

**Technical
data**

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



Machinery



Process



Energy



Transportation



Device Manufacturers

Weidmüller 



News Highlights



T.8 You automate high-performance machines and production lines
u-remote generates maximum efficiency in your projects



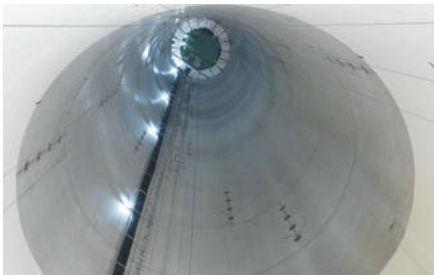
T.58 Powerful power supply for machines and systems
PROmax offers flexible solutions for ambitious automation



T.68 Secure communication with simpler addressing
Our firewall/NAT router efficiently integrates equivalent IP subnetworks



Technical data



T.72

A bright future for the efficiency of your systems

FieldPower® Wind Energy combines intelligent lighting and power supply



T.104

Secure power distribution for wagon-to-wagon coupling

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



T.86

Safely control work processes in hazardous areas on site

With certified enclosure solutions with control and display elements



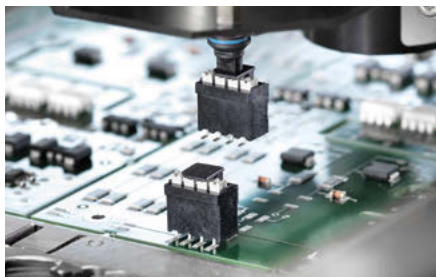
T.110

Access plants and processes more efficiently

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



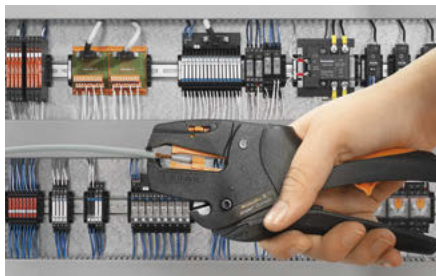
News Highlights



T.126 Your future lies in SMD assembly
OMNIMATE Signal LSF-SMD provides more design freedom



T.138 Resistant marker for harsh environments
MetalliCard extension for more demanding applications



T.136 Easy stripping of hard, complex insulation materials
stripax® Ultimate and AM 16 accelerate your cable processes



News Overview



Electronics and automation



T.142 **Tackle power supply economically**
PROeco bundles all of the basic functions in a compact design



T.152 **Your systems work with intrinsically safe signals**
ACT20X signal converters score with their SIL approval

T.162 **Limit monitoring with simple configuration**
ACT20P identifies even the smallest deviations



T.156 **Intrinsically safe signal conversion in a variety of Ex-zone applications**
ACT20X combines universal input and output loop supply

T.164 **Faster signal wiring taking up less space**
Our interface adapters for TERMSERIES relays reduce wiring times thanks to plug-and-play

T.168 **Robust and compact Ethernet connection directly in the field**
Our unmanaged Fast Ethernet switches cope with harsh environments

T.170 **Your PoE devices pose high energy demands**
Our switches supply all devices - also via Gigabit Ethernet



News Overview

Electronics and automation

Connectivity



T.172 **Flexible connection of serial and ethernet-based Modbus participants**
Our Modbus gateway integrates them all

T.174 **Trouble-free data traffic in complex automation systems**
Our managed switches ensure optimum network performance

T.180 **Energy networks protect at the highest level**
With VARITECTOR PU type I and II for 400/690 V systems

T.184 **Vibration and shock-resistant connections in trains**
Reduce cabling to a minimum with ZDK 2.5-2/4AN

T.186 **Compact distribution for motors in the field**
With our pluggable M12 engine distributor SAI MVV



T.188 **Transmit up to 10 GBits/s with our proven M12 connectors**
Field attachable and without sacrificing quality with M12 X-type



Device Connectivity



T.190 **Safe-to-touch, solid and pluggable**
Our feed-through terminals also support thick housing walls



T.202 **Release and lock with the turn of a lever**
Particularly safe and space saving with OMNIMATE Signal

T.208 **Maximum power reserves for your PCB connection**
With the "HC-upgrade" of our OMNIMATE PCB-connectors in pitch 5.0x

T.194 **Convenient connection of stripped short wires**
OMNIMATE Power with openable "PUSH IN" connection



T.200 **Ergonomic operation and simple front design**
OMNIMATE Power opens up new 270° perspectives



News Overview

Tools



T.230 **Cut cables safely, free from burrs and with little effort**
KT-cutting tools impress with protective handles rated up to 1,000 V

T.232 **High repeatability with each screw connection**
With cordless screwdriver with automatic torque limitation

T.234 **Handle large cable cross-sections easily**
Crimping tools and cable lugs for large cross-sections



T.248 **Simple testing in compliance with standards**
With our 2-pole voltage tester including integral buzzer function

Marking system

T.252 **A wide variety of marking options**
MultiCard extension for even greater consistency



**Experience the best connections of 2014
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.: **1555020000**

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

Let's connect.

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

WIN! Weidmüller Information & News

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

Visit the magazine section of our website with its regularly updated news and stories:

www.weidmueller.com/WIN

PROFIBUS

- 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
- PROFIBUS DP-V1 up to 12 Mbaud

UR20-FBC-PB-DP



Technical data

System data	
Connection	9-pin SUB-D connector
Field bus protocol	PROFIBUS DP-V1
Process data	488 Bytes
Parameter data	244 Bytes
Diagnostic data	244 Bytes
Max. number of I/O modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	12 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I _N in power segment of field bus coupler), typ.	100 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	
Download of GSD-file on www.weidmueller.com	

9-pin SUB-D connector
PROFIBUS DP-V1
488 Bytes
244 Bytes
244 Bytes
64
USB 2.0
12 Mbit/s
48 Mbit/s
24 V DC +20 % / -15 %
24 V DC +20 % / -15 %
10 A
10 A
100 mA
220 g
120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Download of GSD-file on www.weidmueller.com

Ordering data

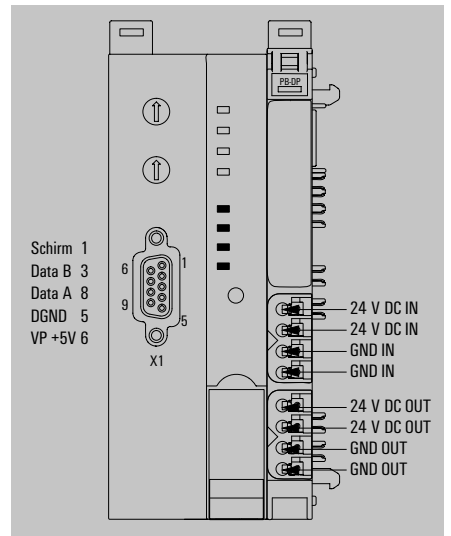
Module variants	
Field bus coupler, PROFIBUS DP-V1	
Note	

Type	Qty.	Order No.
UR20-FBC-PB-DP	1	1334870000
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 SDRVPE	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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334870000-SP	5	1361520000
* ¹⁾ 1 roll = 1000 label = 1 Qty.		
* ²⁾ 1 sheet = 60 label = 1 Qty.		



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334870000



Let's connect.

PROFINET

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- PROFINET IRT/RT capable
- PROFINET diagnosis
- LLDP - Neighborhood detection

UR20-FBC-PN-IRT



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	PROFINET IO (RT/IRT)
Process data	1.024 Bytes
Parameter data	1.485 Bytes
Diagnostic data	1.485 Bytes
Fast startup	yes
Max. number of I/O modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I _{in} in power segment of field bus coupler), typ.	116 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	Download of GSD-file on www.weidmueller.com

Type		
UR20-FBC-PN-IRT	Qty. 1	Order No. 1334880000
A termination kit (UR20-EBK-ACC) is included in the coupler package		

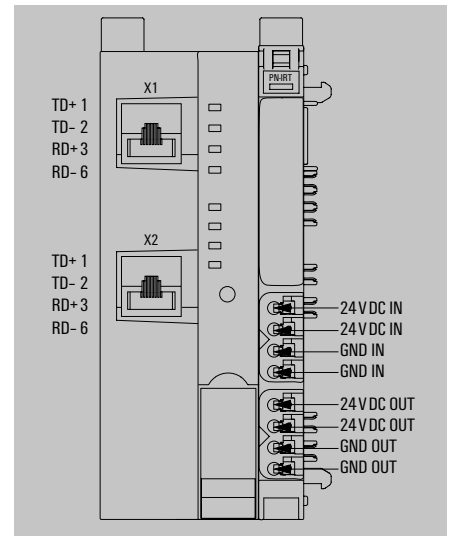
Ordering data

Module variants	
Field bus coupler, PROFINET IRT	
Note	

Accessories

Type		Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334880000-SP	5	1484120000
Note	* ¹⁾ 1 roll = 1000 label = 1 Qty. * ²⁾ 1 sheet = 60 label = 1 Qty.		

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334880000



Technical data
Machinery
Process
Energy
Transportation
Device Manufacturers



Let's connect.

EtherCAT

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- Various EtherCAT services

UR20-FBC-EC



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	EtherCAT
Process data	8 kBytes
Parameter data	1.024 Bytes
Diagnostic data	1.024 Bytes
Max. number of modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I _N in power segment of field bus coupler), typ.	130 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	
Download of ESI-file on www.weidmueller.com	

System data		
Connection	2 x RJ-45	
Field bus protocol	EtherCAT	
Process data	8 kBytes	
Parameter data	1.024 Bytes	
Diagnostic data	1.024 Bytes	
Max. number of modules	64	
Configuration interface	USB 2.0	
Transmission rate of field bus	100 Mbit/s	
Transmission speed of u-remote system bus	48 Mbit/s	
Supply		
Supply voltage for system and inputs	24 V DC +20 % / -15 %	
Supply voltage for outputs	24 V DC +20 % / -15 %	
Feed current for input modules, max.	10 A	
Feed current for output modules, max.	10 A	
Current consumption (I _N in power segment of field bus coupler), typ.	130 mA	
General data		
Weight	220 g	
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm	
Note		
Download of ESI-file on www.weidmueller.com		

Ordering data

Module variants	
Field bus coupler, EtherCAT	
Note	
A termination kit (UR20-EBK-ACC) is included in the coupler package	

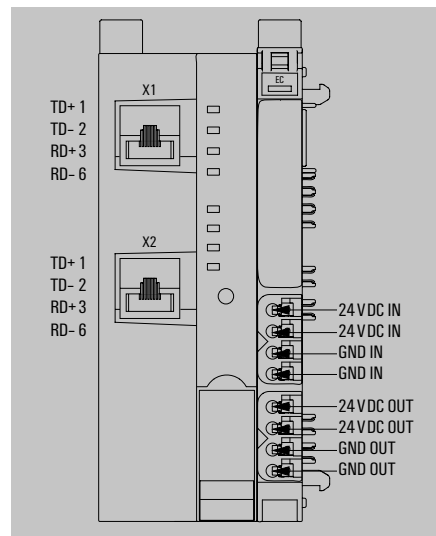
Type	Qty.	Order No.
UR20-FBC-EC	1	1334910000

A termination kit (UR20-EBK-ACC) is included in the coupler package

Accessories

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE * ¹⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts		
UR20-PK-1334910000-SP	5	1484440000
Note		
* ¹⁾ 1 roll = 1000 label = 1 Qty.		
* ²⁾ 1 sheet = 60 label = 1 Qty.		

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE * ¹⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts		
UR20-PK-1334910000-SP	5	1484440000
Note		
* ¹⁾ 1 roll = 1000 label = 1 Qty.		
* ²⁾ 1 sheet = 60 label = 1 Qty.		



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334910000



Let's connect.

Modbus-TCP

- 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



Technical data

System data

Connection	2 x RJ-45
Field bus protocol	Modbus TCP
Process data	8 kBytes
Parameter data	1.024 Bytes
Diagnostic data	1.024 Bytes
Max. number of modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I _N in power segment of field bus coupler), typ.	112 mA

General data

Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Ordering data

Module variants

Field bus coupler, Modbus TCP

Note

Type	Qty.	Order No.
UR20-FBC-MOD-TCP	1	1334930000

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

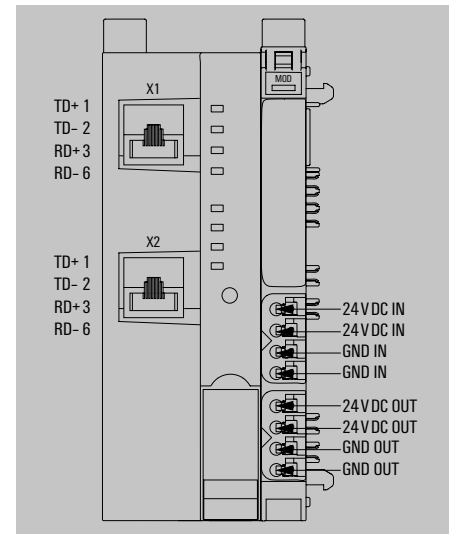
Note

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000

UR20-PK-1334930000-SP

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334930000



Let's connect.

Ethernet/IP

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-EIP



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	Ethernet/IP
Process data	max. 2*494 Byte
Parameter data	max. 64*64 Byte
Diagnostic data	max. 64*47 Byte
Max. number of I/O modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I _N in power segment of field bus coupler), typ.	112 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	
Download of EDS-file on www.weidmueller.com	

System data		
Connection	2 x RJ-45	
Field bus protocol	Ethernet/IP	
Process data	max. 2*494 Byte	
Parameter data	max. 64*64 Byte	
Diagnostic data	max. 64*47 Byte	
Max. number of I/O modules	64	
Configuration interface	USB 2.0	
Transmission rate of field bus	100 Mbit/s	
Transmission speed of u-remote system bus	48 Mbit/s	
Supply		
Supply voltage for system and inputs	24 V DC +20 % / -15 %	
Supply voltage for outputs	24 V DC +20 % / -15 %	
Feed current for input modules, max.	10 A	
Feed current for output modules, max.	10 A	
Current consumption (I _N in power segment of field bus coupler), typ.	112 mA	
General data		
Weight	220 g	
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm	
Note		
Download of EDS-file on www.weidmueller.com		

Ordering data

Module variants	
Field bus coupler, EtherNet/IP	
Note	

Type	Qty.	Order No.
UR20-FBC-EIP	1	1334920000

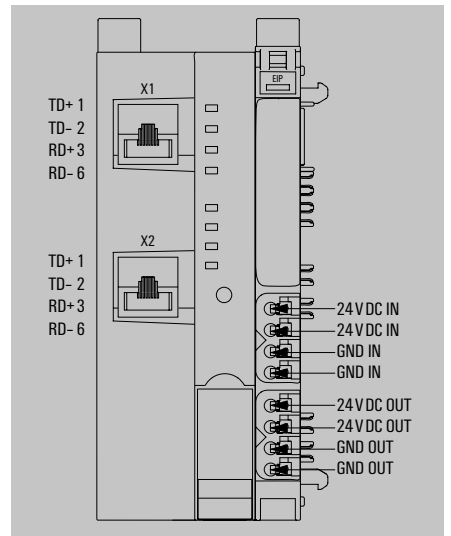
A termination kit (UR20-EBK-ACC) is included in the coupler package

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334880000-SP		
	5	1484120000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

4DI-P

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire, 3-wire, 3-wire+FE connection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-4DI-P

Technical data
System data

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital inputs

Number
Input Type
Input filter
Input voltage, low
Input voltage, high
Sensor supply
Sensor connection
Reverse polarity protection
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

u-remote system bus
48 Mbit/s
yes, DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus
8 mA
< 12 mA + sensor feed

4
Types 1 and 3, IEC 61131-2
adjustable, up to 40 ms

< 5 V
> 11 V
yes
2-wire, 3-wire, 3-wire+FE

yes
yes
no

87 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data
Module variants

Digital input module, 4 channels

Type	Qty.	Order No.
UR20-4DI-P	1	1315170000

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

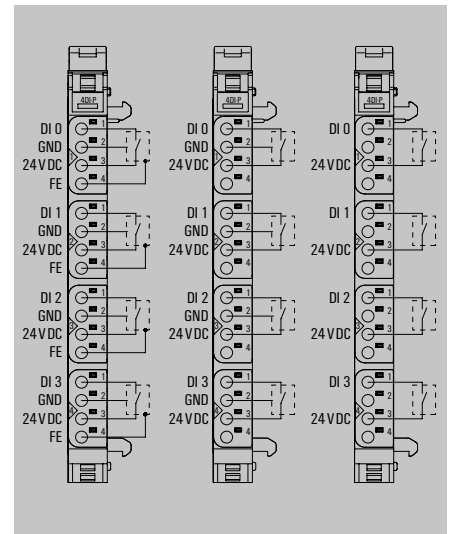
Replacement parts

Electronics module
Basic module
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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315170000-SP	1	1346640000
UR20-BM-SP	5	1350930000
UR20-PK-1315170000-SP	5	1346440000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315170000



Let's connect.

8DI-P-2W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire connection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-2W



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	< 22 mA
Digital inputs	
Number	8
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	no
Sensor connection	2-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Type	Qty.	Order No.
UR20-8DI-P-2W	1	1315180000

Ordering data

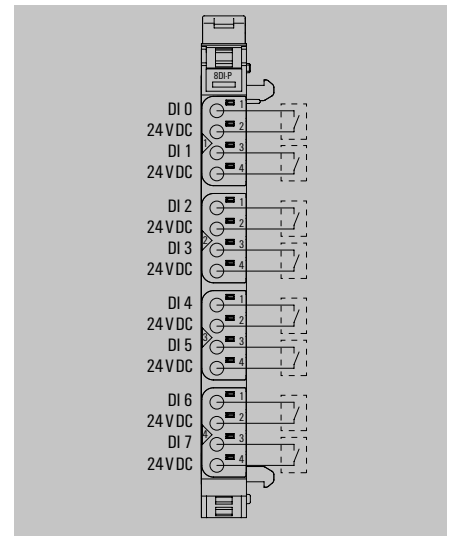
Module variants	
Digital input module, 8 channels, 2-wire	

Accessories

Coding elements	
Coding elements	KDSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1315080000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315180000-SP
Note	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315080000-SP	1	1346650000
UR20-BM-SP	5	1350930000
UR20-PK-1315180000-SP	5	1346430000

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508



Let's connect.

8DI-P-3W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-3W



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	< 22 mA + sensor feed
Digital inputs	
Number	8
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital input module, 8 channels, 3-wire	

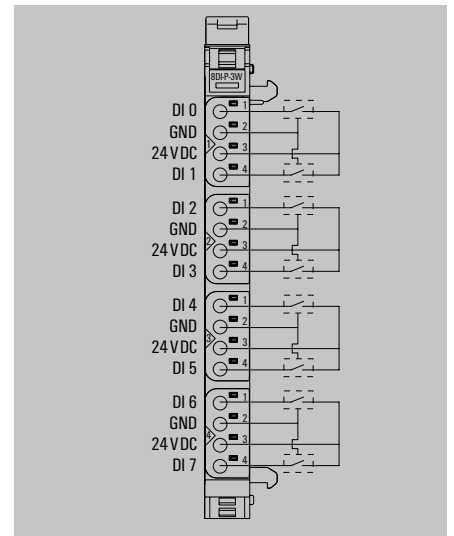
Type	Qty.	Order No.
UR20-8DI-P-3W	1	1394400000

Accessories

Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1394400000-SP	1	1434220000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1394400000-SP	5	1411430000
Note			

Type	Qty.	Order No.
UR20-EM-1394400000-SP	1	1434220000
UR20-BM-SP	5	1350930000
UR20-PK-1394400000-SP	5	1411430000

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1394400000



Let's connect.

Technical data
 Machinery
 Process
 Energy
 Transportation
 Device Manufacturers

8DI-P-3W-HD

- 8 plugs with 4 connections per module
- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	< 30 mA + sensor feed
Digital inputs	
Number	8
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	maximum 150 mA per channel
Sensor connection	2-wire, 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) x 11,5 mm x 76 mm

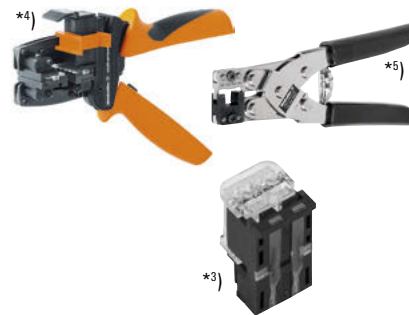
Ordering data

Module variants	
Digital input module, 8 channels, 3-wire, HD plug	

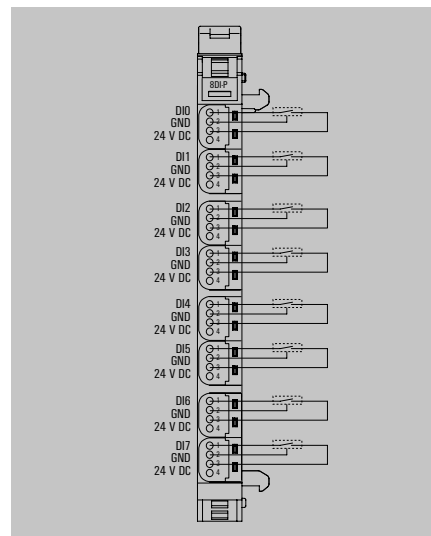
Accessories

Coding elements	KDSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
*3) HD-Plug	UR20-PGO.35	8	1469340000
*4) Stripping tool	multi-stripax 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESD UR20 DIN A4 WS *2)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1315190000-SP	1	1346670000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315190000-SP	5	1518800000
Note			
*1) 1 roll = 1000 label = 1 Qty.			
*2) 1 sheet = 60 label = 1 Qty.			

UR20-8DI-P-3W-HD



Note: Please order connector separately



Type	Qty.	Order No.
UR20-8DI-P-3W-HD	1	1315190000

Type	Qty.	Order No.
UR20-EM-1315190000-SP	1	1346670000
UR20-BM-SP	5	1350930000
UR20-PK-1315190000-SP	5	1518800000

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

16DI-P

- 16 digital inputs
- Positive switching
- Reverse polarity protection
- 1-wire connection
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	< 42 mA
Digital inputs	
Number	16
Input Type	Types 1 and 3, IEC 61131-2
Input filter	3 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	no
Sensor connection	1-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital input module, 16 channels	

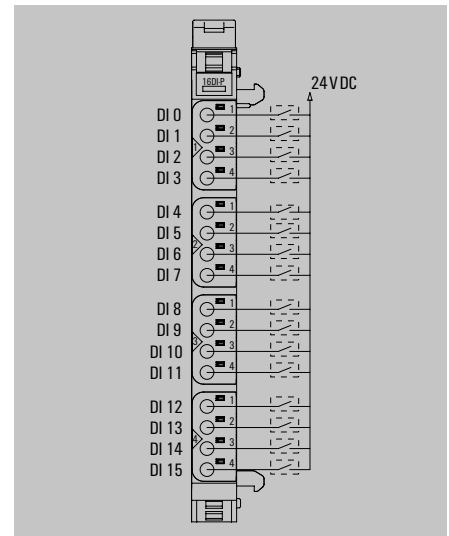
Type	Qty.	Order No.
UR20-16DI-P	1	1315200000

Accessories

Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1315200000-SP	1	1346680000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315200000-SP	5	1346400000
Note			

Type	Qty.	Order No.
UR20-EM-1315200000-SP	1	1346680000
UR20-BM-SP	5	1350930000
UR20-PK-1315200000-SP	5	1346400000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315200000



Let's connect.

16DI-P-PLC-INT

- 16 digital inputs
- Positive switching
- Reverse polarity protection
- For connecting a PLC interface element
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-P-PLC-INT



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N external)	< 42 mA
Digital inputs	
Number	16
Input Type	Types 1 and 3, IEC 61131-2
Input filter	3 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	external
Sensor connection	PLC interface
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

System data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Galvanic isolation	yes, DC 500 V between current paths	
Supply		
Voltage supply	24 V DC +20 % / - 15 % via the system bus	
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA	
Current consumption (I _N external)	< 42 mA	
Digital inputs		
Number	16	
Input Type	Types 1 and 3, IEC 61131-2	
Input filter	3 ms	
Input voltage, low	< 5 V	
Input voltage, high	> 11 V	
Sensor supply	external	
Sensor connection	PLC interface	
Reverse polarity protection	yes	
Module diagnosis	yes	
Individual channel diagnosis	no	
General data		
Weight	73 g	
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm	

Ordering data

Module variants	
Digital input module, 16 channels, PLC interface	

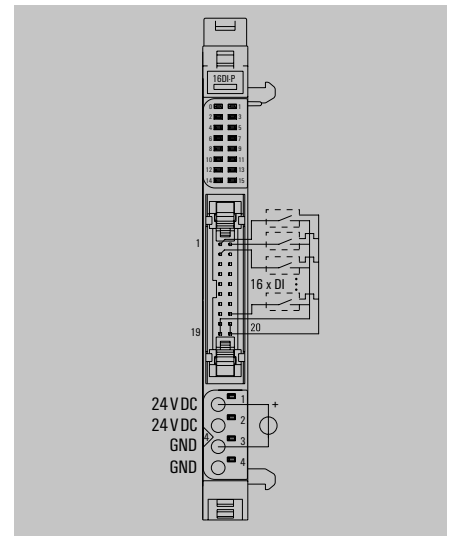
Type	Qty.	Order No.
UR20-16DI-P-PLC-INT	1	1315210000

Accessories

Accessories	
Coding elements	KDSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1315210000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315210000-SP
PLC interface element	RS 16IO 1W H S
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M
Note	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315210000-SP	1	1346690000
UR20-BM-SP	5	1350930000
UR20-PK-1315210000-SP	5	1346590000
RS 16IO 1W H S	1	9445700000
PAC-UNIV-HE20-LCH-1M	1	7789306010

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315210000



Let's connect.

2DI-P-TS

- 2 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2
- 1 µs Timestamp resolution

UR20-2DI-P-TS



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	< 10 mA + sensor feed
Digital Inputs	
Number	2
Input Type	Type 1 und 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Data width Timestamp	16 Bit
Resolution Timestamp	1 µs
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants	
Digital input module, 2 channels, Timestamp	

Type	Qty.	Order No.
UR20-2DI-P-TS	1	1460140000

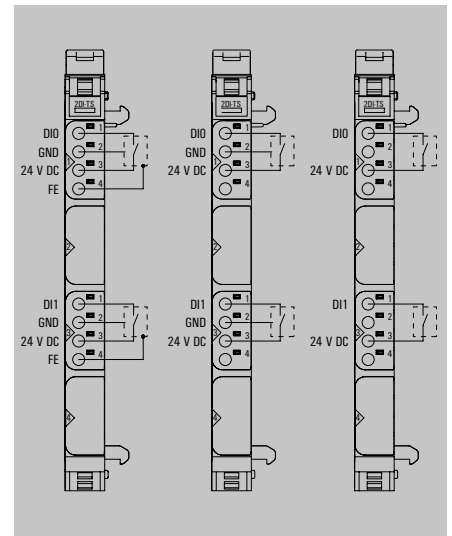
Accessories

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	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts	
Electronics module	UR20-EM-1460140000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1460140000-SP
Note	

UR20-EM-1460140000-SP	1	1463690000
UR20-BM-SP	5	1350930000
UR20-PK-1460140000-SP	5	1484110000
* ¹⁾ 1 roll = 1000 label = 1 Qty.		
* ²⁾ 1 sheet = 60 label = 1 Qty.		



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

4DI-P-TS

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2
- 1 μ s Timestamp resolution

UR20-4DI-P-TS



Technical data

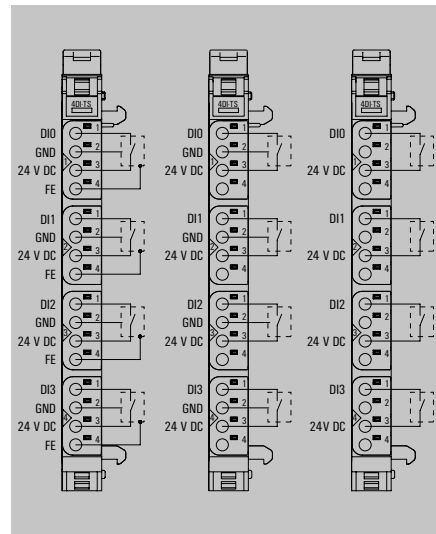
System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{IN} in the respective power segment)	< 10 mA + sensor feed
Digital Inputs	
Number	4
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Data width Timestamp	16 Bit
Resolution Timestamp	1 μ s
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data		
Module variants		
Digital input module, 4 channels, Timestamp		
Type	Qty.	Order No.
UR20-4DI-P-TS	1	1460150000

Accessories

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
Replacement parts		
Electronics module	1	1463680000
Basic module	5	1350930000
Plug-in connector unit	5	1484430000
Note		
* ¹⁾ 1 roll = 1000 label = 1 Qty.		
* ²⁾ 1 sheet = 60 label = 1 Qty.		

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

4D0-P

- 4 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 2-wire, 3-wire, 3-wire+FE connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-4D0-P



Technical data

System data

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Type of load
Response time, high
Response time, low
Output current per channel, max.
Output current per module, max.
Switching frequency max.
Resistive load (min. 47 Ω)
Inductive load (DC 13)
Lamp load (12 W)

Actuator connection

Short-circuit-proof
Non reactive
Module diagnosis
Individual channel diagnosis
Shut-down energy (inductive)
Response time of protective circuit (current limitation)

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbit/s
yes, DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus
8 mA
10 mA + load

4
ohmic, inductive, lamp load
100 μs
250 μs
0.5 A
2 A

1 kHz
*)
1 kHz

2-wire, 3-wire, 3-wire+FE
thermal

yes
yes
no
150 mJ / channel
< 100 μs (ambient temperature dependent)

86 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants

Digital output module, 4 channels

Type	Qty.	Order No.
UR20-4D0-P	1	1315220000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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

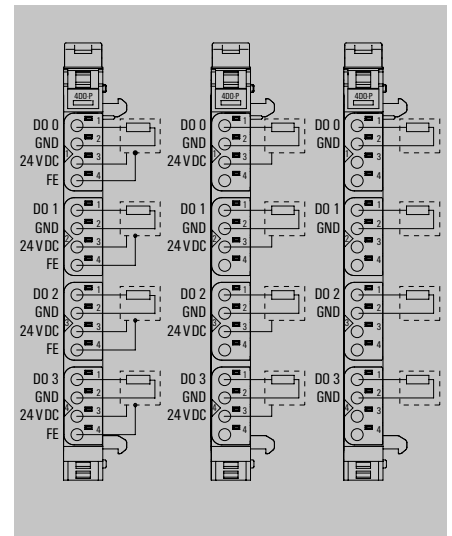
Electronics module
Basic module
Plug-in connector unit

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1315220000-SP	1	1346700000
UR20-BM-SP	5	1350930000
UR20-PK-1315220000-SP	5	1483960000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315220000



Let's connect.

4D0-P-2A

- 4 digital outputs
- Module can be loaded up to 8 A
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- 2-wire, 3-wire, 3-wire+FE connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-4D0-P-2A



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	10 mA + load
Digital outputs	
Number	4
Type of load	ohmic, inductive, lamp load
Response time, high	100 µs
Response time, low	250 µs
Output current per channel, max.	2 A
Output current per module, max.	8 A
Switching frequency max.	1 kHz
	*)
	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire+FE
Short-circuit-proof	thermal
Non reactive	yes
Module diagnosis	yes
Individual channel diagnosis	no
Shut-down energy (inductive)	150 mJ / channel
Response time of protective circuit (current limitation)	< 100 µs (ambient temperature dependent)
General data	
Weight	86 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital output module, 4 channels, 2 A	

Type	Qty.	Order No.
UR20-4D0-P-2A	1	1315230000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

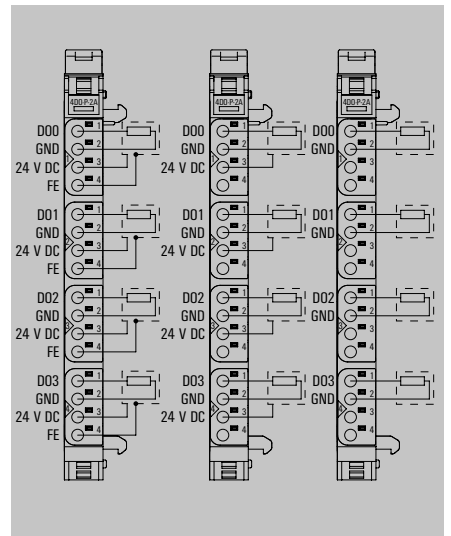
Accessories	
Coding elements	KOSM BHZ5 00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESD UR20 DIN A4 WS * ²⁾

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts	
Electronics module	UR20-EM-1315230000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315230000-SP
Note	

UR20-EM-1315230000-SP	1	1346710000
UR20-BM-SP	5	1350930000
UR20-PK-1315230000-SP	5	1483970000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315230000



Let's connect.

