480000	HS 0.8-2.4/25 MM Y	● Yellow	25.4 mm	0.8 - 2.4 mm	2000
2437510000	HS 1.0-3.2/25 MM W	○ White	25.4 mm	1 - 3.2 mm	2000
2437520000	HS 1.0-3.2/25 MM Y	● Yellow	25.4 mm	1 - 3.2 mm	2000
2437550000	HS 1.6-4.8/25 MM W	○ White	25.4 mm	1.6 - 4.8 mm	2000
2437560000	HS 1.6-4.8/25 MM Y	● Yellow	25.4 mm	1.6 - 4.8 mm	2000
2437630000	HS 2.1-6.4/25 MM W	○ White	25.4 mm	2.1 - 6.4 mm	2000
2437640000	HS 2.1-6.4/25 MM Y	● Yellow	25.4 mm	2.1 - 6.4 mm	2000
2437670000	HS 3.2-9.5/25 MM W	○ White	25.4 mm	3.2 - 9.5 mm	1000
2437680000	HS 3.2-9.5/25 MM Y	● Yellow	25.4 mm	3.2 - 9.5 mm	1000
2437710000	HS 4.2-12.7/25 MM W	○ White	25.4 mm	4.2 - 12.7 mm	1000
2437720000	HS 4.2-12.7/25 MM Y	● Yellow	25.4 mm	4.2 - 12.7 mm	1000
2437750000	HS 6.4-19.1/25 MM W	○ White	25.4 mm	6.4 - 19.1 mm	800
2437760000	HS 6.4-19.1/25 MM Y	● Yellow	25.4 mm	6.4 - 19.1 mm	800
2437790000	HS 8.5-25.4/25 MM W	○ White	25.4 mm	8.5 - 25.4 mm	400
2437800000	HS 8.5-25.4/25 MM Y	● Yellow	25.4 mm	8.5 - 25.4 mm	400
2437590000	HS 12.7-38.1/25 MM W	○ White	25.4 mm	12.7 - 38.1 mm	200
2437600000	HS 12.7-38.1/25 MM Y	● Yellow	25.4 mm	12.7 - 38.1 mm	200



HS... 50,8 mm

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55...135 °C	90 °C	2448880000	RIBBON MM-HS 60/300 SW

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437490000	HS 0.8-2.4/50 MM W	○ White	50.8 mm	0.8 - 2.4 mm	1000
2437500000	HS 0.8-2.4/50 MM Y	● Yellow	50.8 mm	0.8 - 2.4 mm	1000
2437530000	HS 1.0-3.2/50 MM W	○ White	50.8 mm	1 - 3.2 mm	1000
2437540000	HS 1.0-3.2/50 MM Y	● Yellow	50.8 mm	1 - 3.2 mm	1000
2437570000	HS 1.6-4.8/50 MM W	○ White	50.8 mm	1.6 - 4.8 mm	1000
2437580000	HS 1.6-4.8/50 MM Y	● Yellow	50.8 mm	1.6 - 4.8 mm	1000
2437650000	HS 2.1-6.4/50 MM W	○ White	50.8 mm	2.1 - 6.4 mm	1000
2437660000	HS 2.1-6.4/50 MM Y	● Yellow	50.8 mm	2.1 - 6.4 mm	1000
2437690000	HS 3.2-9.5/50 MM W	○ White	50.8 mm	3.2 - 9.5 mm	500
2437700000	HS 3.2-9.5/50 MM Y	● Yellow	50.8 mm	3.2 - 9.5 mm	500
2437730000	HS 4.2-12.7/50 MM W	○ White	50.8 mm	4.2 - 12.7 mm	500
2437740000	HS 4.2-12.7/50 MM Y	● Yellow	50.8 mm	4.2 - 12.7 mm	500
2437770000	HS 6.4-19.1/50 MM W	○ White	50.8 mm	6.4 - 19.1 mm	400
2437780000	HS 6.4-19.1/50 MM Y	● Yellow	50.8 mm	6.4 - 19.1 mm	400
2437810000	HS 8.5-25.4/50 MM W	○ White	50.8 mm	8.5 - 25.4 mm	200
2437820000	HS 8.5-25.4/50 MM Y	● Yellow	50.8 mm	8.5 - 25.4 mm	200
2437610000	HS 12.7-38.1/50 MM W	○ White	50.8 mm	12.7 - 38.1 mm	100
2437620000	HS 12.7-38.1/50 MM Y	● Yellow	50.8 mm	12.7 - 38.1 mm	100



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

HS-HF 25.4 mm

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	2448880000	RIBBON MM-HS 60/300 SW

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437830000	HS-HF 1.2-2.4/25 MM W	○ White	25.4 mm	1.2 - 2.4 mm	2000
2437840000	HS-HF 1.2-2.4/25 MM Y	● Yellow	25.4 mm	1.2 - 2.4 mm	2000
2437870000	HS-HF 1.6-3.2/25 MM W	○ White	25.4 mm	1.6 - 3.2 mm	2000
2437880000	HS-HF 1.6-3.2/25 MM Y	● Yellow	25.4 mm	1.6 - 3.2 mm	2000
2437990000	HS-HF 2.4-4.8/25 MM W	○ White	25.4 mm	2.4 - 4.8 mm	2000
2438000000	HS-HF 2.4-4.8/25 MM Y	● Yellow	25.4 mm	2.4 - 4.8 mm	2000
2438040000	HS-HF 3.2-6.4/25 MM W	○ White	25.4 mm	3.2 - 6.4 mm	2000
2438050000	HS-HF 3.2-6.4/25 MM Y	● Yellow	25.4 mm	3.2 - 6.4 mm	2000
2438090000	HS-HF 4.8-9.5/25 MM W	○ White	25.4 mm	4.8 - 9.5 mm	1000
2438100000	HS-HF 4.8-9.5/25 MM Y	● Yellow	25.4 mm	4.8 - 9.5 mm	1000
2438140000	HS-HF 6.4-12.7/25 MM W	○ White	25.4 mm	6.4 - 12.7 mm	1000
2438150000	HS-HF 6.4-12.7/25 MM Y	● Yellow	25.4 mm	6.4 - 12.7 mm	1000
2438190000	HS-HF 9.5-19.1/25 MM W	○ White	25.4 mm	9.5 - 19.1 mm	800
2438200000	HS-HF 9.5-19.1/25 MM Y	● Yellow	25.4 mm	9.5 - 19.1 mm	800
2437910000	HS-HF 12.7-25.4/25 MM W	○ White	25.4 mm	12.7 - 25.4 mm	400
2437920000	HS-HF 12.7-25.4/25 MM Y	● Yellow	25.4 mm	12.7 - 25.4 mm	400
2437950000	HS-HF 19.5-38.1/25 MM W	○ White	25.4 mm	19.5 - 38.1 mm	200
2437960000	HS-HF 19.5-38.1/25 MM Y	● Yellow	25.4 mm	19.5 - 38.1 mm	200

HS-HF 50.8 mm

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	2448880000	RIBBON MM-HS 60/300 SW

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
2437850000	HS-HF 1.2-2.4/50 MM W	○ White	50.8 mm	1.2 - 2.4 mm	1000
2437860000	HS-HF 1.2-2.4/50 MM Y	● Yellow	50.8 mm	1.2 - 2.4 mm	1000
2437890000	HS-HF 1.6-3.2/50 MM W	○ White	50.8 mm	1.6 - 3.2 mm	1000
2437900000	HS-HF 1.6-3.2/50 MM Y	● Yellow	50.8 mm	1.6 - 3.2 mm	1000
2438010000	HS-HF 2.4-4.8/50 MM W	○ White	50.8 mm	2.4 - 4.8 mm	1000
2438020000	HS-HF 2.4-4.8/50 MM Y	● Yellow	50.8 mm	2.4 - 4.8 mm	1000
2438060000	HS-HF 3.2-6.4/50 MM W	○ White	50.8 mm	3.2 - 6.4 mm	1000
2438070000	HS-HF 3.2-6.4/50 MM Y	● Yellow	50.8 mm	3.2 - 6.4 mm	1000
2438110000	HS-HF 4.8-9.5/50 MM W	○ White	50.8 mm	4.8 - 9.5 mm	500
2438120000	HS-HF 4.8-9.5/50 MM Y	● Yellow	50.8 mm	4.8 - 9.5 mm	500
2438160000	HS-HF 6.4-12.7/50 MM W	○ White	50.8 mm	6.4 - 12.7 mm	500
2438170000	HS-HF 6.4-12.7/50 MM Y	● Yellow	50.8 mm	6.4 - 12.7 mm	500
2438210000	HS-HF 9.5-19.1/50 MM W	○ White	50.8 mm	9.5 - 19.1 mm	400
2438220000	HS-HF 9.5-19.1/50 MM Y	● Yellow	50.8 mm	9.5 - 19.1 mm	400
2437930000	HS-HF 12.7-25.4/50 MM W	○ White	50.8 mm	12.7 - 25.4 mm	200
2437940000	HS-HF 12.7-25.4/50 MM Y	● Yellow	50.8 mm	12.7 - 25.4 mm	200
2437970000	HS-HF 19.5-38.1/50 MM W	○ White	50.8 mm	19.5 - 38.1 mm	100
2437980000	HS-HF 19.5-38.1/50 MM Y	● Yellow	50.8 mm	19.5 - 38.1 mm	100



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

HSS... Endless 13 meters

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55...135 °C	90 °C	1426210000	RIBBON HSS HF EL 40/300

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1489620000	HSS 0.8-2.4 EL W13M	White	13000 mm	0.8 - 2.4 mm	1
1489530000	HSS 0.8-2.4 EL Y13M	Yellow	13000 mm	0.8 - 2.4 mm	1
1489630000	HSS 1.0-3.2 EL W13M	White	13000 mm	1 - 3.2 mm	1
1489540000	HSS 1.0-3.2 EL Y13M	Yellow	13000 mm	1 - 3.2 mm	1
1489640000	HSS 1.6-4.8 EL W13M	White	13000 mm	1.6 - 4.8 mm	1
1489550000	HSS 1.6-4.8 EL Y13M	Yellow	13000 mm	1.6 - 4.8 mm	1
1489650000	HSS 2.1-6.4 EL W13M	White	13000 mm	2.1 - 6.4 mm	1
1489560000	HSS 2.1-6.4 EL Y13M	Yellow	13000 mm	2.1 - 6.4 mm	1
1489660000	HSS 3.2-9.5 EL W13M	White	13000 mm	3.2 - 9.5 mm	1
1489570000	HSS 3.2-9.5 EL Y13M	Yellow	13000 mm	3.2 - 9.5 mm	1
1489670000	HSS 4.2-12.7 EL W13M	White	13000 mm	4.2 - 12.7 mm	1
1489580000	HSS 4.2-12.7 EL Y13M	Yellow	13000 mm	4.2 - 12.7 mm	1
1489680000	HSS 6.4-19.1 EL W13M	White	13000 mm	6.4 - 19.1 mm	1
1489590000	HSS 6.4-19.1 EL Y13M	Yellow	13000 mm	6.4 - 19.1 mm	1



HSS... Endless 30 meters

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	3:1	-55...135 °C	90 °C	1426210000	RIBBON HSS HF EL 40/300