4D0-PN-2A

- 4 digital outputs
- Module can be loaded up to 8 A
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- Positive or negative switching
- 2-wire, 3-wire, 3-wire+FE connection
- IEC 61131-2 compliant

Technical data

System data

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Positive or negative switching
Type of load
Response time, high
Response time, low
Output current per channel, max.
Output current per module, max.
Switching frequency max.
Resistive load (min. 47 Ohm)
Inductive load (DC 13)
Lamp load (12 W)

Actuator connection
Short-circuit-proof
Non reactive
Module diagnosis
Individual channel diagnosis
Shut-down energy (inductive)
Response time of protective circuit (current limitation)

General data

Weight
Dimensions (H/W/D)

Ordering data

Module variants

Digital output module, 4 channels, positively or negatively switching

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

Electronics module
Basic module
Plug-in connector unit

Note

UR20-4D0-PN-2A



u-remote system bus

48 Mbit/s
yes, DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus
8 mA
10 mA + load

4
parameterise
ohmic, inductive, lamp load

100 µs
250 µs
2 A
8 A

1 kHz
*)
1 kHz
2-wire, 3-wire, 3-wire+FE

thermal
yes
yes
no
150 mJ / channel
< 100 µs (ambient temperature dependent)

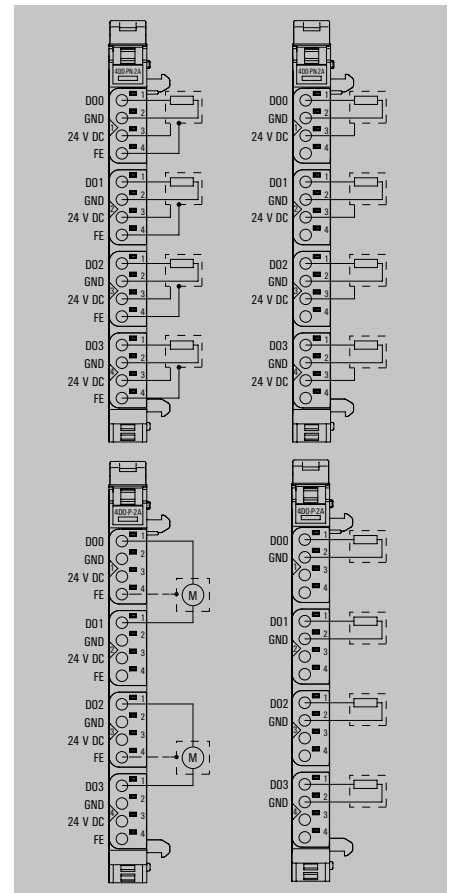
87 g
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Type	Qty.	Order No.
UR20-4D0-PN-2A	1	1394420000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Type	Qty.	Order No.
KDSM 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-1394420000-SP	1	1480950000
UR20-BM-SP	5	1350930000
UR20-PK-1394420000-SP	5	1483980000

*)¹ 1 roll = 1000 label = 1 Qty.
*)² 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

8DO-P

- 8 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 2-wire connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-8DO-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	15 mA + load
Digital outputs	
Number	8
Type of load	ohmic, inductive, lamp load
Response time, high	100 µs
Response time, low	250 µs
Output current per channel, max.	0.5 A
Output current per module, max.	4 A
Switching frequency max.	1 kHz
	*)
	1 kHz
Actuator connection	2-wire
Short-circuit-proof	thermal
Non reactive	yes
Module diagnosis	yes
Individual channel diagnosis	no
Shut-down energy (inductive)	150 mJ / channel
Response time of protective circuit (current limitation)	< 100 µs (ambient temperature dependent)
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital output module, 8 channels	

Type	Qty.	Order No.
UR20-8DO-P	1	1315240000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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	

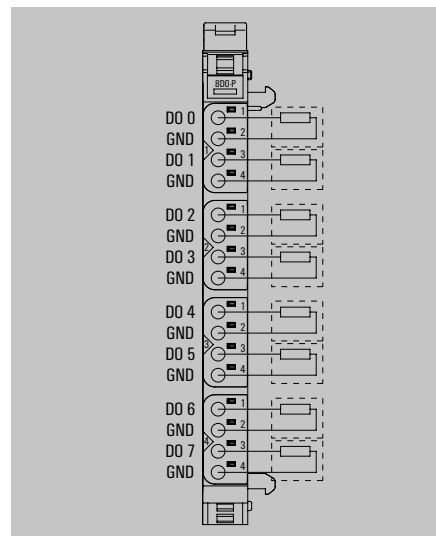
Type	Qty.	Order No.
KOSM BHZ5 00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *)	1	1429910000
THM UR20 WS *)	1	1429420000
ESD UR20 DIN A4 WS *)	10	1429430000

Replacement parts	
Electronics module	UR20-EM-1315240000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315240000-SP

Note

1	1346720000
5	1350930000
5	1346410000

*) 1 roll = 1000 label = 1 Qty.
 *) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315240000



Let's connect.

8DO-P-2W-HD

- 8 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 2-wire connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

Technical data

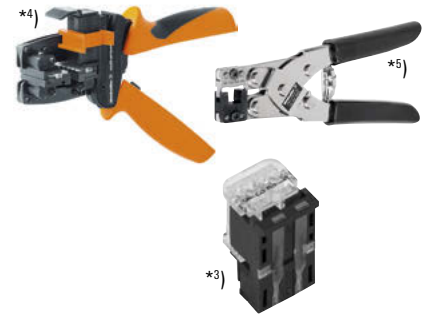
System data
Interface
Transmission rate of system bus
Galvanic isolation
Supply
Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)
Digital outputs
Number
Type of load
Response time, high
Response time, low
Output current per channel, max.
Output current per module, max.
Switching frequency max.
Resistive load (min. 47 Ω)
Inductive load (DC 13)
Lamp load (12 W)
Actuator connection
Short-circuit-proof
Non reactive
Module diagnosis
Individual channel diagnosis
Shut-down energy (inductive)
Response time of protective circuit (current limitation)
General data
Weight
Dimensions (H/W/D)

Ordering data

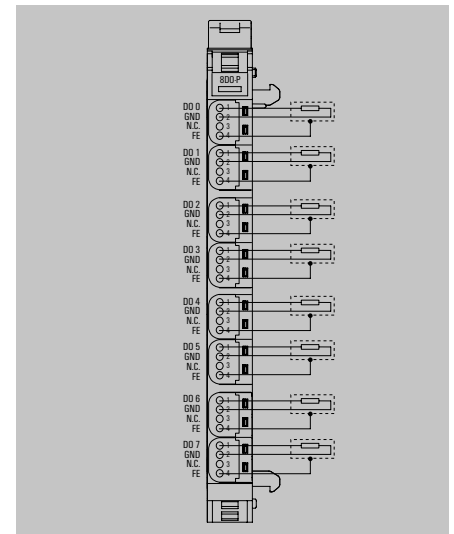
Module variants
Digital output module, 8 channels, HD-plug
Note

Accessories

Coding elements
Termination kit
Swivel marker
^{*3)} HD-Plug
^{*4)} Stripping tool
^{*5)} Pressing tool
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (Material: Polyester)
Paper version for Laserprinter
Replacement parts
Electronics module
Basic module
Plug-in connector unit
Note

UR20-8DO-P-2W-HD


Note: Please order connector separately



u-remote system bus
48 Mbit/s
500 V DC between current paths
24 V DC +20 % / -15 % via the system bus
8 mA
40 mA + load
8
ohmic, inductive, lamp load
max. 50 μ s
max. 100 μ s
0.5 A
4
1 kHz
0.2 Hz without snubber diode / 1 kHz with suitable snubber diode
1 kHz
2-wire
thermal
yes
yes
no
150 mJ / channel
< 100 μ s (ambient temperature dependent)
88 g
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Type	Qty.	Order No.
UR20-8DO-P-2W-HD	1	1509830000

Type	Qty.	Order No.
KOSM BHZ5 00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE ^{*1)}	1	1429910000
THM UR20 WS ^{*1)}	1	1429420000
ESO UR20 DIN A4 WS ^{*2)}	10	1429430000
UR20-EM-1509830000-SP	1	1515450000
UR20-BM-SP	5	1350930000
UR20-PK-1509830000-SP	5	1559720000

^{*1)} 1 roll = 1000 label = 1 Qty.
^{*2)} 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

16DO-P

- 16 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 1-wire connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{in} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{out} in the respective power segment)	20 mA + load
Digital outputs	
Number	16
Type of load	ohmic, inductive, lamp load
Response time, high	100 µs
Response time, low	250 µs
Output current per channel, max.	0.5 A
Output current per module, max.	8 A
Switching frequency max.	1 kHz
	*)
	1 kHz
Actuator connection	1-wire
Short-circuit-proof	thermal
Non reactive	yes
Module diagnosis	yes
Individual channel diagnosis	no
Shut-down energy (inductive)	150 mJ / channel
Response time of protective circuit (current limitation)	< 100 µs (ambient temperature dependent)
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

System data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Galvanic isolation	yes, DC 500 V between current paths	
Supply		
Voltage supply	24 V DC +20 % / - 15 % via the system bus	
Current consumption (I _{in} in power segment of field bus coupler), typ.	8 mA	
Current consumption (I _{out} in the respective power segment)	20 mA + load	
Digital outputs		
Number	16	
Type of load	ohmic, inductive, lamp load	
Response time, high	100 µs	
Response time, low	250 µs	
Output current per channel, max.	0.5 A	
Output current per module, max.	8 A	
Switching frequency max.	1 kHz	
	*)	
	1 kHz	
Actuator connection	1-wire	
Short-circuit-proof	thermal	
Non reactive	yes	
Module diagnosis	yes	
Individual channel diagnosis	no	
Shut-down energy (inductive)	150 mJ / channel	
Response time of protective circuit (current limitation)	< 100 µs (ambient temperature dependent)	
General data		
Weight	83 g	
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm	

Ordering data

Module variants	
Digital output module, 16 channels	

Type	Qty.	Order No.
UR20-16DO-P	1	1315250000

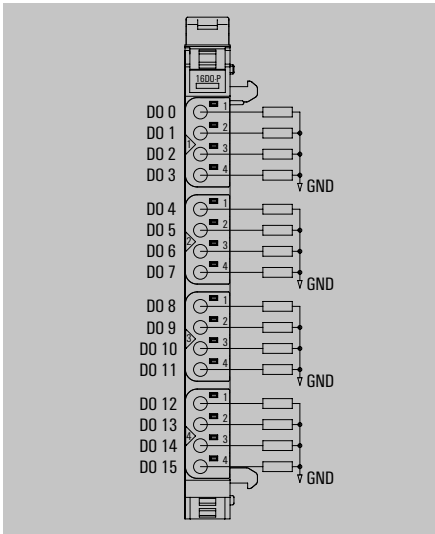
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

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	
Electronics module	
Basic module	
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
ESO UR20 DIN A4 WS *)	10	1429430000
Replacement parts		
UR20-EM-1315250000-SP	1	1346730000
UR20-BM-SP	5	1350930000
UR20-PK-1315250000-SP	5	1483990000

*) 1 roll = 1000 label = 1 Qty.
 *) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315250000



Let's connect.

16DO-P-PLC-INT

- 16 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- For connecting a PLC interface element
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{OUT} external)	20 mA + load
Digital outputs	
Number	16
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
Output current per channel, max.	0.5 A
Output current per module, max.	8 A (2 A with supply via a flat ribbon cable)
Switching frequency max.	1 kHz
	*)
	1 kHz
Actuator connection	PLC interface
Short-circuit-proof	thermal
Non reactive	yes
Module diagnosis	yes
Individual channel diagnosis	no
Shut-down energy (inductive)	150 mJ / channel
Response time of protective circuit (current limitation)	< 100 μ s (ambient temperature dependent)
General data	
Weight	82 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants
Digital output module, 16 channels, PLC interface

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
Electronics module
Basic module
Plug-in connector unit
PLC interface element
Pre-assembled cable, 1m
Note

UR20-16DO-P-PLC-INT



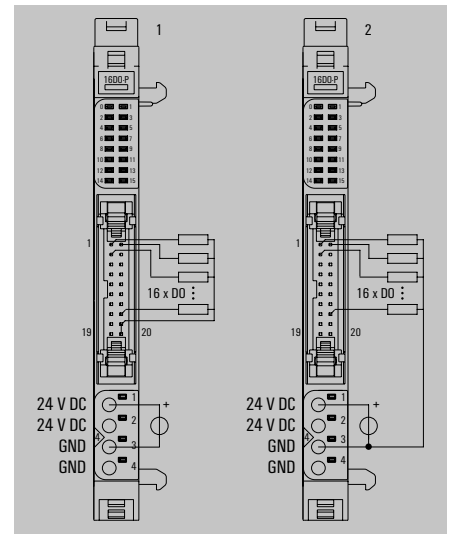
u-remote system bus
48 Mbit/s
yes, DC 500 V between current paths
24 V DC +20 % / -15 % via the system bus
8 mA
20 mA + load
16
ohmic, inductive, lamp load
100 μ s
250 μ s
0.5 A
8 A (2 A with supply via a flat ribbon cable)
1 kHz
*)
1 kHz
PLC interface
thermal
yes
yes
no
150 mJ / channel
< 100 μ s (ambient temperature dependent)
82 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Type	Qty.	Order No.
UR20-16DO-P-PLC-INT	1	1315270000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315270000-SP	1	1346740000
UR20-BM-SP	5	1350930000
UR20-PK-1315270000-SP	5	1483940000
RS 16IO 1W H S	1	9445700000
PAC-UNIV-HE20-LCH-1M	1	7789306010

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315270000



Let's connect.

4R0-SSR-255

- 4 digital outputs
- Can be loaded up to 0.5 A per channel
- Solid-state relay

UR20-4R0-SSR-255



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	< 15 mA
Digital outputs	
Number	4
Type	SSR /Triac
Response time, high	max. 20 ms, zero-crossing-detection
Response time, low	max. 20 ms, zero-crossing-detection
Output current per channel, max.	0.5 A
Output current per module, max.	2 A
Switching frequency max.	40 Hz
Short-circuit-proof	no
Non reactive	yes
Switching voltage max.	277 V AC *
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital output module, 4 channels, SSR	

Type	Qty.	Order No.
UR20-4R0-SSR-255	1	1315540000

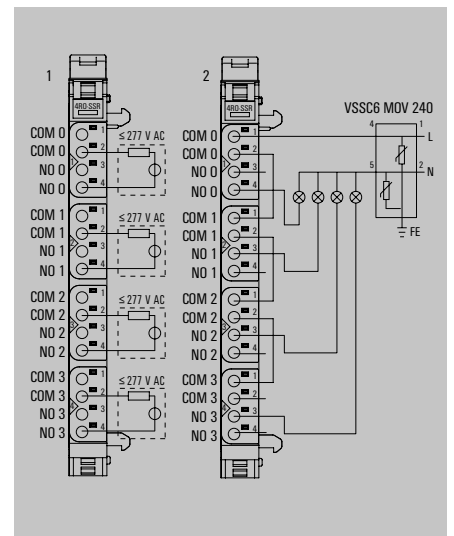
*1) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

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	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

Type	Qty.	Order No.
KDSM 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315540000-SP	1	1347120000
UR20-BM-SP	5	1350930000
UR20-PK-1315540000-SP	5	1484000000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

4RO-CO-255

- 4 digital outputs
- Can be loaded up to 6 A per channel
- Relay output, change-over contact
- Switching voltage 277 V AC/DC

UR20-4RO-CO-255



Technical data

System data

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Type
Response time, high
Response time, low
Output current per channel, max.
Output current per module, max.
Switching frequency max.
Short-circuit-proof
Non reactive
Switching voltage max.
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

u-remote system bus
48 Mbit/s
yes, DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus
8 mA
< 15 mA

4
Change-over contact
20 ms
20 ms
5 A at 60 °C / 6 A at 55 °C
20 A at 60 °C / 24 A at 55 °C

5 Hz
no
yes
277 V AC/DC *)
yes
no

83 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants

Digital output module, 4 channels, relay

Type	Qty.	Order No.
UR20-4RO-CO-255	1	1315550000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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

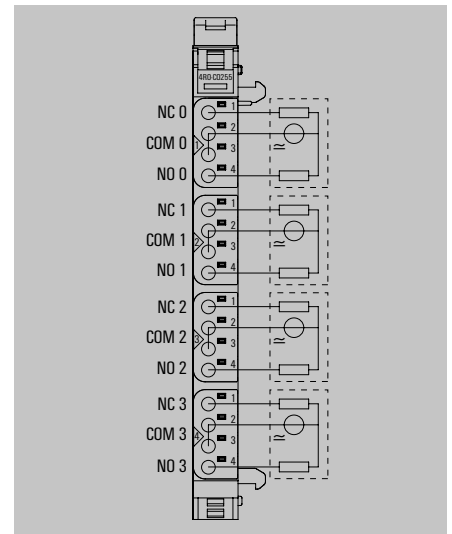
Electronics module
Basic module
Plug-in connector unit

Note

Type	Qty.	Order No.
KDSM 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-1315550000-SP	1	1347130000
UR20-BM-SP	5	1350930000
UR20-PK-1315550000-SP	5	1346500000

*)¹ 1 roll = 1000 label = 1 Qty.
*)² 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315550000



Let's connect.

1CNT-100-1D0

- Latch-, Gate- and Reset input
- Counter data width 32-Bit
- Maximum input frequency 100 kHz
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms
- One digital output

UR20-1CNT-100-1D0



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	35 mA
Digital Inputs	
Number of counter inputs	1
Type	incremental encoder
Input filter	adjustable up to 1 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor feed	yes
Sensor connection	2- and 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Single channel diagnosis	no
Input current per channel, max.	3.5 mA
Counter data width	32 Bit
Input frequency, max.	100 kHz
Counter frequency, max.	400 kHz
Latch-, Gate-, Reset-input	yes
Operation mode	Impulse / direction / 1-, 2-, 4-times
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data		
Module variants		
Digital counter module, 1 channel, 100 kHz		
Type	Qty.	Order No.
UR20-1CNT-100-1D0	1	1315570000

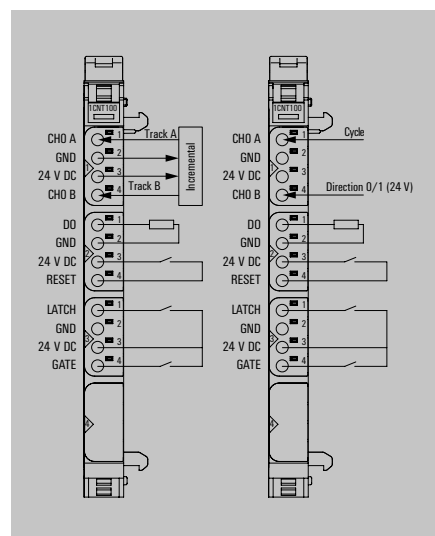
Ordering data

Accessories		
Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315570000-SP	1	1347140000
UR20-BM-SP	5	1350930000
UR20-PK-1315570000-SP	5	1346520000

Accessories

Replacement parts		
Electronics module		
Basic module		
Plug-in connector unit		
Note		
* ¹⁾ 1 roll = 1000 label = 1 Qty.		
* ²⁾ 1 sheet = 60 label = 1 Qty.		

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Product standard		
Product standard	IEC 61131-2	
EMC	EN 61000	
ATEX	EN 60079	
UL	UL 508	



Let's connect.

2CNT-100

- Counter data width 32 Bit
- Maximum input frequency 100 kHz
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I_N in power segment of field bus coupler), typ.	8 mA
Current consumption (I_N in the respective power segment)	35 mA
Digital Inputs	
Number of counter inputs	2
Type	incremental encoder
Input filter	adjustable up to 1 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor feed	yes
Sensor connection	2- and 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Single channel diagnosis	no
Input current per channel, max.	3 mA
Counter data width	32 Bit
Input frequency, max.	100 kHz
Counter frequency, max.	400 kHz
Operation mode	Impulse / direction / 1-, 2-, 4-times
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants
Digital counter module, 2 channel, 100 kHz

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
Electronics module
Basic module
Plug-in connector unit
Note

UR20-2CNT-100

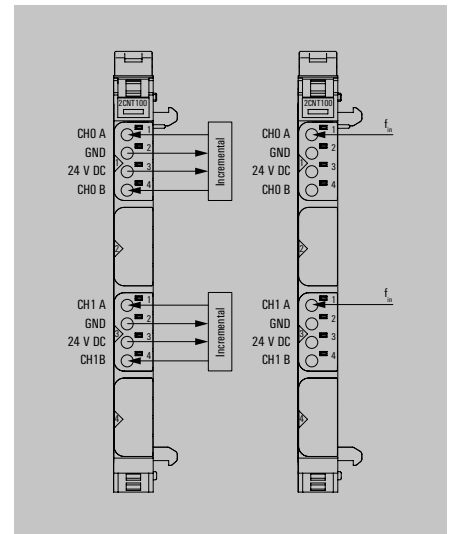


u-remote system bus
48 Mbit/s
yes, DC 500 V between current paths
24 V DC +20 % / - 15 % via the system bus
8 mA
35 mA
2
incremental encoder
adjustable up to 1 ms
< 5 V
> 11 V
yes
2- and 3-wire
yes
yes
no
3 mA
32 Bit
100 kHz
400 kHz
Impulse / direction / 1-, 2-, 4-times
87 g
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Type	Qty.	Order No.
UR20-2CNT-100	1	1315590000

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315590000-SP	1	1347150000
UR20-BM-SP	5	1350930000
UR20-PK-1315590000-SP	5	1346540000

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

2FCNT-100

- Counter data width 32 Bit
- Maximum input frequency 100 kHz
- Operation mode impulse
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-2FCNT-100



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	35 mA
Digital Inputs	
Number of counter inputs	2
Type	digital input
Input filter	adjustable up to 1 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor feed	yes
Sensor connection	2- and 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Single channel diagnosis	no
Input current per channel, max.	3 mA
Counter data width	32 Bit
Input frequency, max.	100 kHz
Operation mode	Impulse
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

System data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Galvanic isolation	yes, DC 500 V between current paths	
Supply		
Voltage supply	24 V DC +20 % / - 15 % via the system bus	
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA	
Current consumption (I _N in the respective power segment)	35 mA	
Digital Inputs		
Number of counter inputs	2	
Type	digital input	
Input filter	adjustable up to 1 ms	
Input voltage, low	< 5 V	
Input voltage, high	> 11 V	
Sensor feed	yes	
Sensor connection	2- and 3-wire	
Reverse polarity protection	yes	
Module diagnosis	yes	
Single channel diagnosis	no	
Input current per channel, max.	3 mA	
Counter data width	32 Bit	
Input frequency, max.	100 kHz	
Operation mode	Impulse	
General data		
Weight	87 g	
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm	

Ordering data

Module variants	
Digital frequency counter module, 2 channel, 100 kHz	

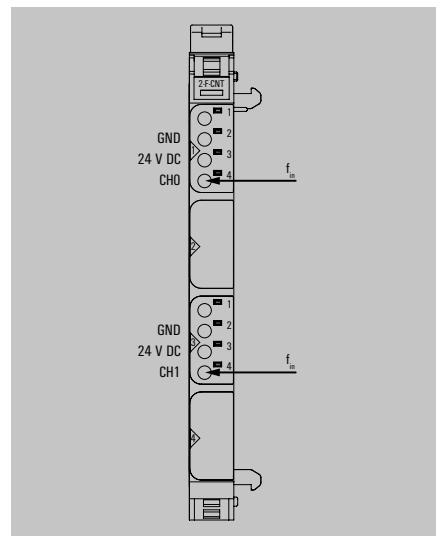
Type	Qty.	Order No.
UR20-2FCNT-100	1	1508080000

Accessories

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	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1508080000-SP	1	1515440000
UR20-BM-SP	5	1350930000
UR20-PK-1508080000-SP	5	1518840000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

2PWM-PN-0.5A

- 2 pulse width modulation module outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- Push/pull output
- Maximum 40 kHz output frequency (adjustable)

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{OUT} in the respective power segment)	40 mA + Load
Digital outputs	
Number	2
Type	PWM push/pull output stage
Resolution	32 Bit
Accuracy	1 Bit
Response time, high	< 100 ns
Response time, low	< 100 ns
Output current per channel, max.	0.5 A
Output current per module, max.	1 A
Switching frequency max.	
	static, 6 Hz to 40 kHz
	inductive, 6 Hz to 40 kHz
	lamp, 6 Hz to 40 kHz
Actuator connection	yes
Short-circuit-proof	yes
Module diagnosis	yes
Individual channel diagnosis	no
Non reactive	yes
Pulse duty factor	0 - 100 % push/pull or push parameterisable
General data	
Weight	77 g
Dimensions (H/W/D)	120 mm (with catch lever) x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital output module, PWM, 2 channels, 0.5 A	

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	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

UR20-2PWM-PN-0.5A

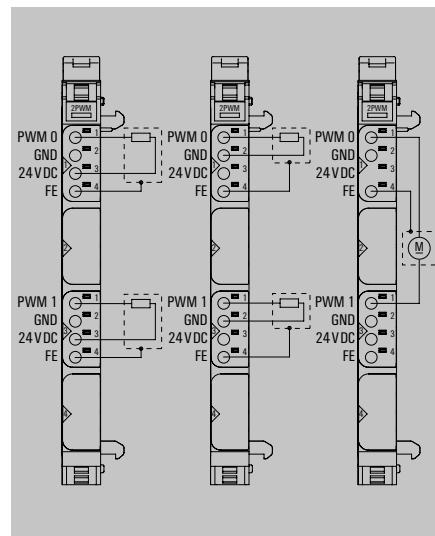


u-remote system bus	
48 Mbit/s	
yes, DC 500 V between current paths	
24 V DC +20 % / - 15 % via the system bus	
8 mA	
40 mA + Load	
2	
PWM push/pull output stage	
32 Bit	
1 Bit	
< 100 ns	
< 100 ns	
0.5 A	
1 A	
static, 6 Hz to 40 kHz	
static, 6 Hz to 40 kHz	
static, 6 Hz to 40 kHz	
yes	
yes	
yes	
no	
yes	
0 - 100 % push/pull or push parameterisable	
77 g	
120 mm (with catch lever) x 11,5 mm x 76 mm	

Type	Qty.	Order No.
UR20-2PWM-PN-0.5A	1	131560000

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315600000-SP	1	1347180000
UR20-BM-SP	5	1350930000
UR20-PK-1315600000-SP	5	1484010000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

2PWM-PN-2A

- 2 pulse width modulation module outputs
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- Push/pull output
- Maximum 40 kHz output frequency (adjustable)

UR20-2PWM-PN-2A



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	40 mA + Load
Digital outputs	
Number	2
Type	PWM push/pull output stage
Resolution	32 Bit
Accuracy	1 Bit
Response time, high	< 100 ns
Response time, low	< 100 ns
Output current per channel, max.	2 A
Output current per module, max.	4 A
Switching frequency max.	
	static, 6 Hz to 40 kHz
	inductive load (DC 13)
	static, 6 Hz to 40 kHz
	static, 6 Hz to 40 kHz
Actuator connection	yes
Short-circuit-proof	yes
Module diagnosis	yes
Individual channel diagnosis	no
Non reactive	yes
Pulse duty factor	0 - 100 % push/pull or push parameterisable
General data	
Weight	82 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants	
Digital output module, PWM, 2 channels, 2 A	

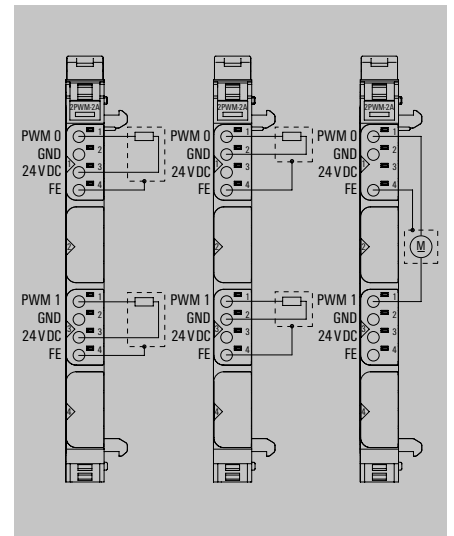
Type	Qty.	Order No.
UR20-2PWM-PN-2A	1	1315610000

Accessories

Coding elements	KDSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1315610000-SP	1	1347190000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315610000-SP	5	1346550000
Note			

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315610000-SP	1	1347190000
UR20-BM-SP	5	1350930000
UR20-PK-1315610000-SP	5	1346550000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

4AI-UI-16

- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number	4
Input	1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V) 2. Current (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	89 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

System data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Galvanic isolation	yes, DC 500 V between current paths	
Supply		
Voltage supply	24 V DC +20 % / -15 % via the system bus	
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA	
Current consumption (I _N in the respective power segment)	25 mA + sensor feed	
Analogue inputs		
Number	4	
Input	1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V) 2. Current (0...20 mA, 4...20 mA)	
Resolution	16 Bit	
Accuracy	0.1 % FSR	
Sensor supply	yes	
Sensor connection	2-wire, 3-wire, 3-wire+FE	
Conversion time	1 ms	
Internal resistance U	100 kΩ	
Internal resistance I	41.2 Ω	
Reverse polarity protection	yes	
Module diagnosis	yes	
Individual channel diagnosis	no	
Short-circuit-proof	yes	
General data		
Weight	89 g	
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm	

Ordering data

Module variants	
Analogue input module, 4 channels, 16 bits	

Type	Qty.	Order No.
UR20-4AI-UI-16	1	1315620000

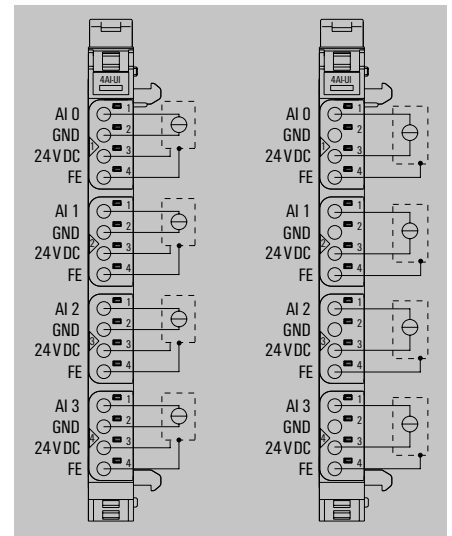
Accessories

Coding elements	KDSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts			
Electronics module	UR20-EM-1315620000-SP	1	1347200000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315620000-SP	5	1484020000
Note			

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315620000-SP	1	1347200000
UR20-BM-SP	5	1350930000
UR20-PK-1315620000-SP	5	1484020000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315620000



Let's connect.

4AI-UI-16-DIAG

- Advanced diagnosis functions
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number	4
Input	1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V) 2. Current (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
Short-circuit-proof	yes
General data	
Weight	89 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Technical data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Galvanic isolation	yes, DC 500 V between current paths	
Supply		
Voltage supply	24 V DC +20 % / -15 % via the system bus	
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA	
Current consumption (I _N in the respective power segment)	25 mA + sensor feed	
Analogue inputs		
Number	4	
Input	1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V) 2. Current (0...20 mA, 4...20 mA)	
Resolution	16 Bit	
Accuracy	0.1 % FSR	
Sensor supply	yes	
Sensor connection	2-wire, 3-wire, 3-wire+FE	
Conversion time	1 ms	
Internal resistance U	100 kΩ	
Internal resistance I	approx. 45 Ω	
Reverse polarity protection	yes	
Module diagnosis	yes	
Individual channel diagnosis	yes	
Short-circuit-proof	yes	
General data		
Weight	89 g	
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm	

Ordering data

Module variants	
Analogue input module, 4 channels, 16 bits, diagnosis functions	

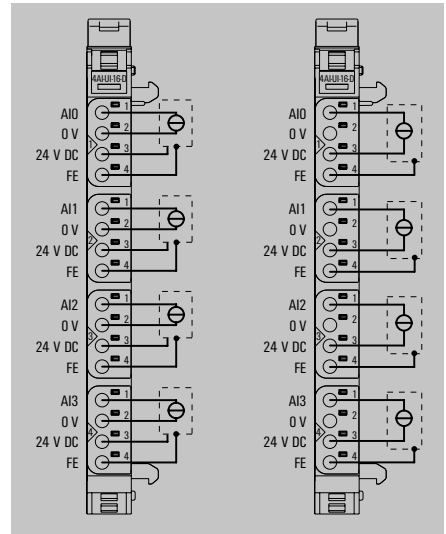
Type	Qty.	Order No.
UR20-4AI-UI-16-DIAG	1	1315690000

Accessories

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	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315690000-SP	1	1347280000
UR20-BM-SP	5	1350930000
UR20-PK-1315690000-SP	5	1518870000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315690000



Let's connect.

4AI-UI-16-HD

- 4 plugs with 4 connections per module
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number	4
Input	1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V) 2. Current (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	89 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

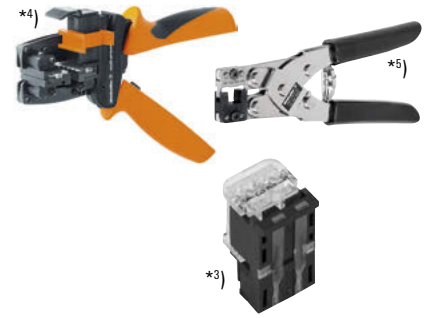
Ordering data

Module variants	
Analogue input module, 4 channels, 16 bits, HD plug	

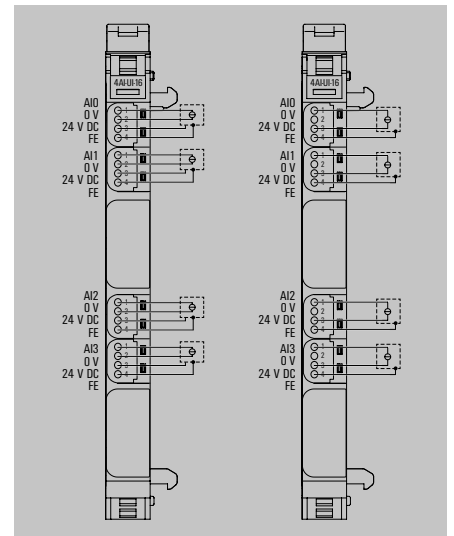
Accessories

Coding elements	
Termination kit	
Swivel marker	
*3) HD-Plug	
*4) Stripping tool	
*5) Pressing tool	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (Material: Polyester)	
Paper version for Laserprinter	
Replacement parts	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

UR20-4AI-UI-16-HD



Note: Please order connector separately



Type	Qty.	Order No.
UR20-4AI-UI-16-HD	1	1506920000

Type	Qty.	Order No.
KDSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESD UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1506920000-SP	1	1515420000
UR20-BM-SP	5	1350930000
UR20-PK-1506920000-SP	5	1518830000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508

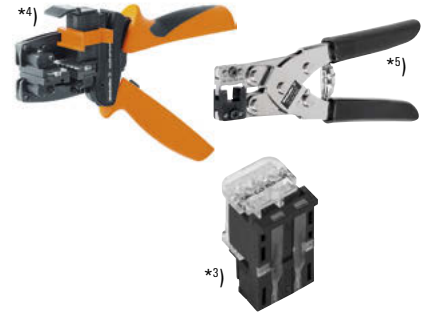


Let's connect.

4AI-UI-16-DIAG-HD

- 4 plugs with 4 connections per module
- Advanced diagnosis functions
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-DIAG-HD



Technical data

System data

Interface
Transmission rate of system bus
Galvanic isolation

Supply
Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number
Input

Resolution
Accuracy
Sensor supply
Sensor connection
Conversion time
Internal resistance U
Internal resistance I
Reverse polarity protection
Module diagnosis
Individual channel diagnosis
Short-circuit-proof

General data

Weight
Dimensions (H/W/D)

u-remote system bus
48 Mbit/s
yes, DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus
8 mA
25 mA + sensor feed

4
1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V)
2. Current (0...20 mA, 4...20 mA)

16 Bit
0.1 % FSR
yes
2-wire, 3-wire, 3-wire+FE
1 ms
100 kΩ
approx. 45 Ω
yes
yes
yes
yes

Ordering data

Module variants
Analogue input module, 4 channels, 16 bits, diagnosis functions, HD plug

Type	Qty.	Order No.
UR20-4AI-UI-16-DIAG-HD	1	1506910000

Accessories

Coding elements
Termination kit
Swivel marker
*3) HD-Plug
*4) Stripping tool
*5) Pressing tool
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (Material: Polyester)
Paper version for Laserprinter

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

Replacement parts

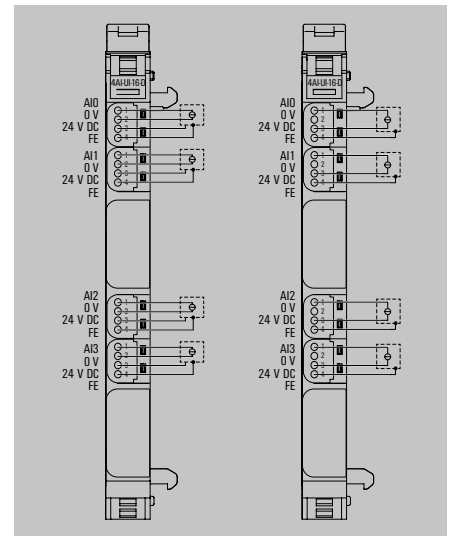
Electronics module
Basic module
Plug-in connector unit

UR20-EM-1506910000-SP	1	1515430000
UR20-BM-SP	5	1350930000
UR20-PK-1506910000-SP	5	1518820000

Note

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

Note: Please order connector separately



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

4AI-UI-12

- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 12-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.25 % FSR

UR20-4AI-UI-12



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number	4
Input	1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V) 2. Current (0...20 mA, 4...20 mA)
Resolution	12 Bit
Accuracy	0,25 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

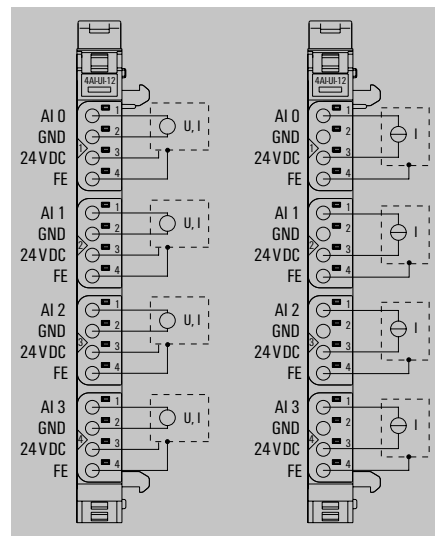
Module variants	
Analogue input module, 4 channels, 12 bits	

Type	Qty.	Order No.
UR20-4AI-UI-12	1	1394390000

Accessories

Replacement parts	
Electronics module	UR20-EM-1394390000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1394390000-SP
Note	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
* ¹⁾ 1 roll = 1000 label = 1 Qty. * ²⁾ 1 sheet = 60 label = 1 Qty.		



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

Technical data
 Machinery
 Process
 Energy
 Transportation
 Device Manufacturers

8AI-I-16-HD

- 8 plugs with 4 connections per module
- 8 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR
- HD-plug

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	500 V DC between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{IN} in the respective power segment)	20 mA + sensor feed
Analogue inputs	
Number	8
Input	Current (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance I	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

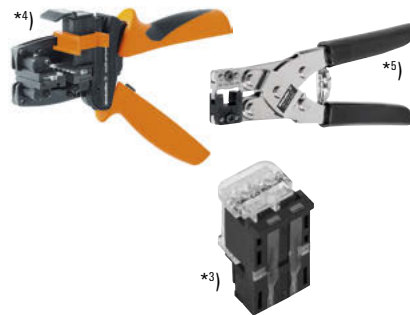
Ordering data

Module variants	
Analogue output module, 8 channels, 16 Bits, HD-plug	

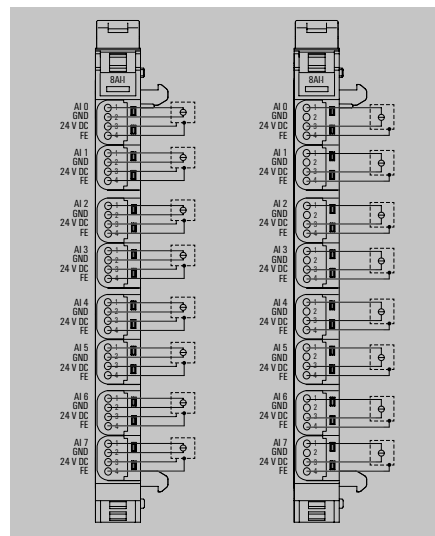
Accessories

Accessories	
Coding elements	
Termination kit	
Swivel marker	
*3) HD-Plug	
*4) Stripping tool	
*5) Pressing tool	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (Material: Polyester)	
Paper version for Laserprinter	
Replacement parts	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

UR20-8AI-I-16-HD



Note: Please order connector separately



Type	Qty.	Order No.
UR20-8AI-I-16-HD	1	1315650000

Type	Qty.	Order No.
KDSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax G-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESD UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315650000-S	1	1347240000
UR20-BM-SP	5	1350930000
UR20-PK-1315650000-SP	5	1559740000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508

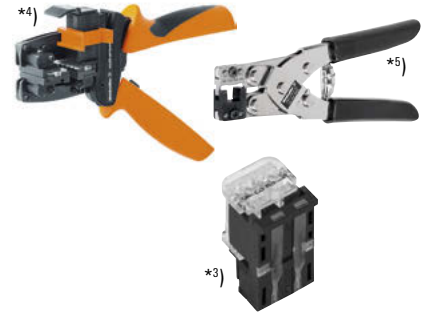


Let's connect.

8AI-I-16-DIAG-HD

- 8 plugs with 4 connections per module
- Advanced diagnosis functions
- 8 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-8AI-I-16-DIAG-HD



Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	20 mA + sensor feed
Analogue inputs	
Number	8
Input	Current (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance I	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
Short-circuit-proof	yes
General data	
Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Type	Qty.	Order No.
UR20-8AI-I-16-DIAG-HD	1	1315720000

Ordering data

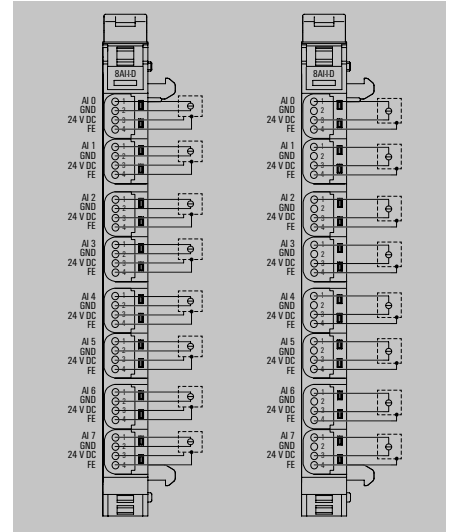
Module variants	
Analogue output module, 4 channels, 16 Bits, diagnosis functions, HD-plug	

Accessories

Accessories	
Coding elements	KOSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
*3) HD-Plug	UR20-PGO.35
*4) Stripping tool	multi-stripax 6-16
*5) Pressing tool	PWZ-UR20-HD
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)
Replacement parts	
Electronics module	UR20-EM-1315720000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315720000-SP
Note	

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315720000-SP	1	1347320000
UR20-BM-SP	5	1350930000
UR20-PK-1315720000-SP	5	1559750000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508



Let's connect.

8AI-PLC-INT

- 8 analogue inputs
- Rapid cabling with flat ribbon cable
- 0/4 to 20 mA with 0.1 % accuracy with a 16-bit resolution
- Inputs can be parameterised (passive or active operating mode)

UR20-8AI-PLC-INT



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N external)	20 mA
Analogue inputs	
Number	8
Input	Current input
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	external
Sensor connection	PLC interface
Conversion time	1 ms
Internal resistance I	approx. 50 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

System data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Galvanic isolation	yes, DC 500 V between current paths	
Supply		
Voltage supply	24 V DC +20 % / - 15 % via the system bus	
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA	
Current consumption (I _N external)	20 mA	
Analogue inputs		
Number	8	
Input	Current input	
Resolution	16 Bit	
Accuracy	0.1 % FSR	
Sensor supply	external	
Sensor connection	PLC interface	
Conversion time	1 ms	
Internal resistance I	approx. 50 Ω	
Reverse polarity protection	yes	
Module diagnosis	yes	
Individual channel diagnosis	no	
Short-circuit-proof	yes	
General data		
Weight	73 g	
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm	

Ordering data

Module variants	
Analogue input module, 8 channels, PLC interface	

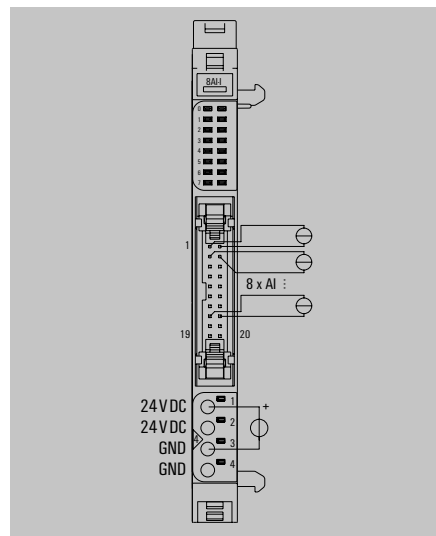
Type	Qty.	Order No.
UR20-8AI-PLC-INT	1	1315670000

Accessories

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	
Electronics module	
Basic module	
Plug-in connector unit	
PLC interface element	
Pre-assembled cable, 1m	
Note	

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315670000-SP	1	1347250000
UR20-BM-SP	5	1350930000
UR20-PK-1315670000-SP	5	1483950000
RS 16IO 1W H S	1	9445700000
PAC-UNIV-HE20-LCH-1M	1	7789306010

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315670000



Let's connect.

4AI-TC-DIAG

- 4 analogue inputs
- Various TC sensors
- High accuracy of 0.2 % FSR
- 16-bit resolution
- Individual channel diagnosis
- Internal or external cold-junction compensation possible
- Automatic 50 and 60 Hz suppression

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{IN} in the respective power segment)	20 mA
Analogue inputs	
Number	4
Sensor type	J, K, T, B, N, E, R, S, L, U, C, mV
Resolution	16 Bit
Accuracy	0,1 % FSR + 10 μ V
Sensor connection	2-wire
Cold-junction compensation	internal and external (int. accuracy \leq 3 K)
Temperature coefficient	50 ppm/K
Temperature range	-200...+2315 $^{\circ}$ C
Conversion time	36...240 ms, adjustable
Internal resistance	> 1 M Ω
Module diagnosis	yes
Individual channel diagnosis	yes
Reverse polarity protection	yes
General data	
Weight	86 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants	
Analogue input module, 4 channels, thermocouple	

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	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

UR20-4AI-TC-DIAG

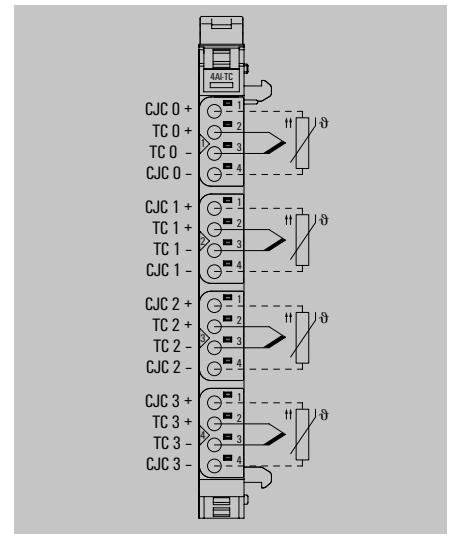


u-remote system bus	
48 Mbit/s	
yes, DC 500 V between current paths	
24 V DC +20 % / -15 % via the system bus	
8 mA	
20 mA	
4	
J, K, T, B, N, E, R, S, L, U, C, mV	
16 Bit	
0,1 % FSR + 10 μ V	
2-wire	
internal and external (int. accuracy \leq 3 K)	
50 ppm/K	
-200...+2315 $^{\circ}$ C	
36...240 ms, adjustable	
> 1 M Ω	
yes	
yes	
yes	
86 g	
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm	

Type	Qty.	Order No.
UR20-4AI-TC-DIAG	1	1315710000

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)}	1	1429910000
THM UR20 WS ^{*1)}	1	1429420000
ESD UR20 DIN A4 WS ^{*2)}	10	1429430000
UR20-EM-1315710000-SP	1	1435740000
UR20-BM-SP	5	1350930000
UR20-PK-1315710000-SP	5	1484050000

^{*1)} 1 roll = 1000 label = 1 Qty.
^{*2)} 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315710000



Let's connect.

4AI-RTD-DIAG

- 16-bit resolution
- Individual channel diagnosis
- Automatic 50 and 60 Hz suppression
- For 2-, 3- and 4-wire RTDs
- High accuracy
- For virtually all common sensors
- Temperature measurement via resistor

UR20-4AI-RTD-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _N in power segment of field bus coupler), typ.	8 mA
Current consumption (I _N in the respective power segment)	20 mA
Analogue inputs	
Number	4
Sensor type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni200, Ni500, Ni1000, Cu10, resistors with 40 Ω, 80 Ω, 150 Ω, 300 Ω, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ
Resolution	16 Bit
Sensor current	depending on the input type 0,75 mA (Pt100, Ni100, Ni120, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω) or 0,25 mA (Pt200, Pt500, Pt1000, Ni200, Ni500, Ni1000, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ)
Accuracy	0.2 % FSR, 0.3 % FSR for Ni sensors, 0.6 % FSR for Cu10
Sensor connection	2-wire, 3-wire, 4-wire
Temperature coefficient	50 ppm/K
Temperature range	-200...+850 °C
Conversion time	36...240 ms adjustable
Internal resistance	> 1 MΩ
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
General data	
Weight	91 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants	
Analogue input module, 4 channels, RTD	

Type	Qty.	Order No.
UR20-4AI-RTD-DIAG	1	1315700000

Accessories

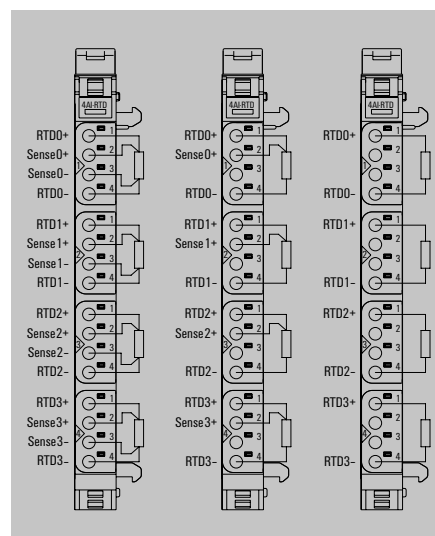
Coding elements	
Coding elements	KOSM BHZ5 00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESD UR20 DIN A4 WS * ²⁾

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts	
Electronics module	UR20-EM-1315700000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315700000-SP
Note	

UR20-EM-1315700000-SP	1	1347290000
UR20-BM-SP	5	1350930000
UR20-PK-1315700000-SP	5	1484040000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315700000



Let's connect.

4AO-UI-16

- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive
- Short-circuit-proof

UR20-4AO-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	85 mA
Analogue outputs	
Number	4
Output	1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
Response time	1 ms for 4 channels
Resolution	16 Bit
Accuracy	±0.1 % FSR max., 0.05 % FSR typ.
Load resistance, voltage output	> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	0,001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Replacement values	yes
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) x 11,5 mm x 76 mm

Ordering data

Module variants	
Analogue output module, 4 channels, 16 Bit	

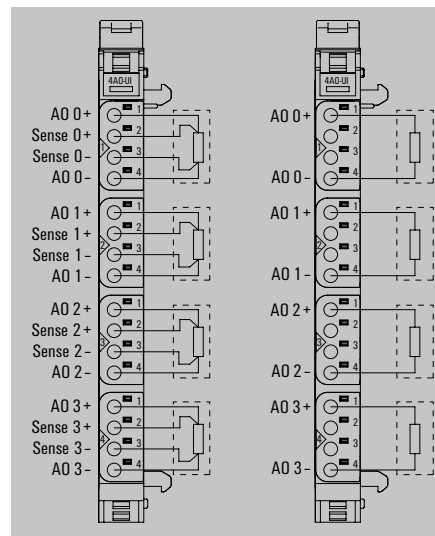
Type	Qty.	Order No.
UR20-4AO-UI-16	1	1315680000

Accessories

Coding elements	
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESD UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1315680000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315680000-SP
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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315680000-SP	1	1347270000
UR20-BM-SP	5	1350930000
UR20-PK-1315680000-SP	5	1484070000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315680000



Let's connect.

Technical data
 Machinery
 Process
 Energy
 Transportation
 Device Manufacturers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

4AO-UI-16-DIAG

- Advanced diagnosis functions
- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive
- Short-circuit-proof

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I _{in} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{out} in the respective power segment)	85 mA
Analogue outputs	
Number	4
Output	1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
Response time	1 ms for 4 channels
Resolution	16 Bit
Accuracy	±0.1 % FSR max., 0.05 % FSR typ.
Load resistance, voltage output	> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	0,001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	yes
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

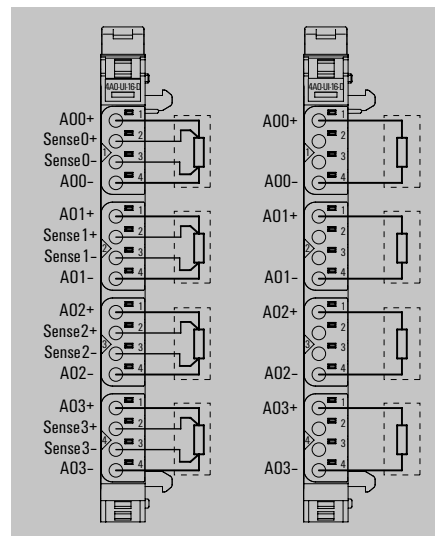
Module variants
Analogue output module, 4 channels, 16 Bits, diagnosis functions

Accessories

Type	Qty.	Order No.
KDSM 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1315730000-SP	1	1347330000
UR20-BM-SP	5	1350930000
UR20-PK-1315730000-SP	5	1518880000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.

UR20-4AO-UI-16-DIAG



Type	Qty.	Order No.
UR20-4AO-UI-16-DIAG	1	1315730000

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508
MSIP	MSIP-REM-WMG-1315730000



Let's connect.

4AO-UI-16-HD

- 4 analogue outputs
- 4 plugs with 4 connections per module
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive
- Short-circuit-proof

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	85 mA
Analogue outputs	
Number	4
Output	1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
Response time	1 ms for 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
Load resistance, voltage output	> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	0.001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	no
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

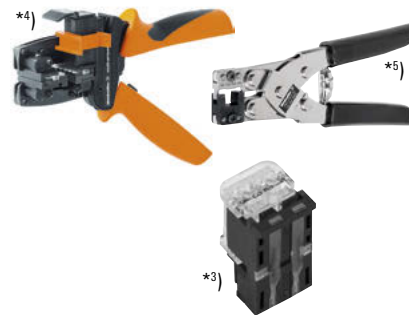
Ordering data

Module variants	
Analogue output module, 4 channels, 16 Bits, HD-plug	

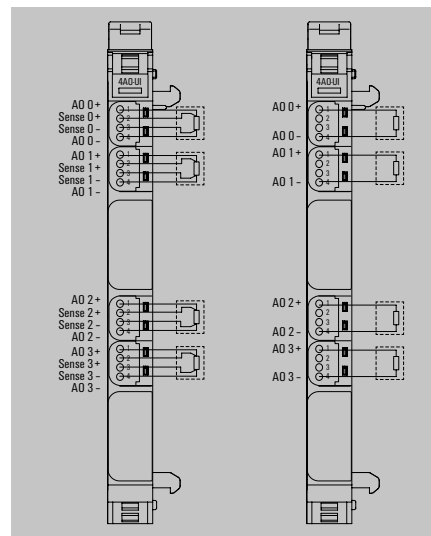
Accessories

Coding elements	
Termination kit	
Swivel marker	
^{*)} HD-Plug	
^{*)} Stripping tool	
^{*)} Pressing tool	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (Material: Polyester)	
Paper version for Laserprinter	
Replacement parts	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

UR20-4AO-UI-16-HD



Note: Please order connector separately



Type	Qty.	Order No.
UR20-4AO-UI-16-HD	1	1510690000

Type	Qty.	Order No.
KOSM BHZ5 00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
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-1510690000-SP	1	1515470000
UR20-BM-SP	5	1350930000
UR20-PK-1510690000-SP	5	1531830000

^{*)} 1 roll = 1000 label = 1 Qty.
^{*)} 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508



Let's connect.

4AO-UI-16-DIAG-HD

- 4 analogue outputs
- Advanced diagnosis functions
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive
- Short-circuit-proof

Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I _{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I _{OUT} in the respective power segment)	85 mA
Analogue outputs	
Number	4
Output	1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
Response time	1 ms for 4 channels
Resolution	16 Bit
Accuracy	±0.1 % FSR max., 0.05 % FSR typ.
Load resistance, voltage output	> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	±0.001 % FSR max.
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	yes
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

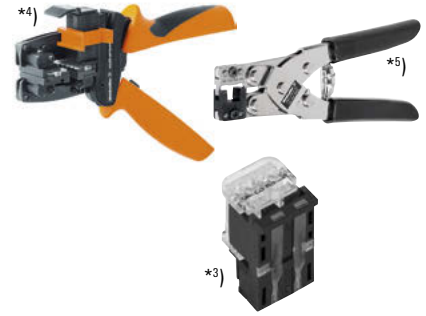
Ordering data

Module variants
Analogue output module, 4 channels, 16 Bits, diagnosis functions, HD-plug

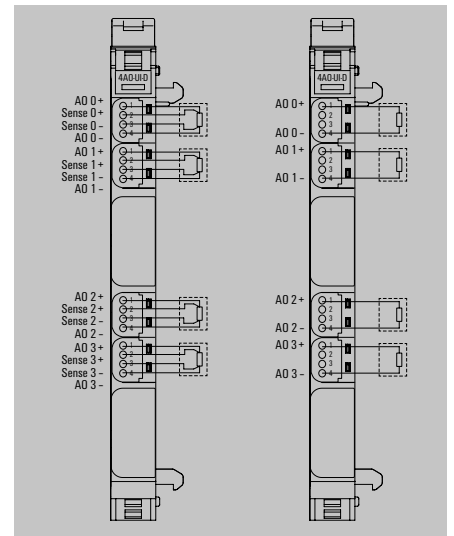
Accessories

Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
*3) HD-Plug	8	1469340000
*4) Stripping tool	1	9202210000
*5) Pressing tool	1	1525820000
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		
Electronics module	1	1515480000
Basic module	5	1350930000
Plug-in connector unit	5	1531810000
Note		
*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

UR20-4AO-UI-16-DIAG-HD



Note: Please order connector separately



Type	Qty.	Order No.
UR20-4AO-UI-16-DIAG-HD	1	1506930000

Type	Qty.	Order No.
KOSM BHZ5 00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1506930000-S	1	1515480000
UR20-BM-SP	5	1350930000
UR20-PK-1506930000-SP	5	1531810000

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508



Let's connect.

PF-I

- Power supply in input current path
- Power supply current 10 A
- Integrated diagnosis display

UR20-PF-I

Technical data
Supply

Voltage supply for inputs
 Maximum feed current for input modules
 Current consumption (I_{IN} in the respective power segment)

24 V DC +20 % / -15 %
 10 A
 10 mA

General data

Weight
 Dimensions (H/W/D)

76 g
 120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data
Module variants

Power supply module

Type	Qty.	Order No.
UR20-PF-I	1	1334710000

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

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000

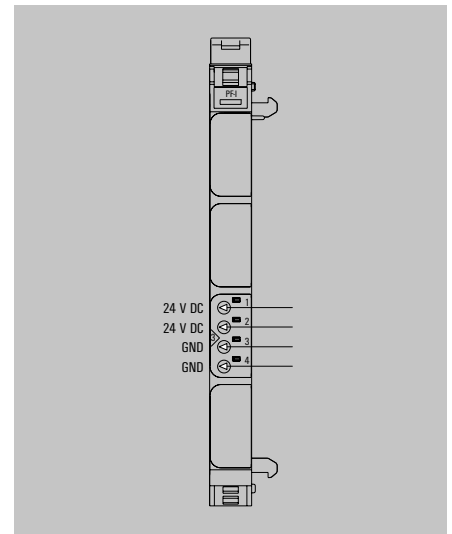
Replacement parts

Electronics module
 Basic module
 Plug-in connector unit

UR20-EM-1334710000-SP	1	1347380000
UR20-BM-PF+SP	5	1350940000
UR20-PK-1334710000-SP	5	1346460000

Note

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334710000



Let's connect.

PF-0

- Power supply in output current path
- Power supply current 10 A
- Integrated diagnosis display

UR20-PF-0



Technical data

Supply	
Voltage supply for outputs	24 V DC +20 % / -15 %
Maximum feed current for output modules	10 A
Current consumption (I _{OUT} in the respective power segment)	10 mA
General data	
Weight	76 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants	
Power supply module	

Type	Qty.	Order No.
UR20-PF-0	1	1334740000

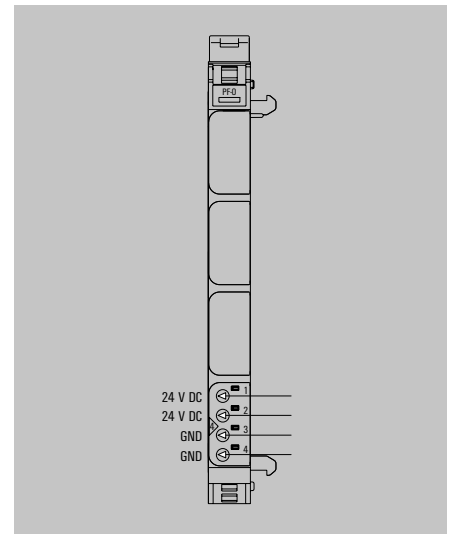
Accessories

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		

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts			
Electronics module	UR20-EM-1334740000-SP	1	1347420000
Basic module	UR20-BM-PF-0-SP	5	1350950000
Plug-in connector unit	UR20-PK-1334740000-SP	5	1346480000
Note			

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334740000



Let's connect.