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1505840000	HSS 0.8-2.4 EL W30M	White	30000 mm	0.8 - 2.4 mm	1
1505760000	HSS 0.8-2.4 EL Y30M	Yellow	30000 mm	0.8 - 2.4 mm	1
1505850000	HSS 1.0-3.2 EL W30M	White	30000 mm	1 - 3.2 mm	1
1505770000	HSS 1.0-3.2 EL Y30M	Yellow	30000 mm	1 - 3.2 mm	1
1505860000	HSS 1.6-4.8 EL W30M	White	30000 mm	1.6 - 4.8 mm	1
1505780000	HSS 1.6-4.8 EL Y30M	Yellow	30000 mm	1.6 - 4.8 mm	1
1505870000	HSS 2.1-6.4 EL W30M	White	30000 mm	2.1 - 6.4 mm	1
1505790000	HSS 2.1-6.4 EL Y30M	Yellow	30000 mm	2.1 - 6.4 mm	1
1505880000	HSS 3.2-9.5 EL W30M	White	30000 mm	3.2 - 9.5 mm	1
1505800000	HSS 3.2-9.5 EL Y30M	Yellow	30000 mm	3.2 - 9.5 mm	1
1505890000	HSS 4.2-12.7 EL W30M	White	30000 mm	4.2 - 12.7 mm	1
1505810000	HSS 4.2-12.7 EL Y30M	Yellow	30000 mm	4.2 - 12.7 mm	1
1505900000	HSS 6.4-19.1 EL W30M	White	30000 mm	6.4 - 19.1 mm	1
1505820000	HSS 6.4-19.1 EL Y30M	Yellow	30000 mm	6.4 - 19.1 mm	1
1505910000	HSS 8.5-25.4 EL W30M	White	30000 mm	8.5 - 25.4 mm	1
1505830000	HSS 8.5-25.4 EL Y30M	Yellow	30000 mm	8.5 - 25.4 mm	1



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

HSS-HF... Halogen-free Endless 13 meters

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	1426210000	RIBBON HSS HF EL 40/300

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1423330000	HSS-HF 1.2-2.4 EL W13M	White	13000 mm	1.2 - 2.4 mm	1
1423220000	HSS-HF 1.2-2.4 EL Y13M	Yellow	13000 mm	1.2 - 2.4 mm	1
1423340000	HSS-HF 1.6-3.2 EL W13M	White	13000 mm	1.6 - 3.2 mm	1
1423230000	HSS-HF 1.6-3.2 EL Y13M	Yellow	13000 mm	1.6 - 3.2 mm	1
1423350000	HSS-HF 2.4-4.8 EL W13M	White	13000 mm	2.4 - 4.8 mm	1
1423240000	HSS-HF 2.4-4.8 EL Y13M	Yellow	13000 mm	2.4 - 4.8 mm	1
1423360000	HSS-HF 3.2-6.4 EL W13M	White	13000 mm	3.2 - 6.4 mm	1
1423250000	HSS-HF 3.2-6.4 EL Y13M	Yellow	13000 mm	3.2 - 6.4 mm	1
1423370000	HSS-HF 4.8-9.5 EL W13M	White	13000 mm	4.8 - 9.5 mm	1
1423260000	HSS-HF 4.8-9.5 EL Y13M	Yellow	13000 mm	4.8 - 9.5 mm	1
1423380000	HSS-HF 6.4-12.7 EL W13M	White	13000 mm	6.4 - 12.7 mm	1
1423270000	HSS-HF 6.4-12.7 EL Y13M	Yellow	13000 mm	6.4 - 12.7 mm	1

HSS-HF... Halogen-free Endless 10 meters

Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	1426210000	RIBBON HSS HF EL 40/300

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1423390000	HSS-HF 9.5-19.1 EL W10M	White	10000 mm	9.5 - 19.1 mm	1
1423280000	HSS-HF 9.5-19.1 EL Y10M	Yellow	10000 mm	9.5 - 19.1 mm	1
1423410000	HSS-HF 12.7-25.4 EL W10M	White	10000 mm	12.7 - 25.4 mm	1
1423290000	HSS-HF 12.7-25.4 EL Y10M	Yellow	10000 mm	12.7 - 25.4 mm	1



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Infrastructure

HSS-HF... Halogen-free Endless 30 meters



Technical data

Material	Rate of shrinkage	Temperature range	recom. Shrinks.	Order No.	Type
Polyolefine	2:1	-55...105 °C	90 °C	1426210000	RIBBON HSS HF EL 40/300