PF-0-1DI-SIL

- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-0-1DI-SIL



Technical data

System data
Interface
Transmission rate of system bus
Safety-related data
Achievable safety standard
Level of diagnostic coverage
MTTF _a
SFF
HFT
Supply
Supply voltage for system and inputs
Supply voltage for outputs
Maximum feed current for input modules
Current consumption (internal)
Digital inputs
Wire breakage detection
Short-circuit detection
General data
Weight
Dimensions (H/W/D)

u-remote system bus	48 Mbit/s
IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e	96.64 %
> 100 years (PFH = 6.27 * 10 ⁻⁹ 1/h)	98.58 %
1	
24 V DC +20 % / -15 % via the system bus	8 A
24 V DC +20 % / -15 %	< 45 mA
yes	yes
yes	80 g
	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants
Safety module, 1 digital input

Type	Qty.	Order No.
UR20-PF-0-1DI-SIL	1	1335030000

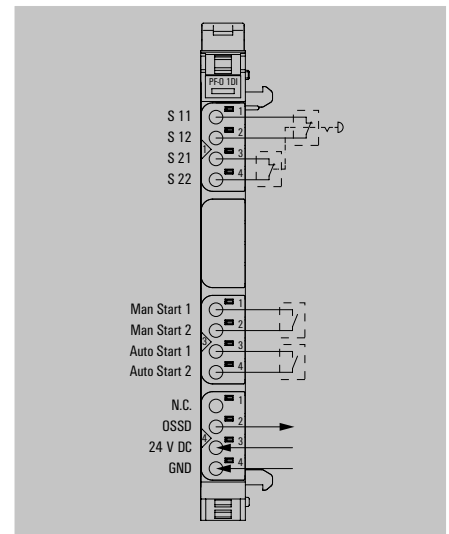
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

Replacement parts
Electronics module
Basic module
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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1335030000-SP	1	1347520000
UR20-BM-SIL-SP	5	1350970000
UR20-PK-1335030000-SP	5	1346560000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

Technical data
 Machinery
 Process
 Energy
 Transportation
 Device Manufacturers

PF-0-2DI-SIL

- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-0-2DI-SIL



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Safety-related data	
Achievable safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e
Level of diagnostic coverage	96.64 %
MTTF _a	> 100 years (PFH = 6.27 * 10 ⁻⁹ 1/h)
SFF	98.58 %
HFT	1
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 % via the system bus
Supply voltage for outputs	24 V DC +20 % / -15 %
Maximum feed current for input modules	8 A
Current consumption (internal)	< 45 mA
Digital inputs	
Wire breakage detection	yes
Short-circuit detection	yes
General data	
Weight	82 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

System data		
Interface	u-remote system bus	
Transmission rate of system bus	48 Mbit/s	
Safety-related data		
Achievable safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e	
Level of diagnostic coverage	96.64 %	
MTTF _a	> 100 years (PFH = 6.27 * 10 ⁻⁹ 1/h)	
SFF	98.58 %	
HFT	1	
Supply		
Supply voltage for system and inputs	24 V DC +20 % / -15 % via the system bus	
Supply voltage for outputs	24 V DC +20 % / -15 %	
Maximum feed current for input modules	8 A	
Current consumption (internal)	< 45 mA	
Digital inputs		
Wire breakage detection	yes	
Short-circuit detection	yes	
General data		
Weight	82 g	
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm	

Ordering data

Module variants	
Safety module, 2 digital inputs	

Type	Qty.	Order No.
UR20-PF-0-2DI-SIL	1	1335050000

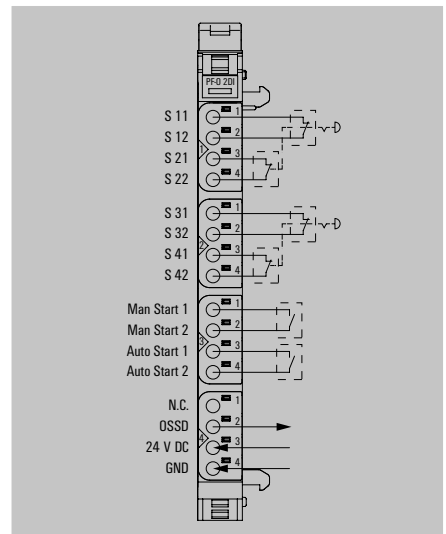
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

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	
Electronics module	
Basic module	
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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1335050000-SP	1	1347540000
UR20-BM-SIL-SP	5	1350970000
UR20-PK-1335050000-SP	5	1346570000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

PF-0-2DI-DELAY-SIL

- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Switch-off after adjustable delay
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-0-2DI-DELAY-SIL



Technical data

System data

Interface
Transmission rate of system bus

Safety-related data

Achievable safety standard
Level of diagnostic coverage
MTTF_a
SFF
HFT

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Maximum feed current for input modules
Current consumption (internal)

Digital inputs

Wire breakage detection
Short-circuit detection

General data

Weight
Dimensions (H/W/D)

u-remote system bus
48 Mbit/s

IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e
96.64 %
> 100 years (PFH = 6.27 * 10⁻⁹ 1/h)
98.58 %
1

24 V DC +20 % / -15 % via the system bus
24 V DC +20 % / -15 %
8 A
< 45 mA

yes
yes

84 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants

Safety module, 2 digital inputs, delayed

Type	Qty.	Order No.
UR20-PF-0-2DI-DELAY-SIL	1	1335040000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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

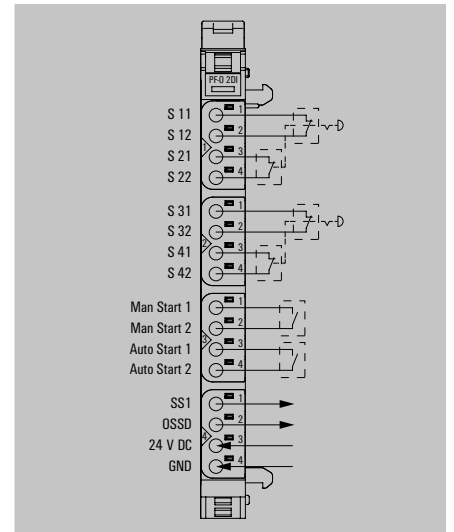
- Electronics module
- Basic module
- Plug-in connector unit

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1335040000-SP	1	1347530000
UR20-BM-SIL-SP	5	1350970000
UR20-PK-1335040000-SP	5	1484100000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

AUX

- Distribution of the various potentials
- Actuator and sensor supply
- 16 "PUSH IN" potential contacts

UR20-16AUX



Technical data

Supply	
Voltage supply	
General data	
Weight	
Dimensions (H/W/D)	

Voltage supply	24 V DC +20 % / - 15 % via Input- or output path / FE
Weight	84 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants	
Potential distribution module	

Type	Qty.	Order No.
UR20-16AUX-I	1	1334770000
UR20-16AUX-O	1	1334780000
UR20-16AUX-FE	1	1334790000
UR20-16AUX-GND-I	1	1334800000
UR20-16AUX-GND-O	1	1334810000

Accessories

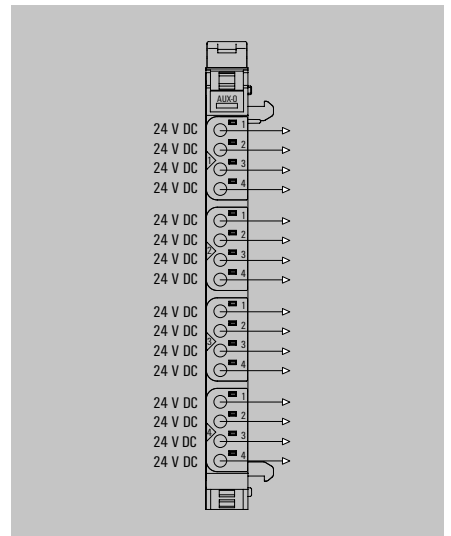
Replacement parts	
Electronics module	

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000

Replacement parts	
Electronics module	
Basic module	
Plug-in connector unit	
Note	

UR20-EM-1334770000-SP	1	1347450000
UR20-EM-1334780000-SP	1	1347470000
UR20-EM-1334790000-SP	1	1347480000
UR20-EM-1334800000-SP	1	1347490000
UR20-EM-1334810000-SP	1	1347500000
UR20-BM-SP	5	1350930000
UR20-PK-1334770000-SP	5	1346450000
UR20-PK-1334790000-SP	5	1346490000
UR20-PK-1334800000-SP	5	1346470000
UR20-PK-1334780000-SP	5	1484080000
UR20-PK-1334810000-SP	5	1484090000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334770000
MSIP	MSIP-REM-WMG-1334780000
MSIP	MSIP-REM-WMG-1334790000
MSIP	MSIP-REM-WMG-1334800000
MSIP	MSIP-REM-WMG-1334810000

16AUX-I



Let's connect.

16AUX-O



Let's connect.

16AUX-FE



Let's connect.

16AUX-GND-I



Let's connect.

16AUX GND-O



Let's connect.

Empty module

- Forwarding of system bus and voltage paths
- Space for subsequent expansion
- Basis for all I/O modules

Technical data

General data

Weight	70 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants

Empty module

UR20-ES



Type	Qty.	Order No.
UR20-ES	1	1315770000

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

Electronics module
Basic module
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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1315770000-SP	1	1347370000
UR20-BM-SP	5	1350930000
UR20-PK-1315770000-SP	5	1346510000

*¹⁾ 1 roll = 1000 label = 1 Qty.
*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315770000



Let's connect.

Termination kit

- Includes an end plate and two end brackets

UR20-EBK



Ordering data

Module variants

Termination kit

Type	Qty.	Order No.
UR20-EBK-ACC	5	1346610000

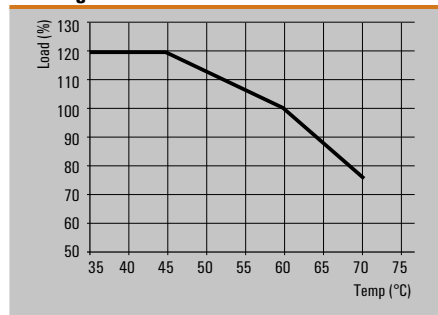




connectPower
PROmax



Derating curve



Max. limiting average on state current [A]

Typ\Temp.	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
1ph 24 V / 3 A	3,6	3,3	3,2	3	2,6	2,2
1ph 24 V / 5 A	6	5,7	5,4	5	4,4	3,8
1ph 24 V / 7,5 A	9	8,5	8	7,5	6,6	5,6
1ph 24 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 24 V / 20 A	24	22,6	21,4	20	17,6	15
1ph 24 V / 40 A	48	45,2	42,8	40	35,2	30
1ph 5 V / 14 A	16,8	15,8	15	14	12,3	10,5
1ph 12 V / 6 A	7,2	6,8	6,4	6	5,3	4,5
1ph 12 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 48 V / 5 A	6	5,7	5,4	5	4,4	3,8
1ph 48 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 48 V / 20 A	24	22,6	21,4	20	17,6	15
3ph 24 V / 5 A	6	5,7	5,4	5	4,4	3,8
3ph 24 V / 10 A	12	11,3	10,7	10	8,8	7,5
3ph 24 V / 20 A	24	22,6	21,4	20	17,6	15
3ph 24 V / 40 A	48	45,2	42,8	40	35,2	30

Technical data

General technical data	
Current limiting	> 120 % I _N
Insulation voltage input earth	3.5 kV
Insulation voltage output earth	0.5 kV
Insulation voltage input/output	4 kV
Earth leakage current	3.5 mA
Series switching capability	Yes
Ambient temp. operating / storage temperature / Start up	-25 °C...+70 °C / -40 °C...+85 °C / ≥ -40 °C
Humidity at operating temperature	5...95 %, no condensation
Class of protection / Pollution degree	I / 2
MTBF	>500,000h (25°C, IEC 61709)
Housing version	Metal, corrosion resistant
Status indication	LED red/green and relay (≥21.6 V DC LED green, relay on/ ≤20.6 LED red, relay off)
Mounting position, installation notice	Horizontal on TS35 mounting rail, with 50 mm of clearance at top and bottom for air circulation. Can be mounted side by side with no space in between.
EMC / shock / vibration	
Noise immunity tests acc. to	EN55024; EN55022; IEC61000-3-2,3; IEC61000-4-2,-3,-4,-5,-6,-8,-11
Resistance against vibration and shock	2.3 g / 30 g in all directions
Electrical safety (applied standards)	
Electrical equipment of machines	Acc. to EN60204
Safety transformers for switched-mode power units	Acc. to EN61558-2-16
Machinery with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204, IEC61204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

Technical data

Machinery

Process

Energy

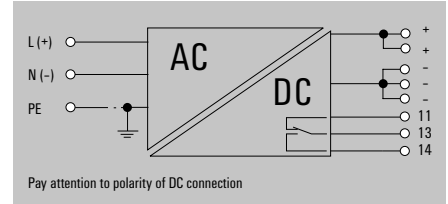
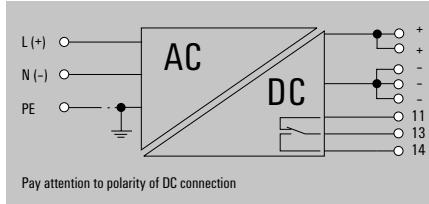
Transportation

Device
Manufacturers

connectPower PROmax

PRO MAX 72W 24V 3A

PRO MAX 120W 24V 5A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	3 A @ 60 °C
Continuous output current @ U _{Rated}	3,6 A @ 45°C, 2,25 A @ 70°C
Power boost @ U _{Rated}	3,6 A (1 min), 4,5 A (4s)
Pulsed current capacity @ U _{Rated}	9 A (2ms)

General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 32 / 130 mm
Weight	0.6 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Ordering data

Type	Qty.	Order No.
PRO MAX 72W 24V 3A	1	1478100000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Input		Output	
Screw connection	Screw connection		
3 for L/N/PE	8 (++,--,11,13,14)		
0.18 / 6	0.5 / 6		
0.22 / 4	0.5 / 4		
26 / 10	26 / 12		
0.8 x 4.0, PZ 1	0.6 x 3.5		

Input		Output	
Screw connection	Screw connection		
3 for L/N/PE	8 (++,--,11,13,14)		
0.18 / 6	0.5 / 6		
0.22 / 4	0.5 / 4		
26 / 10	26 / 12		
0.8 x 4.0, PZ 1	0.6 x 3.5		

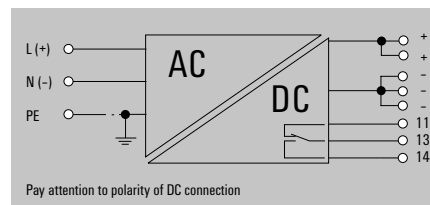
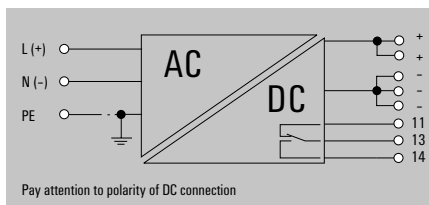
Type	Qty.	Order No.
PRO MAX 120W 24V 5A	1	1478110000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

connectPower PROmax

PRO MAX 180W 24V 7,5A

PRO MAX 240W 24V 10A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 2 A @ 115 V AC
DC current consumption	1 A @ 370 VDC / 2 A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker

Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 2 A @ 115 V AC
DC current consumption	1 A @ 370 VDC / 2 A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker

Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1.5 A @ 230 V AC / 3 A @ 115 V AC
DC current consumption	1.5 A @ 370 VDC / 3 A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	7.5 A @ 60 °C
Continuous output current @ U _{Rated}	9 A @ 45°C, 5,6 A @ 70°C
Power boost @ U _{Rated}	9 A (1 min), 11.25 A (4s)
Pulsed current capacity @ U _{Rated}	22,5 A (2ms)

Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	7.5 A @ 60 °C
Continuous output current @ U _{Rated}	9 A @ 45°C, 5,6 A @ 70°C
Power boost @ U _{Rated}	9 A (1 min), 11.25 A (4s)
Pulsed current capacity @ U _{Rated}	22,5 A (2ms)

Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	10 A @ 60 °C
Continuous output current @ U _{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Power boost @ U _{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U _{Rated}	30 A (2ms)

General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 50 / 130 mm
Weight	0.9 kg

Degree of efficiency	91.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 50 / 130 mm
Weight	0.9 kg

Degree of efficiency	91.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Weight	1 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM
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Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM
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Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Connection system	Screw connection
Number of terminals	8 (++,--,11,13,14)
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Input	Output
Connection system	Screw connection
Number of terminals	8 (++,--,11,13,14)
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
PRO MAX 180W 24V 7,5A	1	1478120000

Type	Qty.	Order No.
PRO MAX 180W 24V 7,5A	1	1478120000

Type	Qty.	Order No.
PRO MAX 240W 24V 10A	1	1478130000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

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Accessories

Note

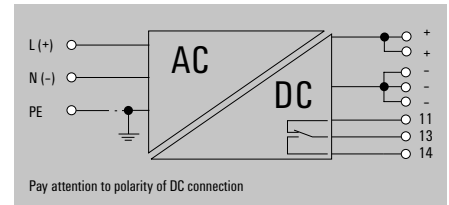
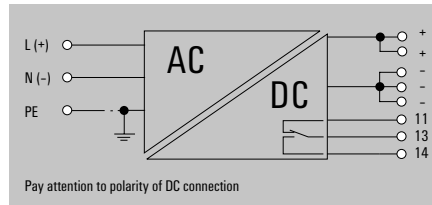
Note

Note

connectPower PROmax

PRO MAX 480W 24V 20A

PRO MAX 960W 24V 40A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	20 A @ 60 °C
Continuous output current @ U _{Rated}	24 A @ 45°C, 15 A @ 70°C
Power boost @ U _{Rated}	24 A (1 min), 30 A (4s), 100...240 V AC
Pulsed current capacity @ U _{Rated}	60 A (2ms)
General data	
Degree of efficiency	92 %
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 90 / 130 mm
Weight	1.95 kg
Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Ordering data

Type	Qty.	Order No.
PRO MAX 480W 24V 20A	1	1478140000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	40 A @ 60 °C
Continuous output current @ U _{Rated}	48 A @ 45°C, 30 A @ 70°C
Power boost @ U _{Rated}	48 A (1 min), 60 A (4s), 100...240 V AC
Pulsed current capacity @ U _{Rated}	120 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Weight	3.4 kg
Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,--,11,13,14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Type	Qty.	Order No.
PRO MAX 960W 24V 40A	1	1478150000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	40 A @ 60 °C
Continuous output current @ U _{Rated}	48 A @ 45°C, 30 A @ 70°C
Power boost @ U _{Rated}	48 A (1 min), 60 A (4s), 100...240 V AC
Pulsed current capacity @ U _{Rated}	120 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Weight	3.4 kg
Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,--,11,13,14)
0.18 / 6	0.5 / 16
0.22 / 4	0.5 / 16
26 / 10	22 / 8
0.8 x 4.0, PZ 1	1.0 x 5.5

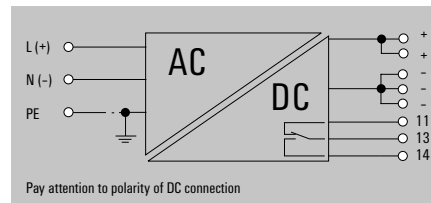
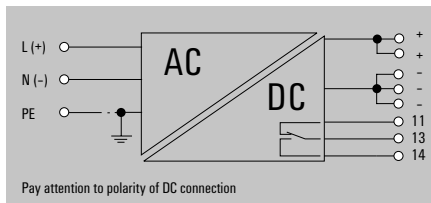
Type	Qty.	Order No.
PRO MAX 960W 24V 40A	1	1478150000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

connectPower PROmax

PRO MAX 70W 5V 14A

PRO MAX 72W 12V 6A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker

Rated output voltage	5 V DC
Output voltage	4.5...7 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	14 A @ 60°C
Continuous output current @ U _{Rated}	16,8 A @ 45°C, 10,5 A @ 70°C
Power boost @ U _{Rated}	16,8 A (1 min), 21 A (4s)
Pulsed current capacity @ U _{Rated}	42 A (2ms)

Rated output voltage	12 V DC ± 1%
Output voltage	10...15 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	6 A @ 60°C
Continuous output current @ U _{Rated}	7.2 A @ 45°C, 4.5 A @ 70°C
Power boost @ U _{Rated}	7.2 A (1 min), 9 A (4s)
Pulsed current capacity @ U _{Rated}	18 A (2ms)

General data	
Degree of efficiency	86%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	> 7.5 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 32 / 130 mm
Weight	0.6 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,-,11,13,14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,-,11,13,14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Ordering data

Type	Qty.	Order No.
PRO MAX 70W 5V 14A	1	1478210000

Type	Qty.	Order No.
PRO MAX 72W 12V 6A	1	1478220000

Type	Qty.	Order No.
PRO MAX 72W 12V 6A	1	1478220000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

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Accessories

Note

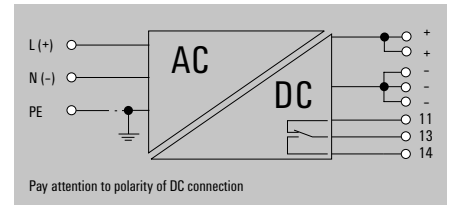
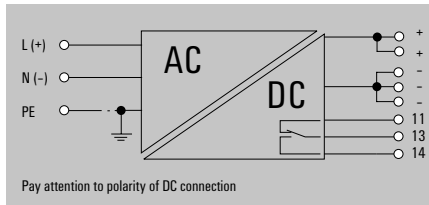
Note

Note

connectPower PROmax

PRO MAX 120W 12V 10A

PRO MAX 240W 48V 5A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker

Output	
Rated output voltage	12 V DC ± 1 %
Output voltage	10...15 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	10 A @ 60 °C
Continuous output current @ U _{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Power boost @ U _{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U _{Rated}	30 A (2ms)

General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	> 18 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Weight	0.8 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Ordering data

Type	Qty.	Order No.
PRO MAX 120W 12V 10A	1	1478230000

Note	
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.	

Accessories

Note	

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker

Output	
Rated output voltage	48 V DC ± 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	5 A @ 60 °C
Continuous output current @ U _{Rated}	6.0 A @ 45 °C, 3,75 A @ 70 °C
Power boost @ U _{Rated}	5 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U _{Rated}	15 A (2ms)

General data	
Degree of efficiency	92.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Weight	1 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Type	Qty.	Order No.
PRO MAX 240W 48V 5A	1	1478240000

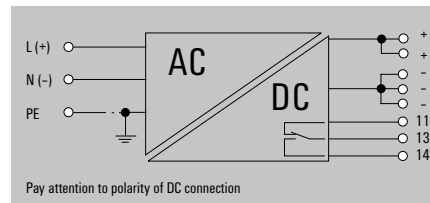
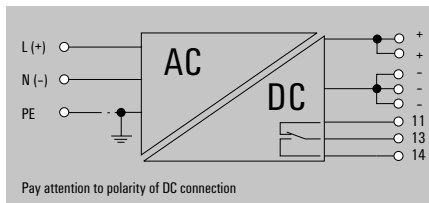
Note	
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.	

Note	

connectPower PROmax

PRO MAX 480W 48V 10A

PRO MAX 960W 48V 20A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker

Rated output voltage	48 V DC ± 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	10 A @ 60 °C
Continuous output current @ U _{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Power boost @ U _{Rated}	12 A (1 min), 15 A (4s), 100...240 V AC
Pulsed current capacity @ U _{Rated}	60 A (2ms)

Rated output voltage	48 V DC ± 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	20 A @ 60 °C
Continuous output current @ U _{Rated}	24 A @ 45°C, 15 A @ 70°C
Power boost @ U _{Rated}	24 A (1 min), 30 A (4s), 100...240 V AC
Pulsed current capacity @ U _{Rated}	60 A (2ms)

General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 90 / 130 mm
Weight	1.95 kg

Degree of efficiency	94%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 140 / 130 mm
Weight	3.4 kg

Degree of efficiency	94%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 140 / 130 mm
Weight	3.4 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM
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Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,-,11,13,14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,-,11,13,14)
0.18 / 6	0.5 / 16
0.22 / 4	0.5 / 16
26 / 10	22 / 8
0.8 x 4.0, PZ 1	1.0 x 5.5

Ordering data

Type	Qty.	Order No.
PRO MAX 480W 48V 10A	1	1478250000

Type	Qty.	Order No.
PRO MAX 480W 48V 10A	1	1478250000

Type	Qty.	Order No.
PRO MAX 960W 48V 20A	1	1478270000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

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The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

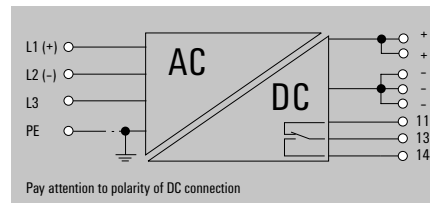
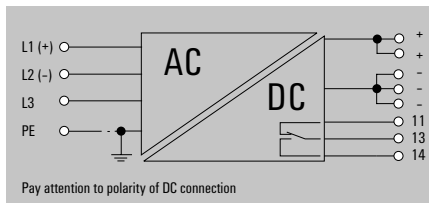
Note

Note

connectPower PROmax

PRO MAX3 120W 24V 5A

PRO MAX3 240W 24V 10A



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,28A @ 3*500 VAC / 0,3A @ 3*400 VAC
DC current consumption	0,18 A @ 800 V DC / 0,3 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	2...3 A, char. C circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	5 A @ 60 °C
Continuous output current @ U _{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Power boost @ U _{Rated}	6 A (1 min), 7,5 A (4s), 400...500 V AC
Pulsed current capacity @ U _{Rated}	15 A (2ms)

General data	
Degree of efficiency	90%
Power factor (approx.)	> 0.50 @ 3*400 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Weight	0.65 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
PRO MAX3 120W 24V 5A	1	1478170000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,28A @ 3*500 VAC / 0,3A @ 3*400 VAC
DC current consumption	0,18 A @ 800 V DC / 0,3 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	2...3 A, char. C circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	10 A @ 60 °C
Continuous output current @ U _{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Power boost @ U _{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U _{Rated}	30 A (2ms)

General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.85 @ 3*400 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Weight	1.3 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Type	Qty.	Order No.
PRO MAX3 240W 24V 10A	1	1478180000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,35A @ 3*500 VAC / 0,4A @ 3*400 VAC
DC current consumption	0,35 A @ 800 V DC / 0,6 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	10 A @ 60 °C
Continuous output current @ U _{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Power boost @ U _{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U _{Rated}	30 A (2ms)

General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.85 @ 3*400 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Weight	1.3 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.18 / 6 mm ²
Wire cross-section, flexible min/max	0.22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1

Type	Qty.	Order No.
PRO MAX3 240W 24V 10A	1	1478180000

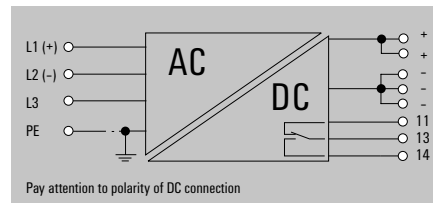
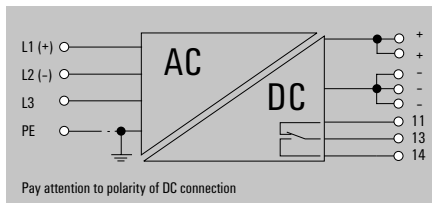
Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.



connectPower PROmax

PRO MAX3 480W 24V 20A

PRO MAX3 960W 24V 40A



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,7A @ 3*500 VAC / 0,85 @ 3*400 VAC
DC current consumption	0,7 A @ 800 V DC / 1,2 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,7A @ 3*500 VAC / 0,85 @ 3*400 VAC
DC current consumption	0,7 A @ 800 V DC / 1,2 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	1,3A @ 3*500 VAC / 1,6A @ 3*400 VAC
DC current consumption	1,4 A @ 800 V DC / 2,4 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6...8 A, char. C circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22,5...29,5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	20 A @ 60 °C
Continuous output current @ U _{Rated}	24 A @ 45°C, 15 A @ 70°C
Power boost @ U _{Rated}	24 A (1 min), 30 A (4s)
Pulsed current capacity @ U _{Rated}	60 A (2ms)

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22,5...29,5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	20 A @ 60 °C
Continuous output current @ U _{Rated}	24 A @ 45°C, 15 A @ 70°C
Power boost @ U _{Rated}	24 A (1 min), 30 A (4s)
Pulsed current capacity @ U _{Rated}	60 A (2ms)

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22,5...29,5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	40 A @ 60 °C
Continuous output current @ U _{Rated}	48 A @ 45°C, 30 A @ 70°C
Power boost @ U _{Rated}	48 A (1 min), 60 A (4s), 400...500 V AC
Pulsed current capacity @ U _{Rated}	120 A (2ms)

General data	
Degree of efficiency	91,5%
Power factor (approx.)	> 0,85 @ 3*400 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 70 / 130 mm
Weight	1,3 kg

General data	
Degree of efficiency	91,5%
Power factor (approx.)	> 0,85 @ 3*400 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 70 / 130 mm
Weight	1,3 kg

General data	
Degree of efficiency	93,5%
Power factor (approx.)	> 0,75 @ 3*400 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Weight	3,1 kg

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Approvals	
Approvals	CE; cULus; cURus; EAC; TÜV; GL; SEMI F47; Cl.1 Div.2; RCM

Connection data	
Connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0,18 / 6 mm ²
Wire cross-section, flexible min/max	0,22 / 4 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0,8 x 4,0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++,-,11,13,14)
0,18 / 6	0,18 / 6
0,22 / 4	0,22 / 4
26 / 10	26 / 10
0,8 x 4,0, PZ 1	0,8 x 4,0, PZ 1

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++,-,11,13,14)
0,18 / 6	0,5 / 16
0,22 / 4	0,5 / 16
26 / 10	22 / 8
0,8 x 4,0, PZ 1	1,0 x 5,5

Ordering data

Type	Qty.	Order No.
PRO MAX3 480W 24V 20A	1	1478190000

Type	Qty.	Order No.
PRO MAX3 480W 24V 20A	1	1478190000

Type	Qty.	Order No.
PRO MAX3 960W 24V 40A	1	1478200000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

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The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Note

Note



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Gigabit Industrial Security Router

- High data throughput through Gigabit Ethernet interfaces
- Integrated stateful packet inspection firewall with flexible 2-way packet filtering
- NAT masquerading, 1:1 network mapping and port forwarding
- Remote access via VPN (OpenVPN, IPsec, L2TP)
- Key switch function for activation/deactivation of WAN/VPN connection
- Variant with integrated 3G/UMTS modem for high-speed, Internet-based mobile communications access (1345250000, IE-SR-2GT-UMTS/3G)
- Variant without VPN function for NAT and security applications (1489940000, IE-SR-2GT-LAN-FN)
- Back-up and recovery of device configuration using SIM card



Technical data

Operation modes	
IP Router	Static or dynamic routing, supporting RIPv2 / OSPF
Transparent Bridge	2-port switch with additional layer-2 filter
Network Services	
	<ul style="list-style-type: none"> • DHCP server / DHCP relay • DNS relay • NTP client • DynDNS (DHCP client by RFC 2136)
Firewall	
	<ul style="list-style-type: none"> • IPv4 Stateful inspection Firewall (incoming/outgoing) • NAT-Masquerading, 1:1 NAT, Portforwarding • Layer-2/3-Filter (VLAN ID, VLAN, QoS tag, MAC address, Ethertype frame) • "Auto learning" feature to create packet filter rules (analysis of network traffic) • Layer 2/3-based packet prioritization (Ethernet frame, IP header, VLAN tag)
VPN functionality*	
OpenVPN	<ul style="list-style-type: none"> • Configurable as OpenVPN server or client (Layer 2 and Layer 3) • Authentication with X.509 Certificates • Tunnel support via HTTP proxy • Maximum of 10 different client or server configurations • Unlimited number of client connections in server mode
IPsec	<ul style="list-style-type: none"> • Can be configured as an IPsec server or client • PSK authentication (user ID, password) or X.509 certificates • Hardware-based encryption for faster data throughput • A maximum of 64 simultaneous connections (subnet to subnet or as an IPsec server) • Encryption algorithms DES-56, 3DES-168, AES 128, AES 192, AES-256
Management	
	<ul style="list-style-type: none"> • Configuration via WEB interface (HTTP / HTTPS) • Web interface in German or English • Configuration support through detailed help information (tooltip) • Configurable multi-user access with definable rights mask • Support of SNMP v1/v2/v3, event log / syslog
Miscellaneous	
Modbus/TCP	Integrated Modbus TCP Server for status queries, and software-based activation / de-activation of VPN connections
Diagnosis	"Remote Capture" feature for network diagnostics via a connected PC (Wireshark)
Monitoring	Client Monitoring (via ICMP) with alarm function in case of error
DSL and UMTS/HSPA	
DSL	Connection to the DSL modem via LAN or WAN port Free configuration of the PPPoE login
DynDNS	Support automatic registration
UMTS/3G	<ul style="list-style-type: none"> • Built-in quad-band UMTS / HSPA+ modem (only variant IE-SR-2GT-UMTS/3G) • Peak Downlink 21.1 Mbps, Peak Uplink 5.76 Mbps • GSM/GPRS/EDGE: 850 Mhz, 900 Mhz, 1800 Mhz, 1900 Mhz • UMTS/WCDMA/HSDPA/HSUPA: 850 Mhz, 900 Mhz, 1900 Mhz, 2100 Mhz • FCC, CE, IC, NCC, PTCRB, Bell, AT&T

* is not supported by the model IE-SR-2GT-LAN-FN

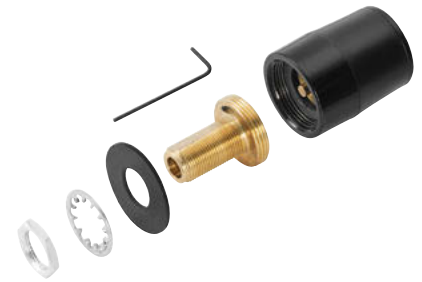
Interfaces		
RJ45 ports	2x10/100/1000BaseT(X)	
USB port	Option for future expansion	
SCM card reader	Save and restore of the configuration using a smart card (memory chip)	
LED indicators		
	Signaling states for power, status, cut, alert, active VPN connection and an active UMTS connection	
Digital outputs		
	<ul style="list-style-type: none"> • "Alarm" -> Indicates a configurable network status or error (24 V out) • "VPN-active" -> Indicates an active VPN connection (24 V out)* 	
Digital inputs		
	<ul style="list-style-type: none"> • „Cut“ -> Disconnects physically (link down) the WAN port (24 V) • "VPN-initiate" -> Enables a pre-configured VPN connection (24 V)* 	
Reset button	Restoring the factory default	
Power Requirements		
Input Voltage	1x 24 V DC (7 to 36 volts)	
Current consumption	max. 600 mA @ 24 V DC	
Technical data (housing)		
Housing	Metal, IP 20 protection	
Dimensions (W x H x D)	35 x 159 x 134 mm (without antenna) 35 x 255 x 134 mm (with UMTS antenna)	
Installation	TS 35	
Environmental Limits		
Operating temperature	-20 °C to +70 °C	
Storage Temperature	-20 °C to +85 °C	
Ambient humidity	6 to 90 % not condensing	
Approvals		
Security	UL 508	
EMC	EN301 489-1/7-24, FCC Part 15 Class A, EN 55022 Class A, EN61000-4-2 (ESD), EN61000-4-3 (RS) EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS)	
Shock	DIN EN 60068-2-27	
Vibration	DIN EN 60068-2-6	
Warranty		
Warranty Period	3 years	
Ordering data		
Models	Type	Order No.
Security/NAT/VPN Router	IE-SR-2GT-LAN	1345270000
Security/NAT Router	IE-SR-2GT-LAN-FN	1489940000
Security/NAT/VPN Router with integrated UMTS/3G modem	IE-SR-2GT-UMTS/3G	1345250000

Mobile radio antenna and connection cables, see following pages

Mobile radio antenna

IE-ANT-3G-806-2170-2-NF

IE-ANT-3G-806-2500-4-NF



Technical data

Frequency range (Mhz)
Standing wave ratio
Antenna gain
Radiation
Impedance
Polarisation
Connector type
Connector position
Composite power max.