Ordering data

Order No.	Type	Colour	Length	Conductor O.D.	Qty.
1562840000	HSS-HF 1.2-2.4 EL B30M	Blue	30000 mm	1.2 - 2.4 mm	1
1562940000	HSS-HF 1.2-2.4 EL G30M	Green	30000 mm	1.2 - 2.4 mm	1
1562740000	HSS-HF 1.2-2.4 EL R30M	Red	30000 mm	1.2 - 2.4 mm	1
1513240000	HSS-HF 1.2-2.4 EL W30M	White	30000 mm	1.2 - 2.4 mm	1
1513140000	HSS-HF 1.2-2.4 EL Y30M	Yellow	30000 mm	1.2 - 2.4 mm	1
1562850000	HSS-HF 1.6-3.2 EL B30M	Blue	30000 mm	1.6 - 3.2 mm	1
1562950000	HSS-HF 1.6-3.2 EL G30M	Green	30000 mm	1.6 - 3.2 mm	1
1562750000	HSS-HF 1.6-3.2 EL R30M	Red	30000 mm	1.6 - 3.2 mm	1
1513250000	HSS-HF 1.6-3.2 EL W30M	White	30000 mm	1.6 - 3.2 mm	1
1513150000	HSS-HF 1.6-3.2 EL Y30M	Yellow	30000 mm	1.6 - 3.2 mm	1
1562870000	HSS-HF 2.4-4.8 EL B30M	Blue	30000 mm	2.4 - 4.8 mm	1
1562970000	HSS-HF 2.4-4.8 EL G30M	Green	30000 mm	2.4 - 4.8 mm	1
1562770000	HSS-HF 2.4-4.8 EL R30M	Red	30000 mm	2.4 - 4.8 mm	1
1513270000	HSS-HF 2.4-4.8 EL W30M	White	30000 mm	2.4 - 4.8 mm	1
1513170000	HSS-HF 2.4-4.8 EL Y30M	Yellow	30000 mm	2.4 - 4.8 mm	1
1562880000	HSS-HF 3.2-6.4 EL B30M	Blue	30000 mm	3.2 - 6.4 mm	1
1562980000	HSS-HF 3.2-6.4 EL G30M	Green	30000 mm	3.2 - 6.4 mm	1
1562780000	HSS-HF 3.2-6.4 EL R30M	Red	30000 mm	3.2 - 6.4 mm	1
1513280000	HSS-HF 3.2-6.4 EL W30M	White	30000 mm	3.2 - 6.4 mm	1
1513180000	HSS-HF 3.2-6.4 EL Y30M	Yellow	30000 mm	3.2 - 6.4 mm	1
1562890000	HSS-HF 4.8-9.5 EL B 30M	Blue	30000 mm	4.8 - 9.5 mm	1
1562990000	HSS-HF 4.8-9.5 EL G 30M	Green	30000 mm	4.8 - 9.5 mm	1
1562790000	HSS-HF 4.8-9.5 EL R 30M	Red	30000 mm	4.8 - 9.5 mm	1
1513290000	HSS-HF 4.8-9.5 EL W30M	White	30000 mm	4.8 - 9.5 mm	1
1513190000	HSS-HF 4.8-9.5 EL Y30M	Yellow	30000 mm	4.8 - 9.5 mm	1
1562900000	HSS-HF 6.4-12.7 EL B30M	Blue	30000 mm	6.4 - 12.7 mm	1
1563020000	HSS-HF 6.4-12.7 EL G30M	Green	30000 mm	6.4 - 12.7 mm	1
1562800000	HSS-HF 6.4-12.7 EL R30M	Red	30000 mm	6.4 - 12.7 mm	1
1513300000	HSS-HF 6.4-12.7 EL W30M	White	30000 mm	6.4 - 12.7 mm	1
1513200000	HSS-HF 6.4-12.7 EL Y30M	Yellow	30000 mm	6.4 - 12.7 mm	1
1562920000	HSS-HF 9.5-19.1 EL B30M	Blue	30000 mm	9.5 - 19.1 mm	1
1563030000	HSS-HF 9.5-19.1 EL G30M	Green	30000 mm	9.5 - 19.1 mm	1
1562820000	HSS-HF 9.5-19.1 EL R30M	Red	30000 mm	9.5 - 19.1 mm	1
1513320000	HSS-HF 9.5-19.1 EL W30M	White	30000 mm	9.5 - 19.1 mm	1
1513220000	HSS-HF 9.5-19.1 EL Y30M	Yellow	30000 mm	9.5 - 19.1 mm	1
1562930000	HSS-HF 12.7-25.4 EL B30M	Blue	30000 mm	12.7 - 25.4 mm	1
1563040000	HSS-HF 12.7-25.4 EL G30M	Green	30000 mm	12.7 - 25.4 mm	1
1562830000	HSS-HF 12.7-25.4 EL R30M	Red	30000 mm	12.7 - 25.4 mm	1
1513330000	HSS-HF 12.7-25.4 EL W30M	White	30000 mm	12.7 - 25.4 mm	1
1513230000	HSS-HF 12.7-25.4 EL Y30M	Yellow	30000 mm	12.7 - 25.4 mm	1

Technical data

Machinery

Process

Energy

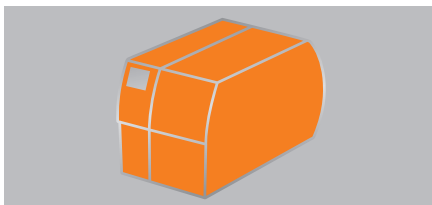
Transportation

Device
Manufacturers

Infrastructure

Thermal transfer printer

THM Plus M



Technical data

EAN	4050118462951
Length	446 mm
Width	242 mm
Height	274 mm
Net weight	9 Kg
Printing method	Thermotransfer
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
Printing speed	125 mm/s
Print quality	300
Marker type	Label reel, Shrink sleeves
Interface	LAN, USB
Supply voltage	100...240 V AC
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
THM PLUS M	1	2448870000
Note		

Accessories

Printer ribbons		Type	Qty.	Order No.
	Label, wide, black	RIBBON MM 110/360 SW	1	2005070000
	Label, narrow, black	RIBBON MM 80/360 SW	1	2005080000
	Label, narrow, white	RIBBON MM 80/300 WS	1	2005040000
	Shrink sleeve, endless	RIBBON HSS HF EL 40/300	1	1426210000
	Shrink sleeve, assembled	RIBBON MM-HS 60/300 SW	1	2448880000
Note				

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Infrastructure

Benefit from optimum support when using our new products

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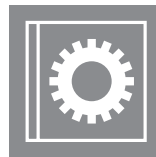
Engineering Support

As a developer, you need simple processes and system-wide tools. We support you in your development environment with comprehensive data, software tools and interfaces, product selection guides and development samples.