Band 1: 806-960 (MHz)
Band 2: 1710-2170 (MHz)
< 2,5
Band 1: 1 dBi
Band 2: 2dBi
Omnidirectional
50 ohm
Vertical linear
1 x N-type female
Bottom
25 W

Band 1: 806-960 (MHz)
Band 2: 1710-2500 (MHz)
2
Band 1: 3 dBi
Band 2: 4 dBi
Omnidirectional
50 ohm
Vertical linear
1 x N-type female
Bottom
100 W

Mechanical specifications

Dimensions
Weight

200 x 22 mm (height x diameter)
430 g

48 x 36 mm (height x diameter)
180 g

Environmental Limits

Area of application
Operating temperature
Storage Temperature
IP protection class

for indoor and outdoor use
- 40 to 85 °C
- 40 to 85 °C
IP 54

for indoor and outdoor use
- 40 to 70 °C
- 40 to 70 °C
IP 66

Enclosure material

Radome colour
Radome material

black
Plastic

black
Plastic

Ordering data

Models
Omni-directional antenna, mobile radio (GSM / UMTS), gain up to 2 dBi
Omni-directional antenna, mobile radio (GSM / UMTS), gain up to 4 dBi

Type	Operating temperature	Order No.
IE-ANT-3G-806-2170-2-NF	- 40 to 85 °C	1491160000

Type	Operating temperature	Order No.
IE-ANT-3G-806-2500-4-NF	- 40 to 70 °C	1367120000

Note

Included in delivery: 1 x antenna, 1 x mounting bracket, 2 x clamps for pole mounting

Included in delivery: 1 x antenna, 1x screw connection and mounting materials for vandal-proof installation

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Antenna cable (2 m, 4 m, 6 m)

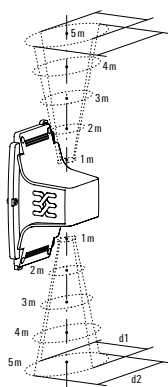


Technical data

General data		
Impedance	50 Ohm	
Min. bending radius (repeated)	50,8 mm	
Min. bending radius (once)	12,7 mm	
Connector type	Connection 1: N-type (male) Connection 2: SMA (male)	
Environmental Limits		
Operating temperature	-40 to 85 °C	
UV resistance	Yes	
Material data		
Jacket	Polyethylene	
Outside diameter	4,95 mm	
Ordering data		
Models	Type	Order No.
Antenna cable, 2m long, N-type (male) -> SMA (male)	IE-CC-NM-SMAM-2M	1491180000
Antenna cable, 4m long, N-type (male) -> SMA (male)	IE-CC-NM-SMAM-4M	1491190000
Antenna cable, 6m long, N-type (male) -> SMA (male)	IE-CC-NM-SMAM-6M	1491210000
Note		



Directional lighting for illuminating the tower



H [m]	E [lx] 0°	E [lx] θ	d1 [m]	d2 [m]
1,0	373	155	0,4	0,7
2,0	93	39	0,8	1,5
3,0	41	17	1,2	2,2
4,0	23	11	1,6	3,0
5,0	15	6	2,0	3,7



FP Duo LED DC HQ2.5
FP Duo LED DC HQ6

Technical data

Rated data to EN 60598-1	
Rated voltage	24...120 V DC
Variable-voltage input	21.6 V...144 V DC/reverse polarity protected
Power rating/Power loss	5 W
Inrush current	0.2 A (24 V DC)
General data	
Overvoltage category pollution degree	II/2
Elevation	≤ 3,000 m
Insulation voltage	< 500 V (housing/PE)
Mounting position	any
Protection class to IEC 60529	IP 54
Protection class	2
Ambient temperature (operational/storage)	-40 °C...+70 °C / -40 °C...+85 °C
Halogen-free /silicone-free	no (PVC conductor)/yes
LED operating life	> 50,000 hrs
Resistance to vibration, sinusoidal, stationary	EN 60721-3-3, Class 3M3
Amplitude deflection	1.5 mm (2-9 Hz)
Amplitude acceleration	5 m/s ² (0.5 G) (at 9-200 Hz)
Resistance to shock, portable	EN 60721-3-3, Class 3M3
Peak acceleration, Typee L	70 m/s ² (7 G)
Short-circuit protection	intern
Light colour (CCT)	Cool White, 6,000 K
Light current	306.1 lm (both directions in total)
Efficiency class (to EU Ordinance No. 874/2012)	A+
EMC	
Noise emission	Acc. to EN 55015
Noise immunity tests	Acc. to EN 61547
Connection data	
Typee of connection	Plug-in connector with fixed number of poles, HQ 4/2
Line Typee	
Wire cross-section (connecting line)	0.5 mm ² ...2.5 mm ² (HQ 2.5) 1.5 mm ² ...6 mm ² (HQ 6)
Rated data to cULus	
Standard	UL 1598 (in preparation)
Fire specification to UL 94	V0

Ordering data		
Type	Qty.	Order No.
FP Duo LED DC HQ2.5	1	1488480000
FP Duo LED DC HQ6	1	1488490000
Accessories		
Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Ordering data

Accessories

Markers (self-adhesive)		
Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Ordering data		
Type	Qty.	Order No.
FP Duo LED DC HQ2.5	1	1488480000
FP Duo LED DC HQ6	1	1488490000
Accessories		
Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Technical data

Machinery

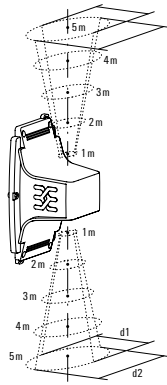
Process

Energy

Transportation

Device Manufacturers

Directional lighting for illuminating the tower



H [m]	E [lx] Ø°	E [lx] Ø	d1 [m]	d2 [m]
1,0	373	155	0,4	0,7
2,0	93	39	0,8	1,5
3,0	41	17	1,2	2,2
4,0	23	11	1,6	3,0
5,0	15	6	2,0	3,7

Technical data

Rated data to EN 60598-1

Rated voltage
Variable-voltage input
Power rating / Power loss
Inrush current

General data

Overvoltage category pollution degree
Elevation
Insulation voltage
Mounting position
Protection class to IEC 60529
Protection class
Ambient temperature (operational/storage)
Halogen-free /silicone-free
LED operating life
Resistance to vibration, sinusoidal, stationary
Amplitude deflection
Amplitude acceleration
Resistance to shock, portable
Peak acceleration, Typee L
Short-circuit protection
Light colour (CCT)
Light current
Efficiency class (to EU Ordinance No. 874/2012)

EMC

Noise emission
Noise immunity tests

Connection data

Type of connection
Line Typee
Wire cross-section (connecting line)

Rated data to cULus

Standard
Fire specification to UL 94

Ordering data

Accessories

Markers (self-adhesive)

FP Duo LED DC SA



24... 120 V DC
21.6 V... 144 V DC / reverse polarity protected
5 W
0.2 A (24 V DC)

II/2
≤ 3,000 m
< 500 V (housing / PE)
any
IP 54
2
-40 °C...+70 °C / -40 °C...+85 °C
no (PVC conductor) / yes
> 50,000 hrs.

EN 60721-3-3, Class 3M3
1.5 mm (2-9 Hz)
5 m/s² (0.5 G) (at 9-200 Hz)
EN 60721-3-3, Class 3M3
70 m/s² (7 G)

intern
Cool White, 6,000 K
306,1 lm (both directions in total)
A+

Acc. to EN 55015
Acc. to EN 61547

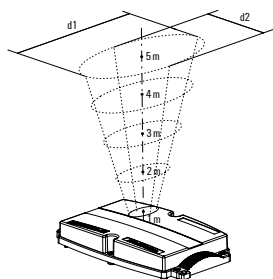
open conductor end / length 2 m
Heluwind WK 103w-Torsion 2 x 2,5 mm²

UL 1598 (in preparation)
V0

Type	Qty.	Order No.
FP Duo LED DC SA	1	1488500000

Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Optima surface illumination in DC environments



H [m]	E [lx] 0°	E [lx] θ	d1 [m]	d2 [m]
1,0	648	271	0,4	0,7
2,0	162	68	0,8	1,4
3,0	72	30	1,2	2,1
4,0	40	17	1,7	2,8
5,0	26	17	2,1	3,5

FP Mono LED K DC HQ2.5



FP Mono LED K DC SA



Technical data

Rated data to EN 60598-1	
Rated voltage	24...120 V DC
Variable-voltage input	21.6 V...144 V DC / reverse polarity protected
Power rating / power loss	5 W
Inrush current	0.2 A (24 V DC)
General data	
Overvoltage category pollution degree	II / 2
Elevation	≤ 3,000 m
Insulation voltage	< 500 V (housing / PE)
Mounting position	any
Protection class to IEC 60529	IP 54
Protection class	2
Ambient temperature (operational/storage)	-40 °C...+70 °C / -40 °C...+85 °C
Halogen-free / silicone-free	no (PVC conductor) / yes
LED operating life	> 50,000 hrs
Resistance to vibration, sinusoidal, stationary	EN 60721-3-3, Class 3M3
Amplitude deflection	1.5 mm (2-9 Hz)
Amplitude acceleration	5 m/s ² (0.5 G) (at 9-200 Hz)
Resistance to shock, portable	EN 60721-3-3, Class 3M3
Peak acceleration, type L	70 m/s ² (7 G)
Short-circuit protection	internal
Light colour (CCT)	Cool White, 6,000 K
Light current	275.1 lm
Efficiency class (to EU Ordinance No. 874/2012)	A
EMC	
Noise emission	Acc. to EN 55015
Noise immunity tests	Acc. to EN 61547
Connection data	
Type of connection	Plug-in connector with fixed number of poles, HQ 4/2
Line type	
Wire cross-section (connecting line)	0.5 mm ² ... 2.5 mm ²
Rated data to cULus	
Standard	UL 1598 (in preparation)
Fire specification to UL 94	V0

Rated data to EN 60598-1	
Rated voltage	24...120 V DC
Variable-voltage input	21.6 V...144 V DC / reverse polarity protected
Power rating / power loss	5 W
Inrush current	0.2 A (24 V DC)
General data	
Overvoltage category pollution degree	II / 2
Elevation	≤ 3,000 m
Insulation voltage	< 500 V (housing / PE)
Mounting position	any
Protection class to IEC 60529	IP 54
Protection class	2
Ambient temperature (operational/storage)	-40 °C...+70 °C / -40 °C...+85 °C
Halogen-free / silicone-free	no (PVC conductor) / yes
LED operating life	> 50,000 hrs
Resistance to vibration, sinusoidal, stationary	EN 60721-3-3, Class 3M3
Amplitude deflection	1.5 mm (2-9 Hz)
Amplitude acceleration	5 m/s ² (0.5 G) (at 9-200 Hz)
Resistance to shock, portable	EN 60721-3-3, Class 3M3
Peak acceleration, type L	70 m/s ² (7 G)
Short-circuit protection	internal
Light colour (CCT)	Cool White, 6,000 K
Light current	275.1 lm
Efficiency class (to EU Ordinance No. 874/2012)	A
EMC	
Noise emission	Acc. to EN 55015
Noise immunity tests	Acc. to EN 61547
Connection data	
Type of connection	Plug-in connector with fixed number of poles, HQ 4/2
Line type	
Wire cross-section (connecting line)	0.5 mm ² ... 2.5 mm ²
Rated data to cULus	
Standard	UL 1598 (in preparation)
Fire specification to UL 94	V0

Rated data to EN 60598-1	
Rated voltage	24...120 V DC
Variable-voltage input	21.6 V...144 V DC / reverse polarity protected
Power rating / power loss	5 W
Inrush current	0.2 A (24 V DC)
General data	
Overvoltage category pollution degree	II / 2
Elevation	≤ 3,000 m
Insulation voltage	< 500 V (housing / PE)
Mounting position	any
Protection class to IEC 60529	IP 54
Protection class	2
Ambient temperature (operational/storage)	-40 °C...+70 °C / -40 °C...+85 °C
Halogen-free / silicone-free	no (PVC conductor) / yes
LED operating life	> 50,000 hrs
Resistance to vibration, sinusoidal, stationary	EN 60721-3-3, Class 3M3
Amplitude deflection	1.5 mm (2-9 Hz)
Amplitude acceleration	5 m/s ² (0.5 G) (at 9-200 Hz)
Resistance to shock, portable	EN 60721-3-3, Class 3M3
Peak acceleration, type L	70 m/s ² (7 G)
Short-circuit protection	internal
Light colour (CCT)	Cool White, 6,000 K
Light current	275.1 lm
Efficiency class (to EU Ordinance No. 874/2012)	A
EMC	
Noise emission	Acc. to EN 55015
Noise immunity tests	Acc. to EN 61547
Connection data	
Type of connection	open conductor end / length 2 m
Line type	Heluwind WK 103w-Torsion 2 x 2.5 mm ²
Wire cross-section (connecting line)	
Rated data to cULus	
Standard	UL 1598 (in preparation)
Fire specification to UL 94	V0

Ordering data

Accessories		
Markers (self-adhesive)		
Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Accessories		
Markers (self-adhesive)		
Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Accessories		
Markers (self-adhesive)		
Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Technical data

Machinery

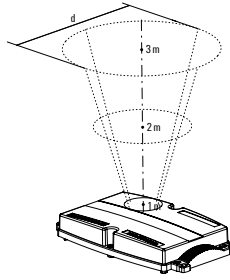
Process

Energy

Transportation

Device Manufacturers

Optima surface illumination in DC environments



H [m]	E [lx] 0°	E [lx] θ	d [m]
1,0	90	34	2,0
1,3	50	16	3,3
2,0	22	9	4,1
3,0	10	4	6,1

Technical data

Rated data to EN 60598-1

Rated voltage
Variable-voltage input
Power rating /power loss
Inrush current

General data

Overvoltage category pollution degree
Elevation
Insulation voltage
Mounting position
Protection class to IEC 60529
Protection class
Ambient temperature (operational/storage)
Halogen-free /silicone-free
LED operating life
Resistance to vibration, sinusoidal, stationary
Amplitude deflection
Amplitude acceleration
Resistance to shock, portable
Peak acceleration, type L
Short-circuit protection
Light colour (CCT)
Light current
Efficiency class (to EU Ordinance No. 874/2012)

EMC

Noise emission
Noise immunity tests

Connection data

Type of connection
Line type
Wire cross-section (connecting line)

Rated data to cULus

Standard
Fire specification to UL 94

Ordering data

Accessories

Markers (self-adhesive)

FP Mono LED DC HQ2.5



24...120 V DC
21.6 V...144 V DC / reverse polarity protected
5 W
0.2 A (24 V DC)

II/2
≤ 3,000 m
< 500 V (housing / PE)
any
IP 54
2
-40 °C...+70 °C / -40 °C...+85 °C
no (PVC conductor) /yes
> 50,000 hrs
EN 60721-3-3, Class 3M3
1.5 mm (2-9 Hz)
5 m/s ² (0.5 G) (at 9-200 Hz)
EN 60721-3-3, Class 3M3
70 m/s ² (7 G)
internal
Cool White, 6,000 K
226.2 lm
A

Acc. to EN 55015
Acc. to EN 61547

Plug-in connector with fixed number of poles, HQ 4/2

0.5 mm²... 2.5 mm²

UL 1598 (in preparation)
V0

Type	Qty.	Order No.
FP MONO LED DC HQ2.5	1	1488530000

Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

FP Mono LED DC SA



24...120 V DC
21.6 V...144 V DC / reverse polarity protected
5 W
0.2 A (24 V DC)

II/2
≤ 3,000 m
< 500 V (housing / PE)
any
IP 54
2
-40 °C...+70 °C / -40 °C...+85 °C
no (PVC conductor) /yes
> 50,000 hrs
EN 60721-3-3, Class 3M3
1.5 mm (2-9 Hz)
5 m/s ² (0.5 G) (at 9-200 Hz)
EN 60721-3-3, Class 3M3
70 m/s ² (7 G)
internal
Cool White, 6,000 K
226.2 lm
A

Acc. to EN 55015
Acc. to EN 61547

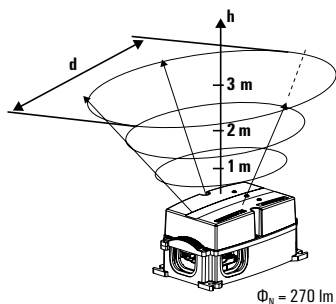
open conductor end /length 2 m
Heluwind WK 103w-Torsion 2 x 2.5 mm²

UL 1598 (in preparation)
V0

Type	Qty.	Order No.
FP MONO LED DC SA	1	1488520000

Type	Qty.	Order No.
THM MT30x 38/17	Reel	1011610000

Optimum surface illumination for AC and DC environments



h [m]	E [lx] 0°	d [m]	E [lx] θ
1,0	90	2,0	34
1,3	50	3,3	16
2,0	22	4,1	9
3,0	10	6,1	4

BG GHDE LED TL M4 PT6



Technical data

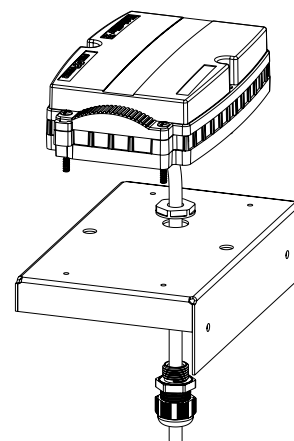
Rated data to EN 60598-1
Rated voltage
Variable-voltage input
Power rating /power loss
Inrush current
General data
Overvoltage category pollution degree
Elevation
Insulation voltage
Mounting position
Protection class to IEC 60529
Protection class
Ambient temperature (operational/storage)
Halogen-free /silicone-free
LED operating life
Resistance to vibration, sinusoidal, stationary
Amplitude deflection
Amplitude acceleration
Resistance to shock, portable
Peak acceleration, type L
Short-circuit protection
Circuit breaker
Light colour (CCT)
Light current
EMC
Noise emission
Noise immunity tests
Connection data
Type of connection
Line type
Note
Rated data to cULus
Standard
Fire specification to UL 94
Rated voltage

265 V
100...265 V DC + AC (45...65 Hz)
7 W / < 2 W
0.5 A / 0.1 ms
II / 2
≤ 3,000 m
< 500 V (housing / PE)
any
IP 65 when mounted
2
-40 °C...+60 °C / -40 °C...+85 °C
no (PVC conductor) /yes
> 50,000 hrs
EN 60721-3-3, Class 3M3
1.5 mm (2-9 Hz)
5 m/s² (0.5 G) (at 9-200 Hz)
EN 60721-3-3, Class 3M3
70 m/s² (7 G)
internal
< 10 A
Cool White, 6,000 K
270 lm
Acc. to EN 55015
Acc. to EN 61547
open conductor end /length 2 m
Heluwind WK 103w-T 3G1.5 (AD 8 mm)
Mounting: direct mounting on a stainless steel mounting plate with four metric M4 screws.
Conductor gasket: cable gland M16 order separately
Note the maximum thread lengths of the glands
UL 1598
V0
120 V AC

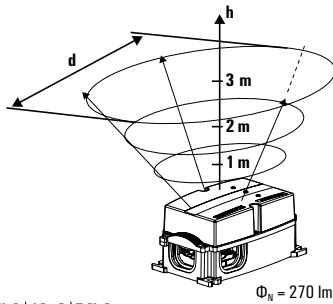
Ordering data

Type	Qty.	Order No.
BG GHDE LED TL M4 PT6	1	1390870000

Mounting options
 Direct mounting onto a stainless steel mounting plate with four metric M4 screws is possible. The M16 cable gland can be ordered separately. The maximum thread length of the screw must be observed.



Optimum surface illumination for AC and DC environments



h [m]	E [lx] 0°	d [m]	E [lx] θ
1,0	90	2,0	34
1,3	50	3,3	16
2,0	22	4,1	9
3,0	10	6,1	4

BG GHDE LED TL PT6



Technical data

Rated data to EN 60598-1

Rated voltage

Variable-voltage input

Power rating/power loss

Inrush current

General data

Overvoltage category pollution degree

Elevation

Insulation voltage

Mounting position

Protection class to IEC 60529

Protection class

Ambient temperature (operational/storage)

Halogen-free /silicone-free

LED operating life

Resistance to vibration, sinusoidal, stationary

Amplitude deflection

Amplitude acceleration

Resistance to shock, portable

Peak acceleration, type L

Short-circuit protection

Circuit breaker

Light colour (CCT)

Light current

EMC

Noise emission

Noise immunity tests

Connection data

Type of connection

Line type

Note

Rated data to cULus

Standard

Fire specification to UL 94

Rated voltage

Ordering data

Rated voltage	265 V
Variable-voltage input	100...265 V DC + AC (45...65 Hz)
Power rating/power loss	7 W / < 2 W
Inrush current	0.5 A / 0.1 ms

Overvoltage category pollution degree	II / 2
Elevation	≤ 3,000 m
Insulation voltage	< 500 V (housing / PE)
Mounting position	any
Protection class to IEC 60529	IP 65 when mounted
Protection class	2
Ambient temperature (operational/storage)	-40 °C...+60 °C / -40 °C...+85 °C
Halogen-free /silicone-free	no (PVC conductor) /yes
LED operating life	> 50,000 hrs
Resistance to vibration, sinusoidal, stationary	EN 60721-3-3, Class 3M3
Amplitude deflection	1.5 mm (2-9 Hz)
Amplitude acceleration	5 m/s² (0.5 G) (at 9-200 Hz)
Resistance to shock, portable	EN 60721-3-3, Class 3M3
Peak acceleration, type L	70 m/s² (7 G)
Short-circuit protection	internal
Circuit breaker	< 10 A
Light colour (CCT)	Cool White, 6,000 K
Light current	270 lm

EMC	Acc. to EN 55015
	Acc. to EN 61547

Connection data	open conductor end /length 2 m
	Heluwind WK 103w-T 3G1.5 (AD 8 mm)

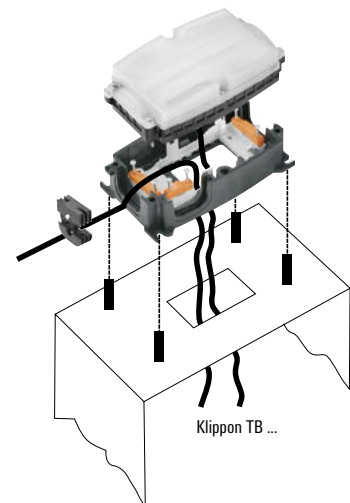
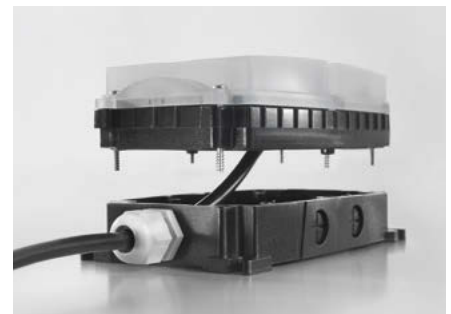
On housing base without (1070140000) or with cutout (1272210000) or with cable gland (...0000). Enclosure seals RKDG... must be ordered separately.

Rated data to cULus	UL 1598
Standard	V0
Fire specification to UL 94	120 V AC

Type	Qty.	Order No.
BG GHDE LED TL PT6	1	1390850000

Mounting options

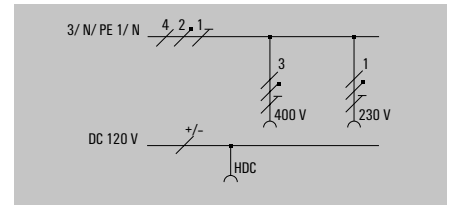
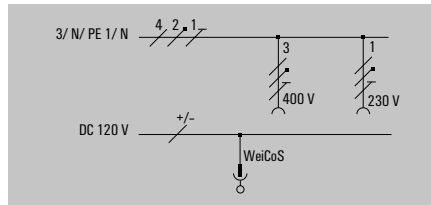
Mounting on housing base, available with or without cutout and with or without cable gland. RKDG housing seals can also be ordered separately



Compact and flexible placeable power outlets

OLB 230/400/120T WeiCoS

OLB 230/400/120T HQ4-2



Technical data

General data

- Protection class in closed state
- Temperature range/storage
- Halogen-free/silicone-free
- Insulating material
- Material colour
- UL 94 flammability rating
- Enclosure mounting
- Cover attachment

Technical data for 400 V mounted socket

- Operating voltage
- Rated current
- Protection class in closed state
- Poles
- Hertz
- Time setting
- Contact format
- Colour (cover)

Technical data for 230 V mounted socket

- Operating voltage
- Rated current
- Protection class in closed state
- Poles
- Hertz
- Time setting
- Contact format
- Colour (cover)

Connection data 400 / 230 V AC

Connection type

Connection data 120 V DC

Type of connection

Branch connection LED lamp

Type of connection

Ordering data

IP 54		
-40 °C...+55 °C / -40 °C...+85 °C		
yes/yes		
PC GF 10		
black		
5 VA		
Fixing lugs		
Screwing		
Operating voltage	400 V	
Rated current	16 A	
Protection class in closed state	IP 67	
Poles	5	
Hertz	50-60 Hz	
Time setting	6 h	
Standard	Standard	
Colour (cover)	red	
Operating voltage	230 V	
Rated current	16 A	
Protection class in closed state	IP 67	
Poles	3	
Hertz	50-60 Hz	
Time setting	6 h	
Standard	Standard	
Colour (cover)	blue	
Connection type	1 x HQ 8 (plug-in connector with fixed number of poles) 7 x WeiCoS ZT 2.5 (plug-in modular terminals)	
Type of connection	1 x HQ 4/2 (plug-in connector with fixed number of poles) 2 x WeiCoS ZT 2.5 (plug-in modular terminals)	
Type of connection	2 x WeiCoS ZT 2.5 (plug-in modular terminals)	
Type	Qty.	Order No.
OLB 230/400/120T WeiCoS	1	8000019846

IP 54		
-40 °C...+55 °C / -40 °C...+85 °C		
yes/yes		
PC GF 10		
black		
5 VA		
Fixing lugs		
Screwing		
Operating voltage	400 V	
Rated current	16 A	
Protection class in closed state	IP 67	
Poles	5	
Hertz	50-60 Hz	
Time setting	6 h	
Standard	Standard	
Colour (cover)	red	
Operating voltage	230 V	
Rated current	16 A	
Protection class in closed state	IP 67	
Poles	3	
Hertz	50-60 Hz	
Time setting	6 h	
Standard	Standard	
Colour (cover)	blue	
Connection type	1 x HQ 8 (plug-in connector with fixed number of poles) 7 x WeiCoS ZT 2.5 (plug-in modular terminals)	
Type of connection	2 x HQ 4/2 (plug-in connector with fixed number of poles)	
Type of connection	1 x HQ 4/2 (plug-in connector with fixed number of poles)	
Type	Qty.	Order No.
OLB 230/400/120T HQ4	1	8000019847

Technical data

Machinery

Process

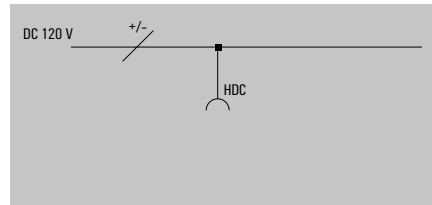
Energy

Transportation

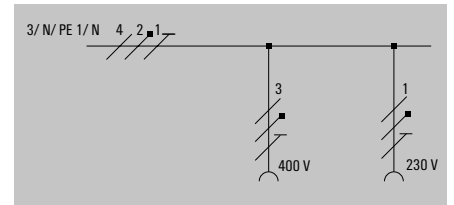
Device Manufacturers

Compact and flexible placeable power outlets

OLB 120T



OLB 230/400 HQ8



Technical data

General data

- Protection class in closed state
- Temperature range/storage
- Halogen-free /silicone-free
- Insulating material
- Material colour
- UL 94 flammability rating
- Enclosure mounting
- Cover attachment

Technical data for 400 V mounted socket

- Operating voltage
- Rated current
- Protection class in closed state
- Poles
- Hertz
- Time setting
- Contact format
- Colour (cover)

Technical data for 230 V mounted socket

- Operating voltage
- Rated current
- Protection class in closed state
- Poles
- Hertz
- Time setting
- Contact format
- Colour (cover)

Connection data 400 / 230 V AC

- Connection type

Connection data 120 V DC

- Type of connection

Branch connection LED lamp

- Type of connection

Ordering data

IP 54
-40 °C...+55 °C / -40 °C...+85 °C
yes/yes
PC GF 10
black
5 VA
Fixing lugs
Screwing

--

2 x HQ 4/2 (plug-in connector with fixed number of poles)

1 x HQ 4/2 (plug-in connector with fixed number of poles)

Type	Qty.	Order No.
OLB 120T	1	8000019848

IP 54
-40 °C...+55 °C / -40 °C...+85 °C
yes/yes
PC GF 10
black
5 VA
Fixing lugs
Screwing

400 V
16 A
IP 67
5
50-60 Hz
6 h
Standard
red

230 V
16 A
IP 67
3
50-60 Hz
6 h
Standard
blue

1 x HQ 8 (plug-in connector with fixed number of poles)