Engineering data

Webcode #01219



Engineering software

Webcode #11377



Produkt software

Webcode #01212



Product configurators, product selection guides and samples

Webcode #01214



Whitepaper for device connectivity

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WS 10/5 M PLUS MC NE WS	2003770000	T.25
WS 10/5 M PLUS MC NE WS	2003770000	T.25
WS 10/5 M PLUS MC NE WS	2003770000	T.26
WS 10/5 M PLUS MC NE WS	2003770000	T.26
WS 10/5 M PLUS MC NE WS	2003770000	T.27
WS 10/5 M PLUS MC NE WS	2003770000	T.27
WS 10/5 M PLUS MC NE WS	2003770000	T.29
WS 10/5 M PLUS MC NE WS	2003770000	T.29
WS 10/5 M PLUS MC NE WS	2003770000	T.30
WS 10/5 M PLUS MC NE WS	2003770000	T.30
WS 10/5 M PLUS MC NE WS	2003770000	T.31
WS 10/5 M PLUS MC NE WS	2003770000	T.32
WS 10/5 M PLUS MC NE WS	2003770000	T.44
WS 10/5 M PLUS MC NE WS	2003770000	T.44
WS 10/5 M PLUS MC NE WS	2003770000	T.53
WS 10/5 M PLUS MC NE WS	2003770000	T.55
WS 10/6 M PLUS MC NE WS	2003780000	T.8
WS 10/6 M PLUS MC NE WS	2003780000	T.9
WS 10/6 M PLUS MC NE WS	2003780000	T.9
WS 10/6 M PLUS MC NE WS	2003780000	T.19
WS 10/6 M PLUS MC NE WS	2003780000	T.19
WS 10/6 M PLUS MC NE WS	2003780000	T.26
WS 10/6 M PLUS MC NE WS	2003780000	T.26
WS 10/6 M PLUS MC NE WS	2003780000	T.57
WS 10/6 M PLUS MC NE WS	2003780000	T.58
WS 10/6 M PLUS MC NE WS	2003780000	T.61
WS 10/6 M PLUS MC NE WS	1905950000	T.10
WS 10/8 PLUS MC NE WS	1905950000	T.20
WS 10/8 PLUS MC NE WS	1905950000	T.21
WS 10/8 PLUS MC NE WS	1905950000	T.48
WS 10/8 PLUS MC NE WS	1905950000	T.48
WS 10/8 PLUS MC NE WS		

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ZEW 35	9540000000	T.28	ZDV 1.5N/20 BL	1985700000	T.34	ZDV 2.5N/2 BL	1527740000	T.52	ZDV 4N/2 RD	2460450000	T.73
ZEW 35	9540000000	T.28	ZDV 1.5N/20 RD	1985810000	T.34	ZDV 2.5N/2 BL	1527740000	T.53	ZDV 4N/2 RD	2460450000	T.80
ZEW 35	9540000000	T.29	ZDV 1.5N/3	1985480000	T.34	ZDV 2.5N/2 BL	1527740000	T.54	ZDV 4N/2 RD	2460450000	T.81
ZEW 35	9540000000	T.29	ZDV 1.5N/3 BL	1985560000	T.34	ZDV 2.5N/2 BL	1527740000	T.54	ZDV 4N/2 RD	2460450000	T.82
ZEW 35	9540000000	T.46	ZDV 1.5N/3 RD	1985670000	T.34	ZDV 2.5N/2 BL	1527740000	T.55	ZDV 4N/2 RD	2460450000	T.83
ZEW 35	9540000000	T.46	ZDV 1.5N/4	1985490000	T.34	ZDV 2.5N/2 RD	2108470000	T.34	ZDV 4N/3	1527940000	T.34
ZEW 35	9540000000	T.47	ZDV 1.5N/4 BL	1985570000	T.34	ZDV 2.5N/2 RD	2108470000	T.52	ZDV 4N/3	1527940000	T.83
ZEW 35	9540000000	T.47	ZDV 1.5N/4 RD	1985690000	T.34	ZDV 2.5N/2 RD	2108470000	T.53	ZDV 4N/3 BL	1528080000	T.34
ZEW 35	9540000000	T.47	ZDV 1.5N/5	1985500000	T.34	ZDV 2.5N/2 RD	2108470000	T.54	ZDV 4N/3 BL	1528080000	T.83
ZEW 35	9540000000	T.61	ZDV 1.5N/5 BL	1985590000	T.34	ZDV 2.5N/2 RD	2108470000	T.54	ZDV 4N/3 RD	2460810000	T.34
ZEW 35/2	8630740000	T.12	ZDV 1.5N/5 RD	1985710000	T.34	ZDV 2.5N/2 RD	2108470000	T.55	ZDV 4N/3 RD	2460810000	T.83
ZEW 35/2	8630740000	T.12	ZDV 1.5N/50	1985620000	T.34	ZDV 2.5N/20	1527720000	T.34	ZDV 4N/4	1527970000	T.34
ZEW 35/2	8630740000	T.13	ZDV 1.5N/50 BL	1985720000	T.34	ZDV 2.5N/20 BL	1527890000	T.34	ZDV 4N/4	1527970000	T.83
ZEW 35/2	8630740000	T.13	ZDV 1.5N/50 RD	1985820000	T.34	ZDV 2.5N/20 RD	2108920000	T.34	ZDV 4N/4 BL	1528120000	T.34
ZEW 35/2	8630740000	T.13	ZDV 1.5N/6	1985510000	T.34	ZDV 2.5N/3	1527570000	T.34	ZDV 4N/4 BL	1528120000	T.83
ZEW 35/2	8630740000	T.14	ZDV 1.5N/6 BL	1985610000	T.34	ZDV 2.5N/3 BL	1527770000	T.34	ZDV 4N/4 RD	2460800000	T.34
ZEW 35/2	8630740000	T.14	ZDV 1.5N/6 RD	1985730000	T.34	ZDV 2.5N/3 RD	2108690000	T.34	ZDV 4N/4 RD	2460800000	T.83
ZEW 35/2	8630740000	T.15	ZDV 1.5N/7	1985520000	T.34	ZDV 2.5N/4	1527590000	T.34	ZDV 4N/5	1527980000	T.34
ZEW 35/2	8630740000	T.15	ZDV 1.5N/7 BL	1985630000	T.34	ZDV 2.5N/4 BL	1527780000	T.34	ZDV 4N/5	1527980000	T.83
ZEW 35/2	8630740000	T.21	ZDV 1.5N/7 RD	1985750000	T.34	ZDV 2.5N/4 RD	2108700000	T.34	ZDV 4N/5 BL	1528140000	T.34
ZEW 35/2	8630740000	T.21	ZDV 1.5N/8	1985540000	T.34	ZDV 2.5N/5	1527620000	T.34	ZDV 4N/5 BL	1528140000	T.83
ZEW 35/2	8630740000	T.29	ZDV 1.5N/8 BL	1985640000	T.34	ZDV 2.5N/5 BL	1527790000	T.34	ZDV 4N/5 RD	2460790000	T.34
ZEW 35/2	8630740000	T.30	ZDV 1.5N/8 RD	1985770000	T.34	ZDV 2.5N/5 RD	2108710000	T.34	ZDV 4N/5 RD	2460790000	T.83
ZEW 35/2	8630740000	T.30	ZDV 1.5N/9	1985560000	T.34	ZDV 2.5N/50	1527730000	T.34	ZDV 4N/50	1528130000	T.34
ZEW 35/2	8630740000	T.31	ZDV 1.5N/9 BL	1985660000	T.34	ZDV 2.5N/50 BL	1527920000	T.34	ZDV 4N/50	1528130000	T.71
ZEW 35/2	8630740000	T.44	ZDV 1.5N/9 RD	1985790000	T.34	ZDV 2.5N/50 RD	2109000000	T.34	ZDV 4N/50	1528130000	T.72
ZEW 35/2	8630740000	T.44	ZDV 2.5N/10	1527690000	T.7	ZDV 2.5N/6	1527630000	T.34	ZDV 4N/50	1528130000	T.73
ZEW 35/2	8630740000	T.48	ZDV 2.5N/10	1527690000	T.7	ZDV 2.5N/6 BL	1527820000	T.34	ZDV 4N/50	1528130000	T.80
ZEW 35/2	8630740000	T.48	ZDV 2.5N/10	1527690000	T.8	ZDV 2.5N/6 RD	2108720000	T.34	ZDV 4N/50	1528130000	T.81
ZEW 35/2	8630740000	T.49	ZDV 2.5N/10	1527690000	T.11	ZDV 2.5N/7	1527640000	T.34	ZDV 4N/50	1528130000	T.82
ZEW 35/2	8630740000	T.50	ZDV 2.5N/10	1527690000	T.12	ZDV 2.5N/7 BL	1527830000	T.34	ZDV 4N/50	1528130000	T.83
ZEW 35/2	8630740000	T.50	ZDV 2.5N/10	1527690000	T.12	ZDV 2.5N/7 RD	2108810000	T.34	ZDV 4N/50 BL	1528240000	T.34
ZEW 35/2	8630740000	T.51	ZDV 2.5N/10	1527690000	T.13	ZDV 2.5N/8	1527670000	T.34	ZDV 4N/50 BL	1528240000	T.71
ZEW 35/2	8630740000	T.52	ZDV 2.5N/10	1527690000	T.13	ZDV 2.5N/8 BL	1527840000	T.34	ZDV 4N/50 BL	1528240000	T.72
ZEW 35/2	8630740000	T.52	ZDV 2.5N/10	1527690000	T.13	ZDV 2.5N/8 RD	2108870000	T.34	ZDV 4N/50 BL	1528240000	T.73
ZEW 35/2	8630740000	T.53	ZDV 2.5N/10	1527690000	T.14	ZDV 2.5N/9	1527680000	T.34	ZDV 4N/50 BL	1528240000	T.80
ZEW 35/2	8630740000	T.54	ZDV 2.5N/10	1527690000	T.14	ZDV 2.5N/9 BL	1527870000	T.34	ZDV 4N/50 BL	1528240000	T.81
ZEW 35/2	8630740000	T.54	ZDV 2.5N/10	1527690000	T.15	ZDV 2.5N/9 RD	2108900000	T.34	ZDV 4N/50 BL	1528240000	T.82
ZEW 35/2	8630740000	T.55	ZDV 2.5N/10	1527690000	T.22	ZDV 4N/10	1528090000	T.8	ZDV 4N/50 BL	1528240000	T.83
ZEW 35/2	8630740000	T.56	ZDV 2.5N/10	1527690000	T.23	ZDV 4N/10	1528090000	T.9	ZDV 4N/50 RD	2460730000	T.71
ZEW 35/2	8630740000	T.56	ZDV 2.5N/10	1527690000	T.23	ZDV 4N/10	1528090000	T.9	ZDV 4N/50 RD	2460730000	T.72
ZEW 35/2	8630740000	T.57	ZDV 2.5N/10	1527690000	T.24	ZDV 4N/10	1528090000	T.22	ZDV 4N/50 RD	2460730000	T.73