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Type	Qty.	Order No.
OLB 230/400 HQ8	1	8000019849

Technical data

Machinery

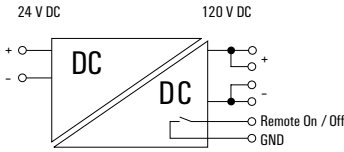
Process

Energy

Transportation

Device Manufacturers

Reliable voltage conversion



DCDC 24V-120V 230 W



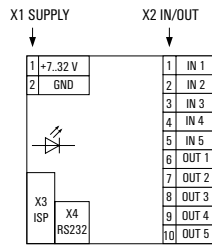
Technical data

Input
Input voltage, min./max.
Rated input voltage
Turn-on current limit
DC current consumption
Wire connection method
Output
Output voltage, min./max.
Rated output current
Rated output power
Overload protection
Wire connection method
General data
Ambient temperature (operational/storage)
Humidity
Short-circuit protection
Current limiting
Efficiency
Protection class to IEC 60529
Connection data (input)
Connection cross-section, flexible, min./max.
Connection cross-section, rigid, min./max.
Wire cross-section, AWG, min. / max.
Tightening torque, min.
Reverse polarity protection/overvoltage protection
Number terminals/poles
Connection data (output)
Connection cross-section, flexible, min./max.
Connection cross-section, rigid, min./max.
Wire cross-section, AWG, min. / max.
Tightening torque, min.
Number terminals/poles
Electrical safety
Electrical machine equipment
Safety extra-low voltage
Machinery with electronic equipment
Connection data (signal)
Connection cross-section, rigid, min./max.
Connection system
Number terminals/poles
Controller input/signalling
Remote on/off short-circuit-proof
Remote on/off input
Status indicator
Approvals
RoHS
Ordering data

19.2 V DC / 28.8 V DC	
24 V DC	
< 10 A	
11 A, max. 15.5 A	
PUSH IN	
96 V DC / 144 V DC	
2 A	
230 W	
Yes, at 3 A	
Screw connection	
-40 °C...+70 °C / -40 °C...+85 °C	
5...95 % (no condensation)	
yes	
150 % I _{out}	
93 %	
IP 20	
0.5 mm ² / 2.5 mm ²	
0.5 mm ² / 6 mm ²	
26 / 12	
0.5 Nm / 0.6 Nm	
yes/yes	
1/6-pole, input ++/-	
0.5 mm ² / 2.5 mm ²	
0.5 mm ² / 6 mm ²	
26 / 12	
0.5 Nm / 0.6 Nm	
1/2-pole, output ++/-	
EN 60204	
SELV to EN 60950, PELV to EN 60204	
EN 50178/VDE0160	
0.5 mm ² / 6 mm ²	
Screw connection	
1/2-pole, remote On/Off	
yes	
24-V-DC signal	
LED green (DC OK): input/output voltage ≥ 16 V U _{in} ≥ 73 V U _{out} , LED red (fault): input/output voltage ≤ 16 V U _{in} = 0 V U _{out}	
compliant	
Type	Order No.
DCDC 24V-120V 230 W	1507190000

Convenient and economical remote maintenance

Control Unit WCU 501



Technical data

Input	
Input fuse (external)	max. 5 A
Current consumption	< 4 mA
Operating voltage	7 V DC...32 V DC
Electrical connection	
Connection cross-section, min./max.	0.25 mm ² / 1.5 mm ²
Wire connection method	PUSH IN
General data	
Ambient temperature (operational/storage)	-40 °C...+70 °C / -40 °C...+70 °C
Type of protection	IP 20
Safety	Watch, Fail-Safe Clock
Enclosure material	Acrylnitril-Butadien-Styrol (ABS)
Grouting material	Polyurethane (PU)
Programmable, interface	miCon-L (graphical), RS232
EMV / shock / vibration	
Shock resistance	min. 100 m/s ² (10 G)
Vibration resistance	min. 50 m/s ² (5 G) bei 10...100 Hz
Digital input IN 1-IN2	
U_{IN}	0-30 V DC
U_{LOW}	≅ 5 V DC
f_{IN}	≅ 1 kHz
R_i	> 30 kΩ
U_{HIGH}	> 5 V DC
t_{IN}	≅ 1 ms
Analogue input IN3-IN5	
U_{IN}	0-30 V DC
R_i	> 11 kΩ
Accuracy IN3-IN5	
Accuracy ADC	+/- 3 % (0,5 V DC) 10 Bit
Output OUT1-OUT4	
I_{OUT}	1.5 A
$U_{OUT} = U_{IN}$	-0.45 V
I_{TOT}	≅ 4 A
PWM output OUT5	
I_{OUT}	≅ 2 A
U_{OUT}	≅ GND + 0.25 V
f_{OUT}	1-5 kHz
S	500 Hz
Conformity / standards	
Conformity	2006/95/EG; 2004/108/EG
Standards	EN 60730-1; EN 61010-1; EN 50081-1; EN 50082-1; EN 60068-2-78:2002; EN 60068-2-6:2008; ISO 16750-3:2007

Ordering data

Type	Order No.
Control Unit WCU 501	1517130000

Accessories

Type	Order No.
Starter Kit WCU 501	1548720000

Sufficient high power – at any time
PROmax-power supply units and UPS-modules

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Type	Input side			Output side			Additional Functions						Recommendations for applications						Order No.																	
	Phases	AC input voltage [V]	DC input voltage [V]	Rated voltage [V]	Rated current [A]	Power rating [W]	Derating at [°C]	Power Boost [60 s]	Status relay	Side-by-side connectivity	Temperature range [°C]	Efficiency [%]	MTBF time [Mh]	Overvoltage category	Approvals	Field control cabinets	Small and series machine construction	Machine construction and plant manufacture		Simple process applications	Process industry	Energy technology	Power distribution	Marine engineering												
PROmax	PRO MAX 72 W 24 V 3 A	1	85-277	80-370	24	3	72	> 60	120 % 300 % @ 1 s	CO	-25 bis +70	90 90 91 91 91.5 92.5 90 91 91.5 92.5	> 0.5	III												1478100000										
	PRO MAX 120 W 24 V 5 A	1	85-277	80-370	24	5	120			CO																					1478110000					
	PRO MAX 180 W 24 V 7,5 A	1	85-277	80-370	24	7,5	180			CO																						1478120000				
	PRO MAX 240 W 24 V 10 A	1	85-277	80-370	24	10	240			CO																							1478130000			
	PRO MAX 480 W 24 V 20 A	1	85-277	80-370	24	20	480			CO																								1478140000		
	PRO MAX 960 W 24 V 40 A	1	85-277	80-370	24	40	960			CO																									1478150000	
	PRO MAX3 120 W 24 V 5 A	3	3 x 320-3 x 575	450-800	24	5	120			CO								Start-up @ -40 °C																	1478170000	
	PRO MAX3 240 W 24 V 10 A	3	3 x 320-3 x 575	450-800	24	10	240			CO																										1478180000
	PRO MAX3 480 W 24 V 20 A	3	3 x 320-3 x 575	450-800	24	20	480			CO																										1478190000
PRO MAX3 960 W 24 V 40 A	3	3 x 320-3 x 575	450-800	24	40	960	CO																					1478200000								

Type	Input		Output				Additional Functions						Order No.
	DC input voltage [V]		Rated voltage [V]	Rated current [A]	Power rating [W]	Status relay	Parallel connection option	Side-by-side connectivity	Temperature range [°C]	Approvals (all CE)			
USV	CP DC BUFFER 24 V 20 A	22,5-30	24	20	480				-25 to +70		1251220000		
	CP DC UPS 24 V 20 A/10 A	20-30	U _{in} -0.3 V	20/10	480/240						1370050010		
	CP DC UPS 24 V 40 A	20-30	U _{in} -0.3 V	40	960						1370040010		
	CP A BATTERY 24 V DC 1,3 Ah		24	10 A / 11.3 min	1.3 Ah	≤ 2			0 to +40		1406930000		
	CP A BATTERY 24 V DC 3,4 Ah		24	10 A / 11.3 min	3.4 Ah	≤ 2					1251070000		
	CP A BATTERY 24 V DC 7,2 Ah		24	10 A / 26.5 min	7.2 Ah	≤ 2					1251080000		
	CP A BATTERY 24 V DC 12 Ah		24	10 A / 51 min	12 Ah	≤ 2					1251090000		
	CP A BATTERY 24 V DC 17 Ah		24	10 A / 81 min	17 Ah	≤ 2					1251110000		

LED's	Current	Minutes							Hours						
		26	30	34	39	48	60	90	2	3	4	5	6	7	
4	0,84 A														
8	1,68 A														
12	2,52 A														
16	3,36 A			3,4 Ah											
20	4,20 A														
24	5,04 A														
28	5,88 A														
32	6,72 A														
36	7,56 A				7,2 Ah										
40	8,40 A														
44	9,24 A					12,0 Ah									
48	10,08 A														
52	10,92 A														
56	11,76 A														
60	12,60 A														

Pre-assembled conductors for quick installation

HDC 9m MC/FC 2x1,5 Lapp

HDC 9m MC/FC 2x2,5 Lapp



Technical data

General data

Line type
Number of conductors and mm ² per conductor
Outside diameter
Copper index
Weight
Conductor
Conductor colour / identification
Length

Electrical properties of conductor

Rated voltage
Test voltage

Mechanical/thermal/chemical characteristics of conductor

Min. bending radius
occasionally moved
stationary
Torsion application
Temperature range
occasionally moved
stationary
Resistance to spread of flame
Oil resistance

Approvals of conductor

Approvals

Conformity EU-directives

Connection data

Type of connection
Pin assignment
Type of contact

Ordering data

LAPP Ölflex Classic 110

2 x 1.5 mm²

6,3 mm

29,0 kg/km

68 kg/km

Cu strands acc. to IEC 60228

black/white numbers

9 m

300 / 500 V

4,000 V

10 x conductor cross-section

4 x conductor cross-section

+ / - 150°/m

-15 °C...+70 °C

-40 °C...+80 °C

IEC 60332-1-2, VDE 0482-332-1-2

DIN EN 50290-2-22, VDE 0819-102, TM54

VDE Reg.-No. 7030

2006/95/EG, 2002/95/EG, 2011/65/EG

Plug-in connector with fixed number of poles, HQ 4/2

1 = +, 4 = -

male / female

Type

HDC 9m MC/FC 2x1,5 Lapp

Order No.

8000015482

LAPP Ölflex Classic 110

2 x 2.5 mm²

7,5 mm

48,0 kg/km

101 kg/km

Cu strands acc. to IEC 60228

black/white numbers

9 m

300 / 500 V

4,000 V

10 x conductor cross-section

4 x conductor cross-section

+ / - 150°/m

-15 °C...+70 °C

-40 °C...+80 °C

IEC 60332-1-2, VDE 0482-332-1-2

DIN EN 50290-2-22, VDE 0819-102, TM54

VDE Reg.-No. 7030

2006/95/EG, 2002/95/EG, 2011/65/EG

Plug-in connector with fixed number of poles, HQ 4/2

1 = +, 4 = -

male / female

Type

HDC 9m MC/FC 2x2,5 Lapp

Order No.

8000018256



Pre-assembled conductors for quick installation

HDC 9m MC/FC 2x1,5 Helu

HDC 9m MC/FC 2x2,5 Helu



Technical data

General data	
Line type	
Number of conductors and mm ² per conductor	
Outside diameter	
Copper index	
Weight	
Conductor	
Conductor colour / identification	
Length	
Electrical properties of conductor	
Rated voltage	
Test voltage	
Mechanical/thermal/chemical characteristics of conductor	
Min. bending radius	
occasionally moved	
stationary	
Torsion application	
Temperature range	
occasionally moved	
stationary	
Resistance to spread of flame	
Oil resistance	
Approvals of conductor	
Approvals	
Conformity EU-directives	
Connection data	
Type of connection	
Pin assignment	
Type of contact	

Heluwind WK 103w-Torsion
2 x 1.5 mm ²
7.9 mm
29.0 kg/km
75.0 kg/km
Cu strands acc. to IEC 60228
black/white numbers
9 m
Acc. to VDE 0.6/1 kV, acc. to UL 1,000 V
4,000 V
8 x conductor cross-section
4 x conductor cross-section
+/-140°/m
-35 °C...+90 °C
-40 °C...+90 °C
IEC 60332-1, FT1, VW-1
IEC 60811-404
Singlecore UL-Style 10678 < 400 mm ²
Multicore UL-Style 21179
cRUus
2006/95/EG
Plug-in connector with fixed number of poles, HQ 4/2
1 = +, 4 = -
male / female

Heluwind WK 103w-Torsion
2 x 2.5 mm ²
8.4 mm
48.0 kg/km
116.0 kg/km
Cu strands acc. to IEC 60228
black/white numbers
9 m
Acc. to VDE 0.6/1 kV, acc. to UL 1,000 V
4,000 V
8 x conductor cross-section
4 x conductor cross-section
+/-140°/m
-35 °C...+90 °C
-40 °C...+90 °C
IEC 60332-1, FT1, VW-1
IEC 60811-404
Singlecore UL-Style 10678 < 400 mm ²
Multicore UL-Style 21179
cRUus
2006/95/EG
Plug-in connector with fixed number of poles, HQ 4/2
1 = +, 4 = -
male / female

Ordering data

Type	Order No.
HDC 9m MC/FC 2x1,5 Helu	8000018257

Type	Order No.
HDC 9m MC/FC 2x2,5 Helu	8000018258

Pre-assembled conductors for quick installation

HDC 22cm MC/FC 2x2,5 Lapp

HDC 22cm MC/FC 2x2,5 Helu



Technical data

General data	
Line type	LAPP Öflex Classic 110
Number of conductors and mm ² per conductor	2 x 2.5 mm ²
Outside diameter	7.5 mm
Copper index	48.0 kg/km
Weight	101 kg/km
Conductor	Cu strands acc. to IEC 60228
Conductor colour / identification	black/white numbers
Length	220 mm
Electrical properties of conductor	
Rated voltage	300 / 500 V
Test voltage	4,000 V
Mechanical/thermal/chemical characteristics of conductor	
Min. bending radius	
occasionally moved	10 x conductor cross-section
stationary	4 x conductor cross-section
Torsion application	+ / - 150°/m
Temperature range	
occasionally moved	-15 °C...+70 °C
stationary	-40 °C...+80 °C
Resistance to spread of flame	IEC 60332-1-2, VDE 0482-332-1-2
Oil resistance	DIN EN 50290-2-22, VDE 0819-102, TM54
Approvals of conductor	
Approvals	VDE Reg.-No. 7030
Conformity EU-directives	2006/95/EG, 2002/95/EG, 2011/65/EG
Connection data	
Type of connection	Plug-in connector with fixed number of poles, HQ 4/2
Pin assignment	1 = +, 4 = -
Type of contact	male / female

Ordering data

General data	
Line type	LAPP Öflex Classic 110
Number of conductors and mm ² per conductor	2 x 2.5 mm ²
Outside diameter	7.5 mm
Copper index	48.0 kg/km
Weight	101 kg/km
Conductor	Cu strands acc. to IEC 60228
Conductor colour / identification	black/white numbers
Length	220 mm
Electrical properties of conductor	
Rated voltage	300 / 500 V
Test voltage	4,000 V
Mechanical/thermal/chemical characteristics of conductor	
Min. bending radius	
occasionally moved	10 x conductor cross-section
stationary	4 x conductor cross-section
Torsion application	+ / - 150°/m
Temperature range	
occasionally moved	-15 °C...+70 °C
stationary	-40 °C...+80 °C
Resistance to spread of flame	IEC 60332-1-2, VDE 0482-332-1-2
Oil resistance	DIN EN 50290-2-22, VDE 0819-102, TM54
Approvals of conductor	
Approvals	VDE Reg.-No. 7030
Conformity EU-directives	2006/95/EG, 2002/95/EG, 2011/65/EG
Connection data	
Type of connection	Plug-in connector with fixed number of poles, HQ 4/2
Pin assignment	1 = +, 4 = -
Type of contact	male / female

Type	Order No.
HDC 22cm MC/FC 2x2,5 Lapp	8000020288

General data	
Line type	Heluwind WK 103w-Torsion
Number of conductors and mm ² per conductor	2 x 2.5 mm ²
Outside diameter	8.4 mm
Copper index	48.0 kg/km
Weight	116.0 kg/km
Conductor	Cu strands acc. to IEC 60228
Conductor colour / identification	black/white numbers
Length	220 mm
Electrical properties of conductor	
Rated voltage	Acc. to VDE 0.6/1 kV, acc. to UL 1,000 V
Test voltage	4,000 V
Mechanical/thermal/chemical characteristics of conductor	
Min. bending radius	
occasionally moved	8 x conductor cross-section
stationary	4 x conductor cross-section
Torsion application	+ / - 140°/m
Temperature range	
occasionally moved	-35 °C...+90 °C
stationary	-40 °C...+90 °C
Resistance to spread of flame	IEC 60332-1, FT1, VW-1
Oil resistance	IEC 60811-404
Approvals of conductor	
Approvals	Singlecore UL-Style 10678 < 400 mm ² Multicore UL-Style 21179 cRUus
Conformity EU-directives	2006/95/EG
Connection data	
Type of connection	Plug-in connector with fixed number of poles, HQ 4/2
Pin assignment	1 = +, 4 = -
Type of contact	male / female

Type	Order No.
HDC 22cm MC/FC 2x2,5 Helu	8000020289

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Klippon® CS STB 1-1



Klippon® CS STB 1-1



Technical data

Housing		
Dimensions with installation (HxBxD)	150 / 120 / 119 mm	
Material	Stainless steel 1.4404 (316L)	
General characteristics		
Surface finish / Colour	Mirror polished / Natural	
Protection degree	IP 54, IP 66	
Ambient temperature	-20 °C...+55 °C	
Impact resistance	7 joules in acc. with IEC60079-0	
Enclosure seal material	Silicone (VMQ)	
Seal material of control and indicating elements	EPDM	
Type of mounting	Wall mounting	
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel	
External earth	M6 earthing studs, stainless steel	
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width	
Torque for lid screws	2.5 Nm	
Earth stud torque	7.5 Nm	
Electrical properties		
Wire connection cross section, finely stranded, max.	2.5 mm ²	
Operating voltage, max.	400 V	
Temperature classes	T4, T5, T6	
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background	
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	2 NC contact, positive opening contacts	
Actuators	EMERGENCY STOP pushbutton	
Actuator colour	red	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	
Cable gland	1460050000 - VG M20 EXE MS	
Clamping range min. / max.	3 mm / 12 mm	
Approval and identification		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Approvals	IECEXITA14.0013X	
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db	
Note		
Ordering data		
Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537200000
Note		
*For other temperature classes and connection values, see "Notice to Installer" or on request.		

Housing		
Dimensions with installation (HxBxD)	150 / 120 / 94.6 mm	
Material	Stainless steel 1.4404 (316L)	
General characteristics		
Surface finish / Colour	Mirror polished / Natural	
Protection degree	IP 54, IP 66	
Ambient temperature	-20 °C...+55 °C	
Impact resistance	7 joules in acc. with IEC60079-0	
Enclosure seal material	Silicone (VMQ)	
Seal material of control and indicating elements	EPDM	
Type of mounting	Wall mounting	
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel	
External earth	M6 earthing studs, stainless steel	
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width	
Torque for lid screws	2.5 Nm	
Earth stud torque	7.5 Nm	
Electrical properties		
Wire connection cross section, finely stranded, max.	2.5 mm ²	
Operating voltage, max.	400 V	
Temperature classes	T4, T5, T6	
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background	
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	1 NC contact, 1 NO contacts	
Actuators	Pushbutton	
Actuator colour	green	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	
Cable gland	1460050000 - VG M20 EXE MS	
Clamping range min. / max.	3 mm / 12 mm	
Approval and identification		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Approvals	IECEXITA14.0013X	
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db	
Note		
Ordering data		
Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537210000
Note		
*For other temperature classes and connection values, see "Notice to Installer" or on request.		

Housing		
Dimensions with installation (HxBxD)	150 / 120 / 94.6 mm	
Material	Stainless steel 1.4404 (316L)	
General characteristics		
Surface finish / Colour	Mirror polished / Natural	
Protection degree	IP 54, IP 66	
Ambient temperature	-20 °C...+55 °C	
Impact resistance	7 joules in acc. with IEC60079-0	
Enclosure seal material	Silicone (VMQ)	
Seal material of control and indicating elements	EPDM	
Type of mounting	Wall mounting	
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel	
External earth	M6 earthing studs, stainless steel	
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width	
Torque for lid screws	2.5 Nm	
Earth stud torque	7.5 Nm	
Electrical properties		
Wire connection cross section, finely stranded, max.	2.5 mm ²	
Operating voltage, max.	400 V	
Temperature classes	T4, T5, T6	
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background	
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	1 NC contact, 1 NO contacts	
Actuators	Pushbutton	
Actuator colour	green	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	
Cable gland	1460050000 - VG M20 EXE MS	
Clamping range min. / max.	3 mm / 12 mm	
Approval and identification		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Approvals	IECEXITA14.0013X	
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db	
Note		
Ordering data		
Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537210000
Note		
*For other temperature classes and connection values, see "Notice to Installer" or on request.		

Klippon® CS STB 1-1



Klippon® CS STB 1-1



Klippon® CS STB 1-2



150 / 120 / 108.55 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Key-operated switch

1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - 0 - II, (I + II), latching, Key retractable

1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm

IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537220000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

150 / 120 / 96.3 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Illuminated pushbutton - green

2 NO contacts
Pushbutton

green
green
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm

IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537230000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

153.35 / 120 / 118.95 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
EMERGENCY-STOP pushbutton on yellow background

2 NC contact, positive opening contacts
EMERGENCY STOP pushbutton

red
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm

IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537240000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Klippon® CS STB 1-2



Klippon® CS STB 1-2



Technical data

Housing	
Dimensions with installation (HxBxD)	153.35 / 120 / 94.6 mm
Material	Stainless steel 1.4404 (316L)
General characteristics	
Surface finish / Colour	Mirror polished / Natural
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel
External earth	M6 earthing studs, stainless steel
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width
Torque for lid screws	2.5 Nm
Earth stud torque	7.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Pushbutton - green
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	1 NC contact, 1 NO contacts
Actuators	Pushbutton
Actuator colour	green
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECExITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Note	

Housing	
Dimensions with installation (HxBxD)	153.35 / 120 / 94.6 mm
Material	Stainless steel 1.4404 (316L)
General characteristics	
Surface finish / Colour	Mirror polished / Natural
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel
External earth	M6 earthing studs, stainless steel
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width
Torque for lid screws	2.5 Nm
Earth stud torque	7.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Pushbutton - green
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	1 NC contact, 1 NO contacts
Actuators	Pushbutton
Actuator colour	green
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECExITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Note	

Housing	
Dimensions with installation (HxBxD)	153.35 / 120 / 108.55 mm
Material	Stainless steel 1.4404 (316L)
General characteristics	
Surface finish / Colour	Mirror polished / Natural
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel
External earth	M6 earthing studs, stainless steel
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width
Torque for lid screws	2.5 Nm
Earth stud torque	7.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Key-operated switch
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	1 NC contact, 1 NO contacts
Actuators	Key-operated switch, 3 switching positions, I - 0 - II, (I + II), latching, Key retractable
Actuator colour	
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECExITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Note	

Ordering data

Note		
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Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537250000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537280000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS STB 1-2



153.35 / 120 / 96.3 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537290000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS STB 2.1-2



223.35 / 150 / 94.6 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - red
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537300000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS STB 2.1-2



223.35 / 150 / 103.2 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Light module - green
Pushbutton - green
1 NC contact, 1 NO contacts
Pushbutton
green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537310000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS STB 2.1-2



Klippon® CS STB 2.1-6



Technical data

Housing	
Dimensions with installation (HxBxD)	223.35 / 150 / 118.95 mm
Material	Stainless steel 1.4404 (316L)
General characteristics	
Surface finish / Colour	Mirror polished / Natural
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	4 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel
External earth	M6 earthing studs, stainless steel
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width
Torque for lid screws	2.5 Nm
Earth stud torque	7.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	250 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - red
2 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background
3 Position in enclosure	
4 Position in enclosure	
Contact design	2 NC contact, positive opening contacts
Actuators	EMERGENCY STOP pushbutton
Actuator colour	red
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECEXITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Note	

Housing	
Dimensions with installation (HxBxD)	223.35 / 150 / 94.6 mm
Material	Stainless steel 1.4404 (316L)
General characteristics	
Surface finish / Colour	Mirror polished / Natural
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel
External earth	M6 earthing studs, stainless steel
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width
Torque for lid screws	2.5 Nm
Earth stud torque	7.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Pushbutton - green
2 Position in enclosure	Pushbutton - red
3 Position in enclosure	Pushbutton - green
4 Position in enclosure	
Contact design	3 NC contact, 3 NO contacts
Actuators	Pushbutton
Actuator colour	green, red
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECEXITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Note	

Housing	
Dimensions with installation (HxBxD)	223.35 / 150 / 94.6 mm
Material	Stainless steel 1.4404 (316L)
General characteristics	
Surface finish / Colour	Mirror polished / Natural
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	M6 x 10 earthing studs welded on lid, stainless steel
External earth	M6 earthing studs, stainless steel
Lid attachment	M5 hexagon stainless-steel slotted screw with 10mm spanner width
Torque for lid screws	2.5 Nm
Earth stud torque	7.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Pushbutton - green
2 Position in enclosure	Pushbutton - red
3 Position in enclosure	Pushbutton - green
4 Position in enclosure	
Contact design	3 NC contact, 3 NO contacts
Actuators	Pushbutton
Actuator colour	green, red
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECEXITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Note	

Ordering data

Note	
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Type	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537320000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Type	Qty.	Order No.
KLIPPON CS STB 2.1-6	1	1537330000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS STB 2.1-7



223.35 / 150 / 103.2 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Pushbutton - red
Light module - green
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEX/TA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-7	1	1537340000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS STB 2.1-7



220 / 150 / 118.95 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs welded on lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagon stainless-steel slotted screw with 10mm spanner width
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
EMERGENCY-STOP pushbutton on yellow background
2 NC contact, 2 NO contacts
Pushbutton, EMERGENCY STOP pushbutton
green, red
2 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEX/TA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db

Type	Qty.	Order No.
KLIPPON CS STB 2.1-7	1	1537370000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 121209-2



Klippon® CS POK 121209-2



Technical data

Housing	
Dimensions with installation (HxBxD)	152.14 / 120 / 127.45 mm
Material	Glass-fibre reinforced polyester with graphite mixture
General characteristics	
Surface finish / Colour	untreated / similar to RAL 9011
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
UL 94 flammability rating	V-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
External earth	Available on request
Lid attachment	Crosshead screws, stainless steel
Torque for lid screws	2.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	2 NC contact, positive opening contacts
Actuators	EMERGENCY STOP pushbutton
Actuator colour	red
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1461150000 - VG M25 EXE SW
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECExITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Accessories	
Mounting feet	9510910000 - MF POK big

Note

Ordering data

Type	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537070000

Note

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Housing	
Dimensions with installation (HxBxD)	152.14 / 120 / 103.1 mm
Material	Glass-fibre reinforced polyester with graphite mixture
General characteristics	
Surface finish / Colour	untreated / similar to RAL 9011
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	7 joules in acc. with IEC60079-0
UL 94 flammability rating	V-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
External earth	Available on request
Lid attachment	Crosshead screws, stainless steel
Torque for lid screws	2.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	400 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Pushbutton - green
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	1 NC contact, 1 NO contacts
Actuators	Pushbutton
Actuator colour	green
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M20
Cable gland	1461150000 - VG M25 EXE SW
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECExITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Accessories	
Mounting feet	9510910000 - MF POK big

Note

Ordering data

Type	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537080000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 121209-2



152.14 / 120 / 117.05 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Key-operated switch
1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - 0 - II, (I + II), latching, Key retractable
1 x M20
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Type	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537090000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 121209-2



152.14 / 120 / 104.8 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M20
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Type	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537100000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 121209-4



152.14 / 120 / 103.1 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - red
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
1 x M25
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Type	Qty.	Order No.
KLIPPON CS POK 121209-4	1	1537110000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 121209-4



Klippon® CS POK 121209-4



Technical data

Housing
Dimensions with installation (HxBxD)
Material
General characteristics
Surface finish / Colour
Protection degree
Ambient temperature
Impact resistance
UL 94 flammability rating
Enclosure seal material
Seal material of control and indicating elements
Type of mounting
External earth
Lid attachment
Torque for lid screws
Electrical properties
Wire connection cross section, finely stranded, max.
Operating voltage, max.
Temperature classes
Enclosure assembly
1 Position in enclosure
2 Position in enclosure
3 Position in enclosure
4 Position in enclosure
Contact design
Actuators
Actuator colour
Illumination module colour
Illuminated button actuator colour
Cable entries
Drill holes side B
Cable gland
Clamping range min. / max.
Approval and identification
Standards
Approvals
Marking
Accessories
Mounting feet

152.14 / 120 / 111.7 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Light module - green
Pushbutton - green
1 NC contact, 1 NO contacts
Pushbutton
green
green
1 x M25
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECExITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

152.14 / 120 / 127.45 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Light module - red
EMERGENCY-STOP pushbutton on yellow background
2 NC contact, positive opening contacts
EMERGENCY STOP pushbutton
red
red
1 x M25
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECExITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Note

Ordering data

Type	Qty.	Order No.
KLIPPON CS POK 121209-4	1	1537120000

Note

Note

Type	Qty.	Order No.
KLIPPON CS POK 121209-4	1	1537120000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Note

Type	Qty.	Order No.
KLIPPON CS POK 121209-4	1	1537130000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 122209-2



250.14 / 120 / 111.7 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Pushbutton - red
Light module - green
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECExITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Type	Qty.	Order No.
KLIPPON CS POK 122209-2	1	1537140000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 122209-2



250.14 / 120 / 103.1 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
Pushbutton - green
3 NC contact, 3 NO contacts
Pushbutton
green, red
1 x M25
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECExITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Type	Qty.	Order No.
KLIPPON CS POK 122209-2	1	1537150000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 122209-2



250.14 / 120 / 127.45 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / similar to RAL 9011
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
EMERGENCY-STOP pushbutton on yellow background
2 NC contact, 2 NO contacts, positive opening contacts
Pushbutton, EMERGENCY STOP pushbutton
green, red
1 x M25
1461150000 - VG M25 EXE SW
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECExITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9510910000 - MF POK big

Type	Qty.	Order No.
KLIPPON CS POK 122209-2	1	1537170000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS POK 122209-4



Technical data

Housing	
Dimensions with installation (HxBxD)	250.14 / 120 / 111.7 mm
Material	Glass-fibre reinforced polyester with graphite mixture
General characteristics	
Surface finish / Colour	untreated / similar to RAL 9011
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	4 joules in acc. with IEC60079-0
UL 94 flammability rating	V-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
External earth	Available on request
Lid attachment	Crosshead screws, stainless steel
Torque for lid screws	2.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	250 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - red
2 Position in enclosure	Pushbutton - red
3 Position in enclosure	Light module - green
4 Position in enclosure	Pushbutton - green
Contact design	2 NC contact, 2 NO contacts
Actuators	Pushbutton
Actuator colour	green, red
Illumination module colour	red, green
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1461150000 - VG M25 EXE SW
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECEXITA14.0013X
Marking	2G Ex e d IIC T+ Gb 2G Ex ib d [ia] IIC T+ Gb 2D Ex t IIC T80/100 °C IP66 Db
Accessories	
Mounting feet	9510910000 - MF POK big

Note	
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Ordering data

Type	Qty.	Order No.
KLIPPON CS POK 122209-4	1	1537180000

Note	*For other temperature classes and connection values, see "Notice to Installer" or on request.
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers



Klippon® CS K41-1



Klippon® CS K41-1



Technical data

Housing		
Dimensions with installation (HxBxD)	148.81 / 120 / 118.45 mm	
Material	Aluminium AlSi12	
General characteristics		
Surface finish / Colour	Powder-coated / Silver grey	
Protection degree	IP 54, IP 66	
Ambient temperature	-20 °C...+55 °C	
Impact resistance	7 joules in acc. with IEC60079-0	
Enclosure seal material	Silicone (VMQ)	
Seal material of control and indicating elements	EPDM	
Type of mounting	Wall mounting	
Internal earth	Earth terminal	
External earth	M4 earthing studs, stainless steel	
Lid attachment	Torx®-20 slothead screws	
Torque for lid screws	2.5 Nm	
Earth stud torque	2.5 Nm	
Electrical properties		
Wire connection cross section, finely stranded, max.	2.5 mm²	
Operating voltage, max.	400 V	
Temperature classes	T4, T5, T6	
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background	
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	2 NC contact, positive opening contacts	
Actuators	EMERGENCY STOP pushbutton	
Actuator colour	red	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	
Cable gland	1460050000 - VG M20 EXE MS	
Clamping range min. / max.	3 mm / 12 mm	
Approval and identification		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Approvals	IECEXITA14.0013X	
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db	
Accessories		
Mounting feet	9527590000 - KLIPPON K MF KIT 25	
Note		
Ordering data		
Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537470000
Note		
*For other temperature classes and connection values, see "Notice to Installer" or on request.		

Housing		
Dimensions with installation (HxBxD)	148.81 / 120 / 94.1 mm	
Material	Aluminium AlSi12	
General characteristics		
Surface finish / Colour	Powder-coated / Silver grey	
Protection degree	IP 54, IP 66	
Ambient temperature	-20 °C...+55 °C	
Impact resistance	7 joules in acc. with IEC60079-0	
Enclosure seal material	Silicone (VMQ)	
Seal material of control and indicating elements	EPDM	
Type of mounting	Wall mounting	
Internal earth	Earth terminal	
External earth	M4 earthing studs, stainless steel	
Lid attachment	Torx®-20 slothead screws	
Torque for lid screws	2.5 Nm	
Earth stud torque	2.5 Nm	
Electrical properties		
Wire connection cross section, finely stranded, max.	2.5 mm²	
Operating voltage, max.	400 V	
Temperature classes	T4, T5, T6	
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background	
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	1 NC contact, 1 NO contacts	
Actuators	Pushbutton	
Actuator colour	green	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	
Cable gland	1460050000 - VG M20 EXE MS	
Clamping range min. / max.	3 mm / 12 mm	
Approval and identification		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Approvals	IECEXITA14.0013X	
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db	
Accessories		
Mounting feet	9527590000 - KLIPPON K MF KIT 25	
Note		
Ordering data		
Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537480000
Note		
*For other temperature classes and connection values, see "Notice to Installer" or on request.		

Housing		
Dimensions with installation (HxBxD)	148.81 / 120 / 94.1 mm	
Material	Aluminium AlSi12	
General characteristics		
Surface finish / Colour	Powder-coated / Silver grey	
Protection degree	IP 54, IP 66	
Ambient temperature	-20 °C...+55 °C	
Impact resistance	7 joules in acc. with IEC60079-0	
Enclosure seal material	Silicone (VMQ)	
Seal material of control and indicating elements	EPDM	
Type of mounting	Wall mounting	
Internal earth	Earth terminal	
External earth	M4 earthing studs, stainless steel	
Lid attachment	Torx®-20 slothead screws	
Torque for lid screws	2.5 Nm	
Earth stud torque	2.5 Nm	
Electrical properties		
Wire connection cross section, finely stranded, max.	2.5 mm²	
Operating voltage, max.	400 V	
Temperature classes	T4, T5, T6	
Enclosure assembly		
1 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background	
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	1 NC contact, 1 NO contacts	
Actuators	Pushbutton	
Actuator colour	green	
Illumination module colour		
Illuminated button actuator colour		
Cable entries		
Drill holes side B	1 x M20	
Cable gland	1460050000 - VG M20 EXE MS	
Clamping range min. / max.	3 mm / 12 mm	
Approval and identification		
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Approvals	IECEXITA14.0013X	
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db	
Accessories		
Mounting feet	9527590000 - KLIPPON K MF KIT 25	
Note		
Ordering data		
Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537480000
Note		
*For other temperature classes and connection values, see "Notice to Installer" or on request.		

Klippon® CS K41-1



148.81 / 120 / 108.05 mm
Aluminium AISi12
Powder-coated / Silver grey
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Key-operated switch
1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - 0 - II, (I + II), latching, Key retractable
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537490000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS K41-1



148.81 / 120 / 95.8 mm
Aluminium AISi12
Powder-coated / Silver grey
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K41-1	1	1537500000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS K41-4



152.21 / 120 / 94.1 mm
Aluminium AISi12
Powder-coated / Silver grey
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - red
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K41-4	1	1537510000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS K41-4



Klippon® CS K41-4



Technical data

Housing	
Dimensions with installation (HxBxD)	
Material	
General characteristics	
Surface finish / Colour	
Protection degree	
Ambient temperature	
Impact resistance	
Enclosure seal material	
Seal material of control and indicating elements	
Type of mounting	
Internal earth	
External earth	
Lid attachment	
Torque for lid screws	
Earth stud torque	
Electrical properties	
Wire connection cross section, finely stranded, max.	
Operating voltage, max.	
Temperature classes	
Enclosure assembly	
1 Position in enclosure	
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	
Actuators	
Actuator colour	
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	
Cable gland	
Clamping range min. / max.	
Approval and identification	
Standards	
Approvals	
Marking	
Accessories	
Mounting feet	
Note	
Ordering data	
Type	Qty.
KLIPPON CS K41-4	1
Order No.	
1537520000	
Note	
*For other temperature classes and connection values, see "Notice to Installer" or on request.	

Housing	
Dimensions with installation (HxBxD)	152.21 / 120 / 102.7 mm
Material	Aluminium AISi12
General characteristics	
Surface finish / Colour	Powder-coated / Silver grey
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	4 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	Earth terminal
External earth	M4 earthing studs, stainless steel
Lid attachment	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm
Earth stud torque	2.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm²
Operating voltage, max.	250 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - green
2 Position in enclosure	Pushbutton - green
3 Position in enclosure	
4 Position in enclosure	
Contact design	1 NC contact, 1 NO contacts
Actuators	Pushbutton
Actuator colour	green
Illumination module colour	green
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECEXITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Accessories	
Mounting feet	9527590000 - KLIPPON K MF KIT 25
Note	
Ordering data	
Type	Qty.
KLIPPON CS K41-4	1
Order No.	
1537520000	
Note	
*For other temperature classes and connection values, see "Notice to Installer" or on request.	

Housing	
Dimensions with installation (HxBxD)	152.21 / 120 / 118.45 mm
Material	Aluminium AISi12
General characteristics	
Surface finish / Colour	Powder-coated / Silver grey
Protection degree	IP 54, IP 66
Ambient temperature	-20 °C...+55 °C
Impact resistance	4 joules in acc. with IEC60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of control and indicating elements	EPDM
Type of mounting	Wall mounting
Internal earth	Earth terminal
External earth	M4 earthing studs, stainless steel
Lid attachment	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm
Earth stud torque	2.5 Nm
Electrical properties	
Wire connection cross section, finely stranded, max.	2.5 mm²
Operating voltage, max.	250 V
Temperature classes	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - red
2 Position in enclosure	EMERGENCY-STOP pushbutton on yellow background
3 Position in enclosure	
4 Position in enclosure	
Contact design	2 NC contact, positive opening contacts
Actuators	EMERGENCY STOP pushbutton
Actuator colour	red
Illumination module colour	
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and identification	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Approvals	IECEXITA14.0013X
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIIC T80/100 °C IP66 Db
Accessories	
Mounting feet	9527590000 - KLIPPON K MF KIT 25
Note	
Ordering data	
Type	Qty.
KLIPPON CS K41-4	1
Order No.	
1537530000	
Note	
*For other temperature classes and connection values, see "Notice to Installer" or on request.	

Klippon® CS K51-2



250.21 / 120 / 102.7 mm
Aluminium AISi12
Powder-coated / Silver grey
IP 54, IP 66
-20 °C...+55 °C
4 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Pushbutton - red
Light module - green
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K51-2	1	1537540000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS K51-2



250.21 / 120 / 94.1 mm
Aluminium AISi12
Powder-coated / Silver grey
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
Pushbutton - green
3 NC contact, 3 NO contacts
Pushbutton
green, red
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K51-2	1	1537550000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS K51-2



250.21 / 120 / 118.45 mm
Aluminium AISi12
Powder-coated / Silver grey
IP 54, IP 66
-20 °C...+55 °C
7 joules in acc. with IEC60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
EMERGENCY-STOP pushbutton on yellow background
2 NC contact, 2 NO contacts, positive opening contacts
Pushbutton, EMERGENCY STOP pushbutton
green, red
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb
2D Ex t IIIC T80/100 °C IP66 Db
9527590000 - KLIPPON K MF KIT 25

Type	Qty.	Order No.
KLIPPON CS K51-2	1	1537570000

*For other temperature classes and connection values, see "Notice to Installer" or on request.

Klippon® CS K51-4



Technical data

Housing							
Dimensions with installation (HxBxD)	250.21 / 120 / 102.7 mm						
Material	Aluminium AlSi12						
General characteristics							
Surface finish / Colour	Powder-coated / Silver grey						
Protection degree	IP 54, IP 66						
Ambient temperature	-20 °C...+55 °C						
Impact resistance	4 joules in acc. with IEC60079-0						
Enclosure seal material	Silicone (VMQ)						
Seal material of control and indicating elements	EPDM						
Type of mounting	Wall mounting						
Internal earth	Earth terminal						
External earth	M4 earthing studs, stainless steel						
Lid attachment	Torx®-20 slothead screws						
Torque for lid screws	2.5 Nm						
Earth stud torque	2.5 Nm						
Electrical properties							
Wire connection cross section, finely stranded, max.	2.5 mm ²						
Operating voltage, max.	250 V						
Temperature classes	T4, T5, T6						
Enclosure assembly							
1 Position in enclosure	Light module - red						
2 Position in enclosure	Pushbutton - red						
3 Position in enclosure	Light module - green						
4 Position in enclosure	Pushbutton - green						
Contact design	2 NC contact, 2 NO contacts						
Actuators	Pushbutton						
Actuator colour	green, red						
Illumination module colour	red, green						
Illuminated button actuator colour							
Cable entries							
Drill holes side B	1 x M25						
Cable gland	1460070000 - VG M25 EXE MS						
Clamping range min. / max.	10 mm / 18 mm						
Approval and identification							
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31						
Approvals	IECEXITA14.0013X						
Marking	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIC T80/100 °C IP66 Db						
Accessories							
Mounting feet	9527590000 - KLIPPON K MF KIT 25						
Note							
Ordering data							
	<table border="1"> <thead> <tr> <th>Type</th> <th>Qty.</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td>KLIPPON CS K51-4</td> <td>1</td> <td>1537580000</td> </tr> </tbody> </table>	Type	Qty.	Order No.	KLIPPON CS K51-4	1	1537580000
Type	Qty.	Order No.					
KLIPPON CS K51-4	1	1537580000					
Note	*For other temperature classes and connection values, see "Notice to Installer" or on request.						



HDC - Kits

HDC HP550 KIT 4F

HDC HP550 KIT 4M120



Technical data

Technical data		HDC HP550 KIT 4F	HDC HP550 KIT 4M120
Standards		DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373
Number of contacts		4	4
Wire connection method		Screw connection	Crimp connection
Rated current		550 A	550 A
Rated insulation voltage		1,500 V	1,500 V
Rated impulse withstand voltage		10 kV	10 kV
Surge voltage category		OV 3	OV 3
Pollution severity		PD 2	PD 2
Material			
Insulator		PA66 glass-fibre reinforced	PA66 glass-fibre reinforced
Contact		Copper alloy, silver plated	Copper alloy, silver plated
Protection degree to EN 60529		IP68 when interlocked	IP68 when interlocked
Colour		RAL 9005 (black)	RAL 9005 (black)
Surface finish		Powder-coated	Powder-coated
Temperature range		- 40...120 °C	- 40...120 °C
Material			
Enclosure		Die-cast aluminium alloy, corrosion resistant	Die-cast aluminium alloy, corrosion resistant
Sealing		Silicone rubber	EPDM

Note			
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Ordering data

Type	Qty.	Order No.
HDC HP550 KIT 4F	1	1396250000
HDC HP550 KIT 4M120	1	1506860000

Note		
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Accessories

Cable entries	Type	Qty.	Order No.
Nickel-plated brass	VGM40-MS68 20-32 BG	10	1193620000
Stainless steel	VGM40-SS68 20-32 BG	10	1193590000

Note		
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Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

HDC - Kits

HDC HP550 KIT 3F

HDC HP550 KIT 3M185



Technical data

Standards	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373
Number of contacts	3	3
Wire connection method	Screw connection	Crimp connection
Rated current	550 A	550 A
Rated insulation voltage	1,500 V	1,500 V
Rated impulse withstand voltage	10 kV	10 kV
Surge voltage category	OV 3	OV 3
Pollution severity	PD 2	PD 2
Material		
Insulator	PA66 glass-fibre reinforced	PA66 glass-fibre reinforced
Contact	Copper alloy	Copper alloy
Protection degree to EN 60529	IP68 when interlocked	IP68 when interlocked
Colour	RAL 9005 (black)	RAL 9005 (black)
Surface finish	Powder-coated	Powder-coated
Temperature range	- 40...120 °C	- 40...120 °C
Material		
Enclosure	Diecast aluminium	Diecast aluminium
Sealing	Silicone rubber	EPDM

Note		
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Ordering data

Type	Qty.	Order No.	Type	Qty.	Order No.
HDC HP550 KIT 3F	1	1396260000	HDC HP550 KIT 3M185	1	1506850000

Note		
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Accessories

Cable entries	Type	Qty.	Order No.	Type	Qty.	Order No.
Nickel-plated brass Stainless steel	VGM40-MS68 20-32 BG	10	1193620000	VGM40-MS68 20-32 BG	10	1193620000
	VGM40-SS68 20-32 BG	10	1193590000	VGM40-SS68 20-32 BG	10	1193590000

Note		
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Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



HDC - Enclosure

HDC HP550 ABGH BG

HDC HP550 ABGH 1P



Technical data

Technical data		
Standards	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373
Number of contacts	1	1
Wire connection method	Screw connection	
Rated current	550 A	550 A
Rated insulation voltage	1,500 V	1,500 V
Rated impulse withstand voltage	10 kV	10 kV
Surge voltage category	OV 3	OV 3
Pollution severity	PD 2	PD 2
Material		
Insulator	PA66 glass-fibre reinforced	PA66 glass-fibre reinforced
Contact	Copper alloy	
Protection degree to EN 60529	IP68 when interlocked	IP68 when interlocked
Colour	RAL 9005 (black)	RAL 9005 (black)
Surface finish	Powder-coated	Powder-coated
Temperature range	- 40...120 °C	- 40...120 °C
Material		
Enclosure	Diecast aluminium	Diecast aluminium
Sealing	Silicone rubber	Silicone rubber

Note

Ordering data

Type	Qty.	Order No.
HDC HP550 ABGH BG	1	1475700000
HDC HP550 ABGH 1P	1	1535420000

Note

Accessories

Type	Qty.	Order No.
Crimp contacts		
HDC HP 550 F 25	1	1220570000
HDC HP 550 F 35	1	1270510000
HDC HP 550 F 50	1	1177100000
HDC HP 550 F 70	1	1268820000
HDC HP 550 F 95	1	1079810000
HDC HP 550 F 120	1	1079820000
HDC HP 550 F 150	1	1079830000
HDC HP 550 F 185	1	1079840000
HDC HP 550 F 240	1	1120600000

Note

HDC - Kits

HDC HP550 KIT 1M 120

HDC HP550 KIT 1M185



Technical data

Standards	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373
Number of contacts	1
Wire connection method	Crimp connection
Rated current	550 A
Rated insulation voltage	1,500 V
Rated impulse withstand voltage	10 kV
Surge voltage category	OV 3
Pollution severity	PD 2
Material	
Insulator	PA66 glass-fibre reinforced
Contact	Copper alloy
Protection degree to EN 60529	IP68 when interlocked
Colour	RAL 9005 (black)
Surface finish	Powder-coated
Temperature range	- 40...120 °C
Material	
Enclosure	Diecast aluminium
Sealing	EPDM

Standards	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373
Number of contacts	1
Wire connection method	Crimp connection
Rated current	550 A
Rated insulation voltage	1,500 V
Rated impulse withstand voltage	10 kV
Surge voltage category	OV 3
Pollution severity	PD 2
Material	
Insulator	PA66 glass-fibre reinforced
Contact	Copper alloy
Protection degree to EN 60529	IP68 when interlocked
Colour	RAL 9005 (black)
Surface finish	Powder-coated
Temperature range	- 40...120 °C
Material	
Enclosure	Diecast aluminium
Sealing	EPDM

Standards	DIN EN 50124-1 in compliance with DIN EN 61984 DIN EN 50155 DIN EN 61373
Number of contacts	1
Wire connection method	Crimp connection
Rated current	550 A
Rated insulation voltage	1,500 V
Rated impulse withstand voltage	10 kV
Surge voltage category	OV 3
Pollution severity	PD 2
Material	
Insulator	PA66 glass-fibre reinforced
Contact	Copper alloy
Protection degree to EN 60529	IP68 when interlocked
Colour	RAL 9005 (black)
Surface finish	Powder-coated
Temperature range	- 40...120 °C
Material	
Enclosure	Diecast aluminium
Sealing	EPDM

Note

Ordering data

Note	
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Type	Qty.	Order No.
HDC HP550 KIT 1M 120	1	1470130000

Type	Qty.	Order No.
HDC HP550 KIT 1M 185	1	1488220000

Accessories

Cable entries	Nickel-plated brass Stainless steel
Note	

Type	Qty.	Order No.
VGM40-MS68 20-32 BG	10	1193620000
VGM40-SS68 20-32 BG	10	1193590000

Type	Qty.	Order No.
VGM40-MS68 20-32 BG	10	1193620000
VGM40-SS68 20-32 BG	10	1193590000

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

HDC HP ABGH COVER



Type	Qty.	Order No.
HDC HP ABGH COVER	1	1473470000

HDC HP SUKA 1P 550A



Type	Qty.	Order No.
HDC HP SUKA 1P 550A	10	1479130000

HDC HP550 CP



Type	Qty.	Order No.
HDC HP550 CP	200	1475840000

HDC HP550 MTA 3P SET



Type	Qty.	Order No.
HDC HP550 MTA 3P SET	1	1488230000

HDC HP550 MTA 4P SET



Type	Qty.	Order No.
HDC HP550 MTA 4P SET	1	1488280000



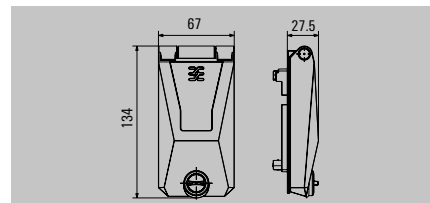
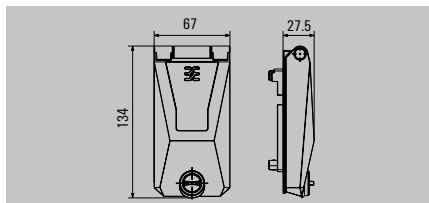
FrontCom® Vario

Frame

- IP 65

Metal cover

Plastic cover



Technical data

Protection degree
Material cover
Material frame
Ambient temperature (operational)
Approvals

IP 65 in enclosed state
Zinc diecast, powder-coated
Zinc diecast
-40 °C...+70 °C

IP 65 in enclosed state
Polycarbonate PC
Zinc diecast
-40 °C...+70 °C

Note

Ordering data

Button operation
Lockable with key

Type	Qty.	Order No.
IE-FC-SFM-KNOB	1	1450530000
IE-FC-SFM-KEY	1	1450540000

Type	Qty.	Order No.
IE-FC-SFP-KNOB	1	1450510000
IE-FC-SFP-KEY	1	1450520000

Note

Accessories

Spare key

Type	Qty.	Order No.
IE-FC-KEY	1	1465930000

Type	Qty.	Order No.
IE-FC-KEY	1	1465930000

Markers

white
silver
light grey

SM 27/18 K MC NE WS	80	1707270000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
ESG 7/20 SIRIUS MC NE WS	200	1736181044

SM 27/18 K MC NE WS	80	1707270000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
ESG 7/20 SIRIUS MC NE WS	200	1736181044

Markers for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

IE-FC-PWPC	1	1450820000
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IE-FC-PWPC	1	1450820000
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Note

Technical data

Machinery

Process

Energy

Transportation

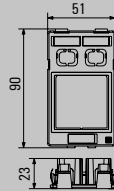
Device Manufacturers

FrontCom® Vario

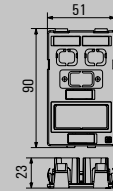
Insert plates

- IP 20

1x Power, 2x Data



1x Power, 2x Data, 1x Signal



Technical data

Material	Polycarbonate PC
Insert, data	2
Insert, signal, D-Sub, 9-pole	1
Insert, signal, D-Sub, 25-pole	1
Insert Power large	1
Insert Power small	1
Insert Power US	1
Ambient temperature (operational)	-40 °C...+70 °C
Approvals	
Note	

Material	Polycarbonate PC
Insert, data	2
Insert, signal, D-Sub, 9-pole	1
Insert, signal, D-Sub, 25-pole	1
Insert Power large	1
Insert Power small	1
Insert Power US	1
Ambient temperature (operational)	-40 °C...+70 °C
Approvals	
Note	

Material	Polycarbonate PC
Insert, data	2
Insert, signal, D-Sub, 9-pole	1
Insert, signal, D-Sub, 25-pole	1
Insert Power large	1
Insert Power small	1
Insert Power US	1
Ambient temperature (operational)	-40 °C...+70 °C
Approvals	
Note	

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 DE	
Socket FR	
Socket GB	
Socket CH	
Socket CN	
Socket AU	
Socket EU	
Socket IT	
Inserts, Signal	
D-Sub, 9-pole, female / male	
D-Sub, 9-pole, female / solder connection	
D-Sub, 9-pole, female / female	
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 2.0 A / B	
USB 3.0 A / A	
Markers	
Markers for touch-safe protection and insert plates	
Touch-safe protection	
Touch-safe protection	
Note	

Type	Qty.	Order No.
IE-FCI-PWB-DE	10	1450730000
IE-FCI-PWB-FR	10	1450750000
IE-FCI-PWB-GB	10	1450770000
IE-FCI-PWB-CH	10	1450780000
IE-FCI-PWB-CN	10	1450790000
IE-FCI-PWB-AU	10	1450830000
IE-FCI-PWS-EU	10	1450740000
IE-FCI-PWS-IT	10	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-AB	10	1131380000
IE-BI-USB-3.0-A	10	1487920000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Type	Qty.	Order No.
IE-FCI-PWS-EU	10	1450740000
IE-FCI-PWS-IT	10	1450810000
IE-FCI-D9-FM	10	1450850000
IE-FCI-D9-FS	10	1450870000
IE-FCI-D9-FF	10	1450840000
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-AB	10	1131380000
IE-BI-USB-3.0-A	10	1487920000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

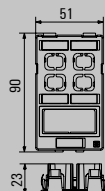


FrontCom® Vario

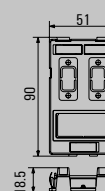
Insert plates

- IP 20

1x Power, 4x Data



1x Power, 2x Signal



Technical data

Material	Polycarbonate PC
Insert, data	4
Insert, signal, D-Sub, 9-pole	
Insert, signal, D-Sub, 25-pole	
Insert Power large	
Insert Power small	1
Insert Power US	
Ambient temperature (operational)	-40 °C...+70 °C
Approvals	
Note	

Material	Polycarbonate PC
Insert, data	4
Insert, signal, D-Sub, 9-pole	
Insert, signal, D-Sub, 25-pole	
Insert Power large	
Insert Power small	1
Insert Power US	
Ambient temperature (operational)	-40 °C...+70 °C
Approvals	
Note	

Material	Polycarbonate PC
Insert, data	2
Insert, signal, D-Sub, 9-pole	
Insert, signal, D-Sub, 25-pole	
Insert Power large	
Insert Power small	1
Insert Power US	
Ambient temperature (operational)	-40 °C...+70 °C
Approvals	
Note	

Ordering data

	shielded
	unshielded
Note	

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

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

Accessories

Inserts, Power	
	Socket EU
	Socket IT
Inserts, Signal	
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection
	D-Sub, 9-pole, female / female
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 2.0 A / B
	USB 3.0 A / A
Markers	
	Markers for touch-safe protection and insert plates
Touch-safe protection	
	Touch-safe protection

Type	Qty.	Order No.
IE-FCI-PWS-EU	10	1450740000
IE-FCI-PWS-IT	10	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-AB	10	1131380000
IE-BI-USB-3.0-A	10	1487920000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Type	Qty.	Order No.
IE-FCI-PWS-EU	10	1450740000
IE-FCI-PWS-IT	10	1450810000
IE-FCI-D9-FM	10	1450850000
IE-FCI-D9-FS	10	1450870000
IE-FCI-D9-FF	10	1450840000
IE-FCI-PWPC	1	1450820000

Note	
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Note	
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Note	
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Technical data

Machinery

Process

Energy

Transportation

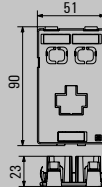
Device Manufacturers

FrontCom® Vario

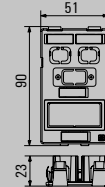
Insert plates

- IP 20

1x Power, 2x Data



2x Data, 2x Signal



Technical data

Material
Insert, data
Insert, signal, D-Sub, 9-pole
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals
Note

Polycarbonate PC
2
1
-40 °C...+70 °C
Note

Polycarbonate PC
2
-40 °C...+70 °C
Note

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-SP-2ST/2D9	1	1450590000
IE-FC-IP-2ST/2D9	1	1450670000

Accessories

Inserts, Power
Inserts, Signal
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
D-Sub, 9-pole, female / female
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 2.0 A / B
USB 3.0 A / A
Markers
Markers for touch-safe protection and insert plates
Touch-safe protection
Touch-safe protection
Note

Type	Qty.	Order No.
IE-FCI-PWS-US	10	1450800000
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-AB	10	1131380000
IE-BI-USB-3.0-A	10	1487920000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

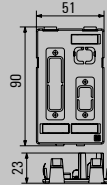
Type	Qty.	Order No.
IE-FCI-D9-FM	10	1450850000
IE-FCI-D9-FS	10	1450870000
IE-FCI-D9-FF	10	1450840000
IE-BI-RJ45-C	10	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-AB	10	1131380000
IE-BI-USB-3.0-A	10	1487920000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

FrontCom® Vario

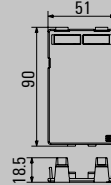
Insert plates

- IP 20

1x Data, 2x Signal



blank plate



Technical data

Material
Insert, data
Insert, signal, D-Sub, 9-pole
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals
Note

Polycarbonate PC
1
1
1
-40 °C...+70 °C
Note

Polycarbonate PC
-40 °C...+70 °C
Note

Ordering data

	shielded
	unshielded
Note	

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

Type	Qty.	Order No.
IE-FC-IP-BP	1	1450710000

Accessories

Inserts, Signal	
	D-Sub, 9-pole, female / male
	D-Sub, 9-pole, female / solder connection
	D-Sub, 9-pole, female / female
	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 2.0 A / B
	USB 3.0 A / A
Markers	
	Markers for touch-safe protection and insert plates
Touch-safe protection	
	Touch-safe protection

Type	Qty.	Order No.
IE-FCI-D9-FM	10	1450850000
IE-FCI-D9-FS	10	1450870000
IE-FCI-D9-FF	10	1450840000
IE-FCI-D25-FM	10	1450890000
IE-FCI-D25-FS	10	1450900000
IE-FCI-D25-FF	10	1450880000
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-AB	10	1131380000
IE-BI-USB-3.0-A	10	1487920000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Type	Qty.	Order No.

Note

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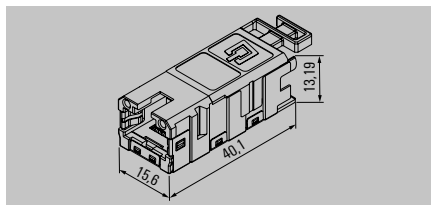
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Data inserts

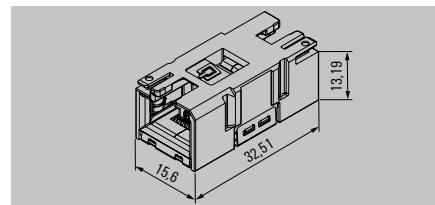
RJ45

- Cat. 6_A
- IP 20
- For housing variants 1, 4, 5, 14 and for FrontCom®

Module



Coupling



Technical data

Protection degree
Plugging cycles
Shielding
Housing main material
Contact surface
Connection cross-section, flexible, min. / max.
Connection cross-section, solid, min. / max.
Insulation diameter, min. / max.
Connector standard
Ambient temperature (operational)
PoE / PoE+
Approvals
Note

IP 67 with housing
750
360°, all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 µm
AWG 26 / AWG 22
AWG 24 / AWG 22
0.85 mm...1.6 mm
IEC 60603-7-51
-40 °C...+70 °C
conforming to IEEE 802.3af
cULus; GOSTME25

IP 67 with housing
750
360°, all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 µm
IEC 60603-7-51
-40 °C...+70 °C
conforming to IEEE 802.3af
cULus; GOSTME25

Ordering data

tool-free	
	TIA-A. Cat. 6 _A
	TIA-B. Cat. 6 _A
	PROFINET Cat. 5
	Coupling
Note	

Type	Qty.	Order No.
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000

Type	Qty.	Order No.
IE-BI-RJ45-C	10	1962840000

Accessories

Tools
Optional pressing tool

Type	Qty.	Order No.
PWZ RJ45	1	1118040000

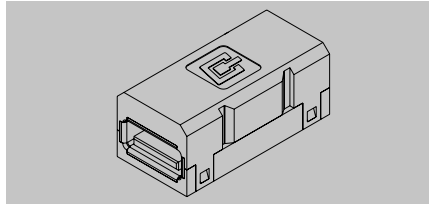
Type	Qty.	Order No.

Note

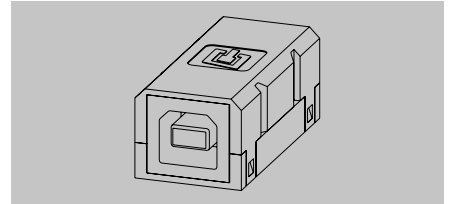
Data inserts
USB

- Cat. 6_A
- IP 20
- 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

IP 67 with housing
360°, all-round enclosure
-40 °C...+70 °C
USB A / USB A
IEC 61076-3-107

IP 67 with housing
360°, all-round enclosure
-40 °C...+70 °C
USB A / USB B
IEC 61076-3-107
GOSTME25

Note

Ordering data

Type	Qty.	Order No.
USB 2.0		
USB 3.0		

Type	Qty.	Order No.
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000

Type	Qty.	Order No.
IE-BI-USB-AB	10	1131380000

Note

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Type	Qty.	Order No.