ZEW 35/2	8630740000	T.58	ZDV 2.5N/10	1527690000	T.25	ZDV 4N/10	1528090000	T.26	ZDV 4N/50 RD	2460730000	T.80
ZEW 35/2	8630740000	T.60	ZDV 2.5N/10	1527690000	T.25	ZDV 4N/10	1528090000	T.34	ZDV 4N/50 RD	2460730000	T.81
ZEW 35/2	8630740000	T.60	ZDV 2.5N/10	1527690000	T.25	ZDV 4N/10	1528090000	T.83	ZDV 4N/50 RD	2460730000	T.82
ZEW 35/2	8630740000	T.60	ZDV 2.5N/10	1527690000	T.26	ZDV 4N/10 BL	1528230000	T.34	ZDV 4N/50 RD	2460730000	T.83
ZDV 1.5N/10	1985580000	T.6	ZDV 2.5N/10	1527690000	T.27	ZDV 4N/10 BL	1528230000	T.56	ZDV 4N/50 RD	2460730000	T.84
ZDV 1.5N/10	1985580000	T.6	ZDV 2.5N/10	1527690000	T.28	ZDV 4N/10 BL	1528230000	T.56	ZDV 4N/6	1527990000	T.83
ZDV 1.5N/10	1985580000	T.7	ZDV 2.5N/10	1527690000	T.29	ZDV 4N/10 BL	1528230000	T.57	ZDV 4N/6 BL	1528170000	T.34
ZDV 1.5N/10	1985580000	T.11	ZDV 2.5N/10	1527690000	T.29	ZDV 4N/10 BL	1528230000	T.58	ZDV 4N/6 BL	1528170000	T.83
ZDV 1.5N/10	1985580000	T.34	ZDV 2.5N/10	1527690000	T.30	ZDV 4N/10 BL	1528230000	T.60	ZDV 4N/6 RD	2460780000	T.34
ZDV 1.5N/10 BL	1985680000	T.34	ZDV 2.5N/10	1527690000	T.30	ZDV 4N/10 BL	1528230000	T.60	ZDV 4N/6 RD	2460780000	T.83
ZDV 1.5N/10 BL	1985680000	T.46	ZDV 2.5N/10	1527690000	T.31	ZDV 4N/10 BL	1528230000	T.61	ZDV 4N/7	1528020000	T.34
ZDV 1.5N/10 BL	1985680000	T.46	ZDV 2.5N/10	1527690000	T.34	ZDV 4N/10 BL	1528230000	T.83	ZDV 4N/7	1528020000	T.83
ZDV 1.5N/10 BL	1985680000	T.47	ZDV 2.5N/10	1527690000	T.44	ZDV 4N/10 RD	2460740000	T.34	ZDV 4N/7 BL	1528180000	T.34
ZDV 1.5N/10 BL	1985680000	T.47	ZDV 2.5N/10 BL	1527880000	T.34	ZDV 4N/10 RD	2460740000	T.56	ZDV 4N/7 BL	1528180000	T.83
ZDV 1.5N/10 BL	1985680000	T.47	ZDV 2.5N/10 BL	1527880000	T.52	ZDV 4N/10 RD	2460740000	T.57	ZDV 4N/7 RD	2460770000	T.34
ZDV 1.5N/10 BL	1985680000	T.48	ZDV 2.5N/10 BL	1527880000	T.52	ZDV 4N/10 RD	2460740000	T.58	ZDV 4N/7 RD	2460770000	T.83
ZDV 1.5N/10 BL	1985680000	T.48	ZDV 2.5N/10 BL	1527880000	T.53	ZDV 4N/10 RD	2460740000	T.60	ZDV 4N/8	1528030000	T.34
ZDV 1.5N/10 BL	1985680000	T.49	ZDV 2.5N/10 BL	1527880000	T.54	ZDV 4N/10 RD	2460740000	T.60	ZDV 4N/8	1528030000	T.83
ZDV 1.5N/10 BL	1985680000	T.50	ZDV 2.5N/10 BL	1527880000	T.54	ZDV 4N/10 RD	2460740000	T.61	ZDV 4N/8 BL	1528190000	T.34
ZDV 1.5N/10 BL	1985680000	T.50	ZDV 2.5N/10 BL	1527880000	T.55	ZDV 4N/10 RD	2460740000	T.83	ZDV 4N/8 BL	1528190000	T.83
ZDV 1.5N/10 BL	1985680000	T.51	ZDV 2.5N/10 RD	2108910000	T.34	ZDV 4N/2	1527930000	T.8	ZDV 4N/8 RD	2460760000	T.34
ZDV 1.5N/10 RD	1985800000	T.34	ZDV 2.5N/10 RD	2108910000	T.52	ZDV 4N/2	1527930000	T.9	ZDV 4N/8 RD	2460760000	T.83
ZDV 1.5N/10 RD	1985800000	T.46	ZDV 2.5N/10 RD	2108910000	T.53	ZDV 4N/2	1527930000	T.9	ZDV 4N/9	1528070000	T.34
ZDV 1.5N/10 RD	1985800000	T.47	ZDV 2.5N/10 RD	2108910000	T.54	ZDV 4N/2	1527930000	T.22	ZDV 4N/9	1528070000	T.83
ZDV 1.5N/10 RD	1985800000	T.47	ZDV 2.5N/10 RD	2108910000	T.54	ZDV 4N/2	1527930000	T.26	ZDV 4N/9 BL	1528220000	T.34
ZDV 1.5N/10 RD	1985800000	T.48	ZDV 2.5N/10 RD	2108910000	T.55	ZDV 4N/2	1527930000	T.34	ZDV 4N/9 BL	1528220000	T.83
ZDV 1.5N/10 RD	1985800000	T.49	ZDV 2.5N/2	1527540000	T.7	ZDV 4N/2	1527930000	T.71	ZDV 4N/9 RD	2460750000	T.34
ZDV 1.5N/10 RD	1985800000	T.50	ZDV 2.5N/2	1527540000	T.7	ZDV 4N/2	1527930000	T.72	ZDV 4N/9 RD	2460750000	T.83
ZDV 1.5N/10 RD	1985800000	T.50	ZDV 2.5N/2	1527540000	T.8	ZDV 4N/2	1527930000	T.73	ZDV 6N/2	1985740000	T.10
ZDV 1.5N/10 RD	1985800000	T.51	ZDV 2.5N/2	1527540000	T.11	ZDV 4N/2	1527930000	T.80	ZDV 6N/2	1985740000	T.10
ZDV 1.5N/2	1985410000	T.6	ZDV 2.5N/2	1527540000	T.12	ZDV 4N/2	1527930000	T.81	ZDV 6N/2 BL	1985740000	T.35
ZDV 1.5N/2	1985410000	T.6	ZDV 2.5N/2	1527540000	T.12	ZDV 4N/2	1527930000	T.82	ZDV 6N/2 BL	1985830000	T.35
ZDV 1.5N/2	1985410000	T.7	ZDV 2.5N/2	1527540000	T.13	ZDV 4N/2	1527930000	T.83	ZDV 6N/3	1985760000	T.35
ZDV 1.5N/2	1985410000	T.11	ZDV 2.5N/2	1527540000	T.13	ZDV 4N/2 BL	1528040000	T.34	ZDV 6N/3 BL	1985840000	T.35
ZDV 1.5N/2	1985410000	T.34	ZDV 2.5N/2	1527540000	T.13	ZDV 4N/2 BL	1528040000	T.56	ZDV 6N/4	1985780000	T.35
ZDV 1.5N/2 BL	1985530000	T.34	ZDV 2.5N/2	1527540000	T.14	ZDV 4N/2 BL	1528040000	T.56	ZDV 6N/4 BL	1985850000	T.35
ZDV 1.5N/2 BL	1985530000	T.46	ZDV 2.5N/2	1527540000	T.14	ZDV 4N/2 BL	1528040000	T.57	ZVQ 2.5/1.5	1720700000	T.15
ZDV 1.5N/2 BL	1985530000	T.46	ZDV 2.5N/2	1527540000	T.15	ZDV 4N/2 BL	1528040000	T.58	ZVQ 2.5/1.5	1720700000	T.15
ZDV 1.5N/2 BL	1985530000	T.47	ZDV 2.5N/2	1527540000	T.22	ZDV 4N/2 BL	1528040000	T.60	ZVQ 2.5/1.5	1720700000	T.44
ZDV 1.5N/2 BL	1985530000	T.47	ZDV 2.5N/2	1527540000	T.23	ZDV 4N/2 BL	1528040000	T.60	ZVQ 2.5/1.5	1720700000	T.44
ZDV 1.5N/2 BL	1985530000	T.47	ZDV 2.5N/2	1527540000	T.23	ZDV 4N/2 BL					

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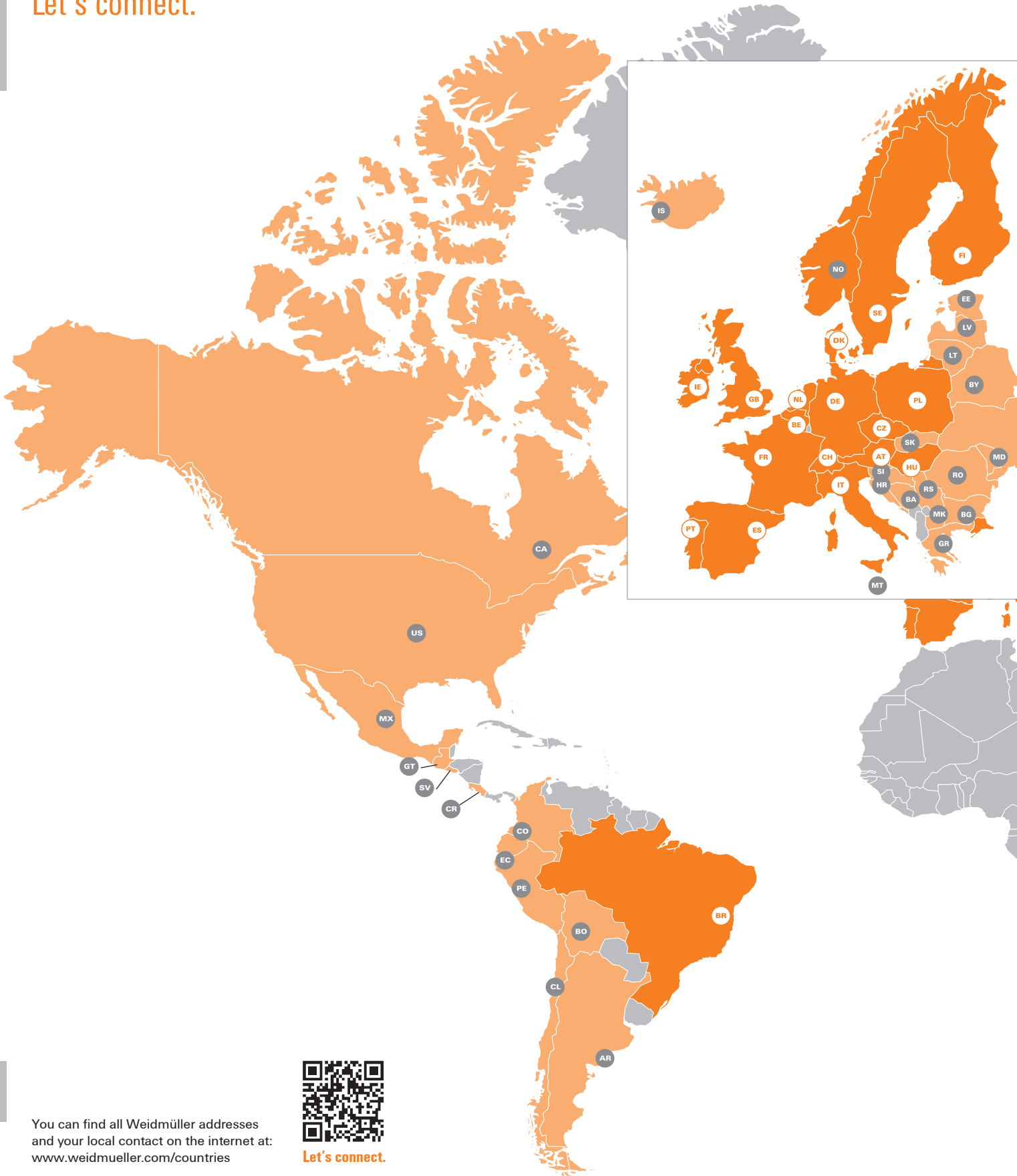
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9540000000	ZEW 35	T.27
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9540000000	ZEW 35	T.61

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