Note

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

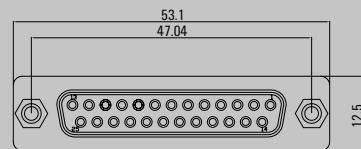
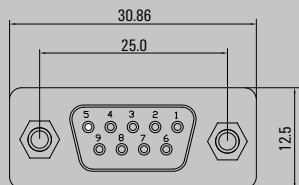
Signal inserts

D-Sub

- IP 20

9-pole

25-pole



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

IP 20
 SPCC
 9
 tin-plated
 Gold-plated
 $\leq 20 \text{ m}\Omega$
 1,000 M Ω at 500 V DC
 1 kV_{eff} / 1 min.
 -55 °C...+105 °C

IP 20
 SPCC
 25
 tin-plated
 Gold-plated
 $\leq 20 \text{ m}\Omega$
 1,000 M Ω at 500 V DC
 1 kV_{eff} / 1 min.
 -55 °C...+105 °C

Note

Ordering data

Female / Female
 Female / Male
 Female / Solder connection

Type	Qty.	Order No.
IE-FCI-D9-FF	10	1450840000
IE-FCI-D9-FM	10	1450850000
IE-FCI-D9-FS	10	1450870000

Type	Qty.	Order No.
IE-FCI-D25-FF	10	1450880000
IE-FCI-D25-FM	10	1450890000
IE-FCI-D25-FS	10	1450900000

Note

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Note

Technical data

Machinery

Process

Energy

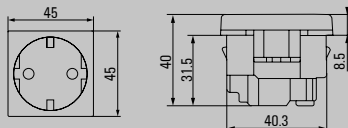
Transportation

Device Manufacturers

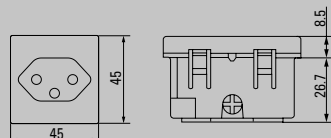
**Power inserts
Sockets**

- IP 20

Germany



Switzerland



Technical data

Protection degree
Housing main material
Type of connection
Connection cross-section
Stripping length
Rated voltage (AC)
Rated current
Ambient temperature (operational)
Approvals

IP 20
Polycarbonate PC
PUSH IN
2 x 2.5 mm²
13 mm
250 V
16 A
-5 °C...+50 °C

IP 20
Polycarbonate PC
PUSH IN
2 x 1.5 mm²
10 mm
250 V
10 A
-5 °C...+50 °C

Note

Ordering data

Type	Qty.	Order No.
IE-FCI-PWB-DE	10	1450730000

Type	Qty.	Order No.
IE-FCI-PWB-CH	10	1450780000

Note

Accessories

Type	Qty.	Order No.
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Type	Qty.	Order No.
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Note

Technical data

Machinery

Process

Energy

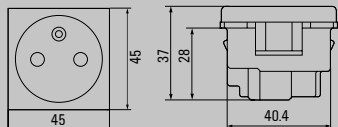
Transportation

Device
Manufacturers

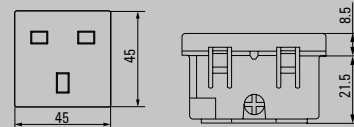
**Power inserts
Sockets**

- IP 20

France



UK



Technical data

Protection degree
Housing main material
Type of connection
Connection cross-section
Stripping length
Rated voltage (AC)
Rated current
Ambient temperature (operational)
Approvals
Note

IP 20
Polycarbonate PC
PUSH IN
2 x 2.5 mm ²
13 mm
250 V
16 A
-5 °C...+50 °C
Note

IP 20
Polycarbonate PC
Screw connection
2 x 4 mm ²
9 mm
250 V
13 A
-5 °C...+50 °C
Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWB-FR	10	1450750000

Type	Qty.	Order No.
IE-FCI-PWB-GB	10	1450770000

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

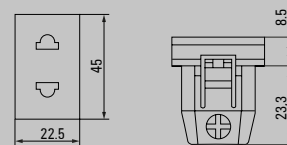
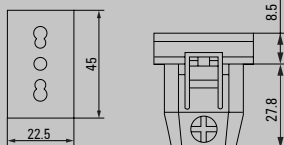
Power inserts

Sockets

- IP 20

Italy

Euro



Technical data

Protection degree
Housing main material
Type of connection
Connection cross-section
Stripping length
Rated voltage (AC)
Rated current
Ambient temperature (operational)
Approvals
Note

IP 20
Polycarbonate PC
Screw connection
2 x 4 mm ²
9 mm
250 V
16 A
-5 °C...+50 °C
Note

IP 20
Polycarbonate PC
Screw connection
2 x 4 mm ²
9 mm
250 V
16 A
-5 °C...+50 °C
Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWS-IT	10	1450810000
Note		

Type	Qty.	Order No.
IE-FCI-PWS-EU	10	1450740000
Note		

Accessories

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Type	Qty.	Order No.

Type	Qty.	Order No.

Note

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Technical data

Machinery

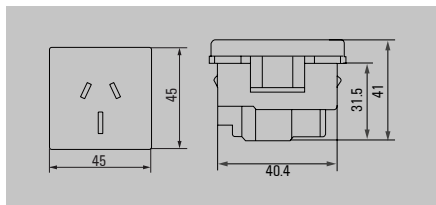
Process

Energy

Transportation

Device
Manufacturers

Australia

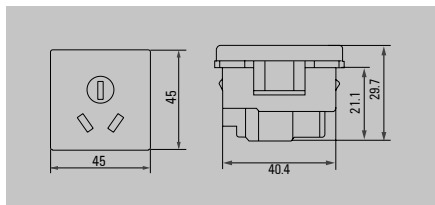


IP 20
Polycarbonate PC
Screw connection
2 x 4 mm ²
9 mm
240 V
15 A
-5 °C...+50 °C

Type	Qty.	Order No.
IE-FCI-PWB-AU	10	1450830000

Type	Qty.	Order No.

China

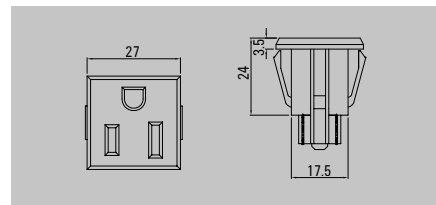


IP 20
Polycarbonate PC
Screw connection
2 x 4 mm ²
9 mm
250 V
10 A
-5 °C...+50 °C

Type	Qty.	Order No.
IE-FCI-PWB-CN	10	1450790000

Type	Qty.	Order No.

USA



IP 20
PA 66
Solder connection, FS 4.8 x 0.8
125 V
15 A
-20 °C...+85 °C

Type	Qty.	Order No.
IE-FCI-PWS-US	10	1450800000

For US socket the touch-safe protection is mandatory

Type	Qty.	Order No.

Technical data

Machinery

Process

Energy

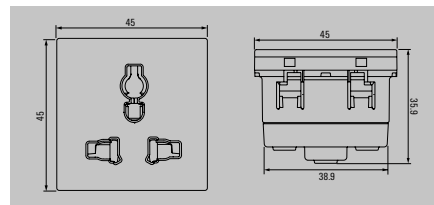
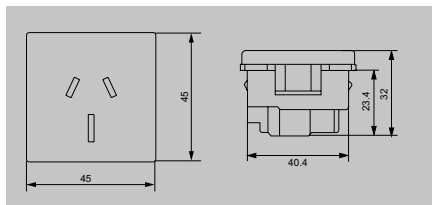
Transportation

Device Manufacturers

Power inserts
Sockets

Australia

Multi-contact



Technical data

Housing main material
Rated voltage (AC)
Rated current
Type of connection
Connection cross-section
Stripping length
Note

Polycarbonate PC
240 V
10 A
Screw connection
2 x 4 mm ²
13 mm
Note

Polycarbonate PC
250 V / 127 V
5 A / 6 A / 10 A / 13 A / 15 A
Screw connection
2 x 2.5 mm ²
8 mm
Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCH-PWB-AU-10A	10	1546590000

Type	Qty.	Order No.
IE-FCH-PWB-MC	10	1529570000

Accessories

Note

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

Note

Note

Note

Technical data

Machinery

Process

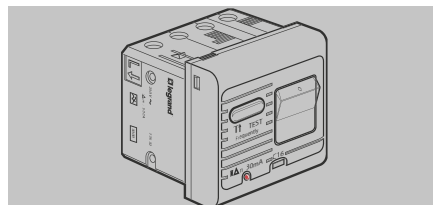
Energy

Transportation

Device
Manufacturers

Power inserts
RCBO

RCBO



Technical data

Ambient temperature (operational)
Operating voltage
Rated current
$I_{\Delta n}$
$I_{\Delta n}$
Tripping characteristic
Note

-5 °C...40 °C
230 V AC
16 A
500 A
30 mA
Typ C

Ordering data

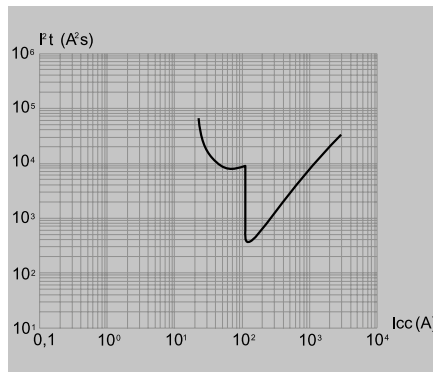
Note

Type	Qty.	Order No.
IE-FCH-PWB-RCBO	10	1534250000

Accessories

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Type	Qty.	Order No.



Note

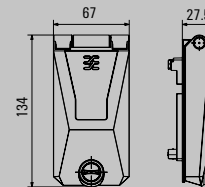
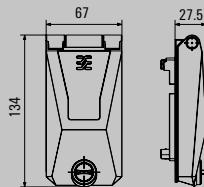
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Sets

2x Data 1x Power DE

2x Data 1x Power MC



Technical data

Frame
Insert plate
Data inserts
Power inserts
Rated voltage for socket
Rated current for socket
Protection degree
Products included in the set
Note

Plastic cover
2x data, 1x power, Shielded
USB 2.0 A/A, RJ45 coupling Cat.6 _A
Socket DE
250 V
16 A
IP 65 in enclosed state
1450510000;1450550000;1450730000;1019570000;1962840000
Note

Metal cover, Lockable with key
2x data, 1x power, Shielded
2 x RJ45 coupling Cat.6 _A
Multicontact socket for: EU, US, CN, GB, IND
127 V, 250 V
15 A (at 127 V), 5 - 6 - 10 - 13 A (at 250 V)
IP 65 in enclosed state
1450540000;1450550000;1529570000;1962840000
Note

Ordering data

Note

Type	Qty.	Order No.
IE-FC-SET-SPDED001-KN-P	1	1529580000
Note		

Type	Qty.	Order No.
IE-FC-SET-SPMCD002-KY-M	1	1529390000
Note		

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



Technical data

Machinery

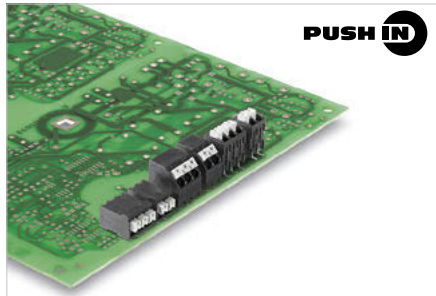
Process

Energy

Transportation

Device Manufacturers

LSF-SMD 3.5/././90



PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 90°

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	12	10
AWG conductor	AWG	24-16	
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

Accessories

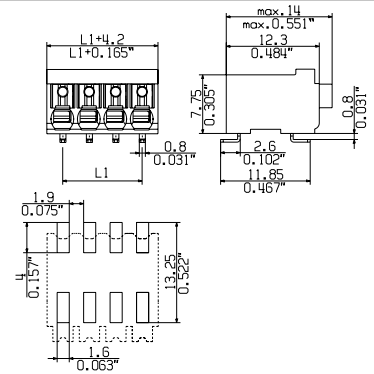
Screwdriver	Order No.
SDIS 0.4X2.5X75	9008370000
SDS 0.4X2.5X75	9009030000

LSF-SMD 3.5/././90

Reflow-compatible PCB terminal



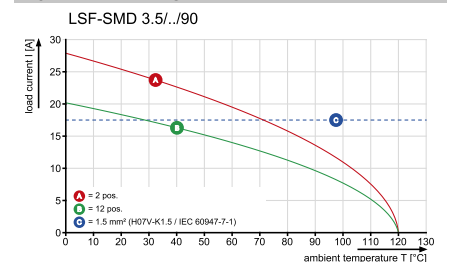
Dimensioned drawing



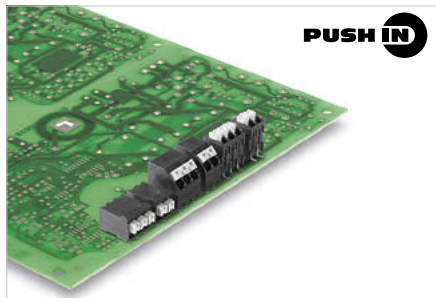
Ordering data

Solder pin length				
Colour	Black			
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	320	1412410000
3	7.00	0.276	320	1412420000
4	10.50	0.413	320	1473510000
5	14.00	0.551	320	1473520000
6	17.50	0.689	320	1473530000
7	21.00	0.827	320	1473540000
8	24.50	0.965	320	1473550000
9	28.00	1.102	320	1473570000
10	31.50	1.240	320	1473590000
11	35.00	1.378	320	1473620000
12	38.50	1.516	320	1473650000

Representative deratings curve



LSF-SMD 3.5/././135



PUSH IN

PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 135°

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

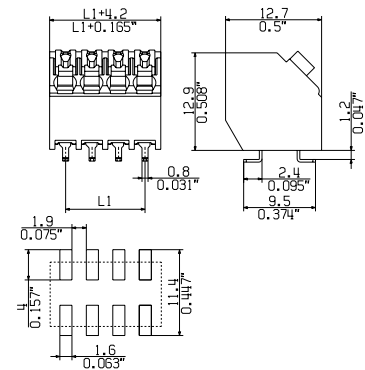


LSF-SMD 3.5/././135

Reflow-compatible PCB terminal





Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160 160 320	
Rated impulse voltage	kV	2.5 2.5 2.5	
UL / CUL (Use Group)	B C D		
Rated voltage	V	300 300	
Rated current	A	12 10	
AWG conductor	AWG	24-16	
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

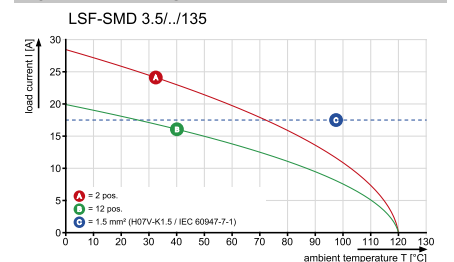
Accessories

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				
Colour	Black			
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	210	1473310000
3	7.00	0.276	210	1473320000
4	10.50	0.413	210	1473330000
5	14.00	0.551	210	1473340000
6	17.50	0.689	210	1473350000
7	21.00	0.827	210	1473370000
8	24.50	0.965	210	1473380000
9	28.00	1.102	210	1473390000
10	31.50	1.240	210	1473410000
11	35.00	1.378	210	1473420000
12	38.50	1.516	210	1473430000

Representative deratings curve



Technical data

Machinery

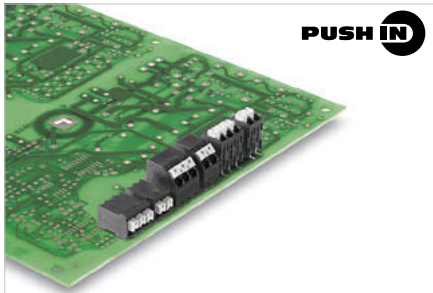
Process

Energy

Transportation

Device Manufacturers

LSF-SMD 3.50/180



PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 180°

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	12	10
AWG conductor	AWG	24-16	
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

Accessories

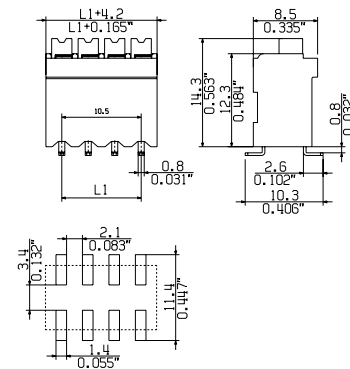
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

LSF-SMD 3.50/180

Reflow-compatible PCB terminal



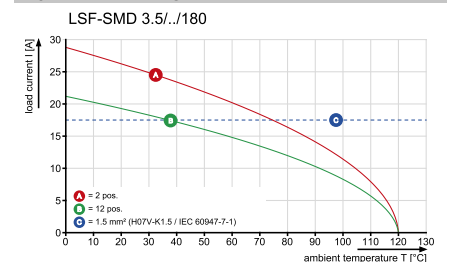
Dimensioned drawing



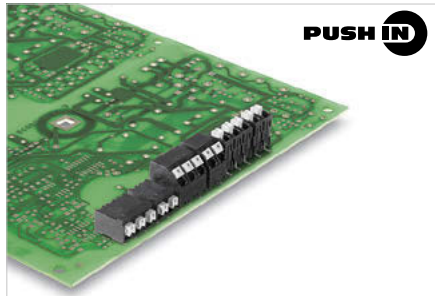
Ordering data

Solder pin length					
Colour					Black
Pitch		3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	3.50	0.138	180	1250360000	
3	7.00	0.276	180	1250370000	
4	10.50	0.414	180	1250380000	
5	14.00	0.552	180	1250390000	
6	17.50	0.690	180	1250410000	
7	21.00	0.828	180	1250420000	
8	24.50	0.966	180	1250430000	
9	28.00	1.104	180	1250440000	
10	31.50	1.242	180	1250450000	
11	35.00	1.380	180	1250460000	
12	38.50	1.518	180	1250470000	

Representative deratings curve



LSF-SMD 5.00/./90



PUSH IN

PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 90°

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

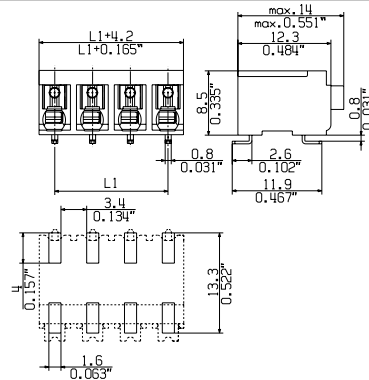


LSF-SMD 5.00/./90

Reflow-compatible PCB terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 500
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	12	10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

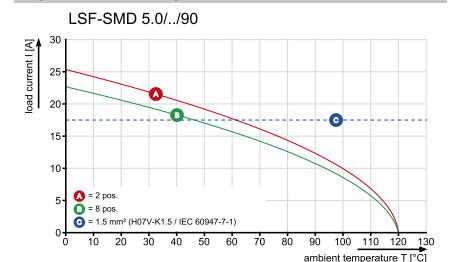
Accessories

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				
Colour	Black			
Pitch	5.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	320	1473770000
3	10.00	0.394	320	1473780000
4	15.00	0.591	320	1473790000
5	20.00	0.787	320	1473800000
6	25.00	0.984	320	1473810000
7	30.00	1.181	320	1473820000
8	35.00	1.378	320	1473830000

Representative deratings curve



Technical data

Machinery

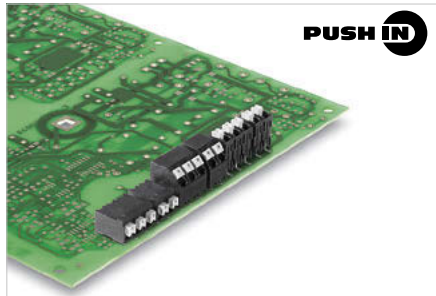
Process

Energy

Transportation

Device Manufacturers

LSF-SMD 5.00../135



PUSH IN

PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 135°

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 500
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	12	10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

Accessories

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

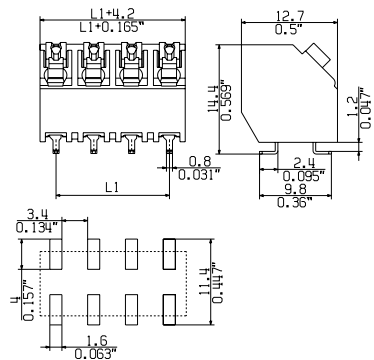
LSF-SMD 5.00../135

Reflow-compatible PCB terminal



SMD

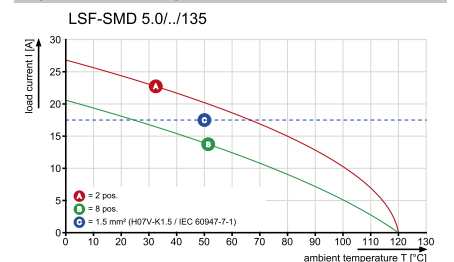
Dimensioned drawing



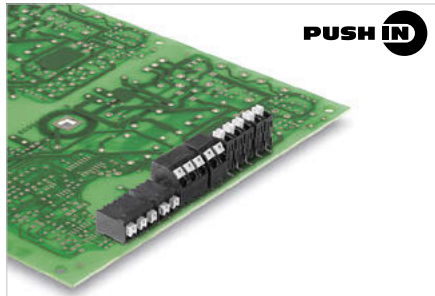
Ordering data

Solder pin length				
Colour	Black			
Pitch	5.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	210	1473690000
3	10.00	0.394	210	1473700000
4	15.00	0.591	210	1473710000
5	20.00	0.787	210	1473720000
6	25.00	0.984	210	1473740000
7	30.00	1.181	210	1473750000
8	35.00	1.378	210	1473760000

Representative deratings curve



LSF-SMD 5.00/./180



PUSH IN

PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 180°

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

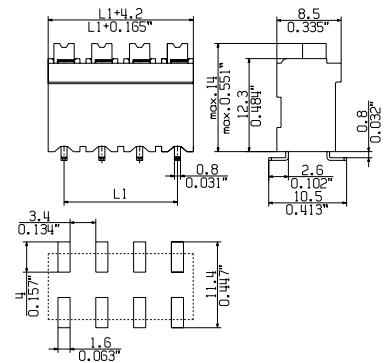


LSF-SMD 5.00/./180

Reflow-compatible PCB terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 500
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	12	10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

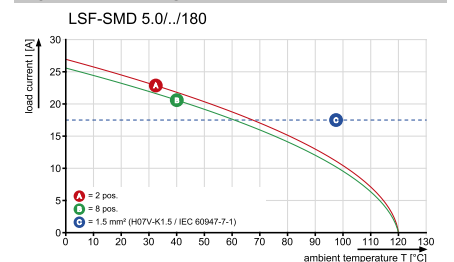
Accessories

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length					
Colour					Black
Pitch	5.00 mm		Qty.	Order No.	
2	L1	(inch)	180	1473560000	
3	10.00	0.394	180	1473580000	
4	15.00	0.591	180	1473610000	
5	20.00	0.787	180	1473640000	
6	25.00	0.984	180	1473660000	
7	30.00	1.181	180	1473670000	
8	35.00	1.378	180	1473680000	

Representative deratings curve



Technical data

Machinery

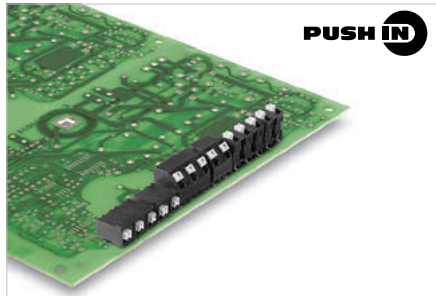
Process

Energy

Transportation

Device Manufacturers

LSF-SMD 7.50../90



PUSH IN

PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 90°

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	500	630 800
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	150 300
Rated current	A	12	10 10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	150 300
Rated current	A	10	10 10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

Accessories

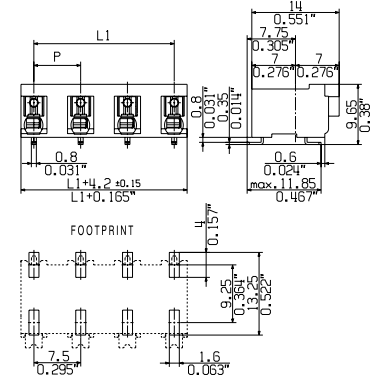
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

LSF-SMD 7.50../90

Reflow-compatible PCB terminal



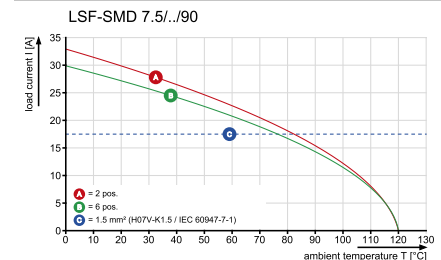
Dimensioned drawing



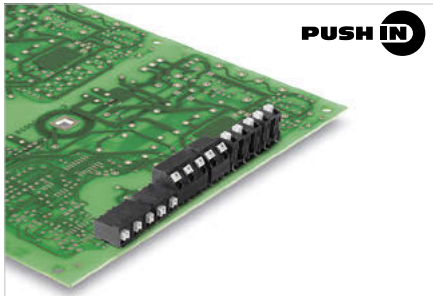
Ordering data

Solder pin length				
Colour	Black			
Pitch	7.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.50	0.295	320	1473940000
3	15.00	0.591	320	1473950000
4	22.50	0.886	320	1473960000
5	30.00	1.181	320	1473970000
6	37.50	1.476	320	1473980000

Representative deratings curve



LSF-SMD 7.50../135



PUSH IN

PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 135°

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	500	630 800
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	12	10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

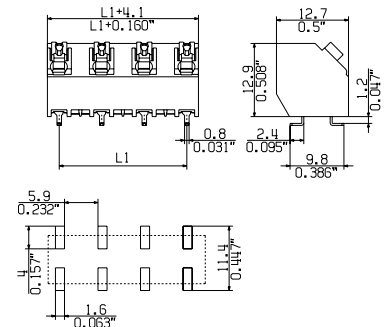


LSF-SMD 7.50../135

Reflow-compatible PCB terminal



Dimensioned drawing



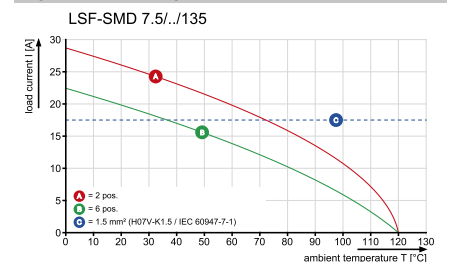
Accessories

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length					
Colour					Black
Pitch		7.50 mm			
Pol.	L1	(inch)	Qty.	Order No.	
2	7.50	0.295	210	1473890000	
3	15.00	0.591	210	1473900000	
4	22.50	0.886	210	1473910000	
5	30.00	1.181	210	1473920000	
6	37.50	1.476	210	1473930000	

Representative deratings curve



Technical data
 Machinery
 Process
 Energy
 Transportation
 Device Manufacturers

Technical data

Machinery

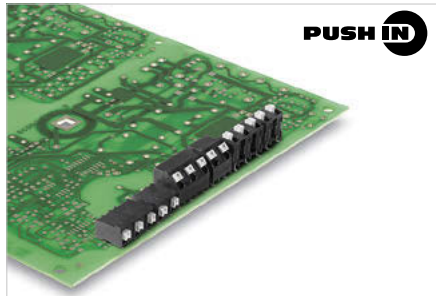
Process

Energy

Transportation

Device Manufacturers

LSF-SMD 7.50/./180



PCB terminal for fully automatic assembly using reflow soldering (SMD), with "PUSH IN" wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 180°

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
 UL: 300 V / 12 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmuller.com

Note:

- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Operating force of slider max. 40 N
- 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.
- Crimping shape „A“ for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.25...1.5	
Ferrule with plastic collar	mm ²	0.25...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range	Nm		
Rated current, max.	A	17.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	500	630 800
Rated impulse voltage	kV	6	6 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	150 300
Rated current	A	12	10 10
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	300	150 300
Rated current	A	10	10 10
AWG conductor	AWG	24-16	
General data			
Type of insulation material		LCP GF	
UL 94 flammability rating		V-0	
Contact base material		Copper alloy	
Material of contact surface		tinned	

Accessories

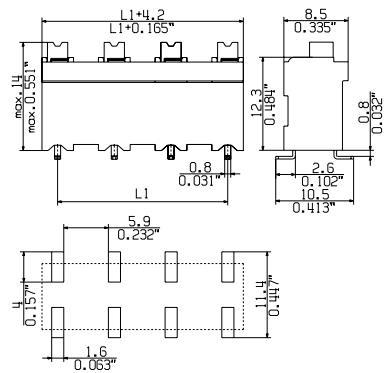
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

LSF-SMD 7.50/./180

Reflow-compatible PCB terminal



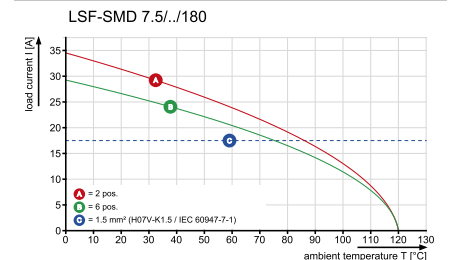
Dimensioned drawing



Ordering data

Solder pin length				
Colour	Black			
Pitch	7.50 mm		Qty.	Order No.
Pol.	L1	(inch)		
2	7.50	0.295	180	1473840000
3	15.00	0.591	180	1473850000
4	22.50	0.886	180	1473860000
5	30.00	1.181	180	1473870000
6	37.50	1.476	180	1473880000

Representative deratings curve



**Device
Manufacturers**



Transportation



Energy



Process



Machinery

Technical data

Stripping tools with automatic self-adjustment

- For flexible and solid conductors
- Ideally suitable for the mechanical and plane engineering, railway and rail traffic, wind energy, robot technology, explosion protection plus marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- Automatic opening of clamping jaws after stripping
- No splicing of single conductors
- Adjustable for different insulation thicknesses
- Cables with double insulation in two processing steps without special adjustment
- No play in self-adjusting cutting unit
- Long-lasting
- Optimised ergonomic design
- Selectable two-stage partial stripping

stripax® Ultimate

0.25...6 mm²



- Stripping and cutting of flexible and solid conductors from 0.25...6 mm² (~AWG 24... 10)
- Especially suitable for UL-specified conductors and halogen-free insulation materials



Technical data

Max. stripping performance	
Cable type	
Wire cross-section, min. max.	
Stripping length, max.	mm
Cutting performance	
Conductor cross-section (cutting capacity)	mm ²
Tool data	
Length	mm
Weight	g
Note	

STRIPAX ULTIMATE		
Flexible and solid conductors with halogen-free insulation		
0.25...6		
25		
6		
190		
175		
Note		

Ordering data

Version	
Note	

Type	Qty.	Order No.
STRIPAX ULTIMATE	1	1468880000
Note		

Accessories

Note	

Type	Qty.	Order No.
Replacement stripping blade	1	1471390000
Note		

MetalliCard

CC-M 10/30 2X2.5

30 mm

CC-M 27/70 2X3

70 mm



Technical data

Ambient temperature (operational)	-55 °C...130 °C
Width	30 mm
Length	10 mm
Drill-hole diameter	2.50 mm
Diameter	

Ambient temperature (operational)	-55 °C...130 °C
Width	70 mm
Length	27 mm
Drill-hole diameter	3.00 mm
Diameter	

Ambient temperature (operational)	-55 °C...130 °C
Width	70 mm
Length	27 mm
Drill-hole diameter	3.00 mm
Diameter	

Ordering data

MetalliCard Neutral	
Micro etching steel (ST)	
Chromal coated aluminum (AL)	
MetalliCard custom printing	
Micro etching steel (ST)	
Chromal coated aluminum (AL)	

Type	Qty.	Order No.
CC-M 10/30 2X2.5 ST	200	1500150000
CC-M 10/30 2X2.5 AL	200	1483780000
CC-M 10/30 2X2.5 ST SDR	1	1505150000
CC-M 10/30 2X2.5 AL SDR	1	1505140000

Type	Qty.	Order No.
CC-M 27/70 2X3 ST	80	1500190000
CC-M 27/70 2X3 AL	80	1500170000
CC-M 27/70 2X3 ST SDR	1	1505170000
CC-M 27/70 2X3 AL SDR	1	1505160000

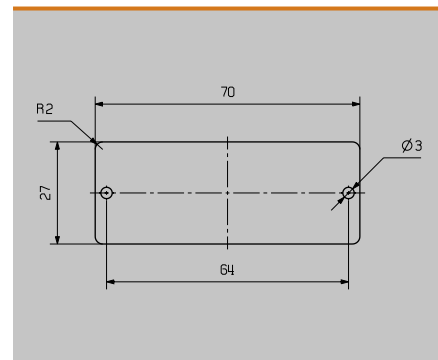
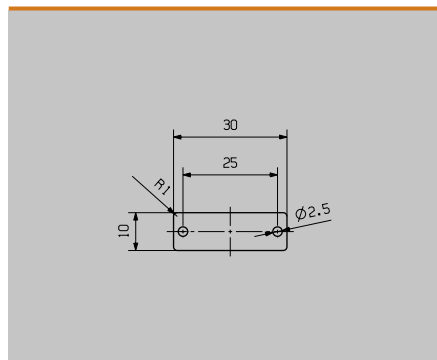
Accessories

Primer for pretreatment	
Adhesive label	
Inlay	
Inlay	

Type	Qty.	Order No.
PRIMER CC-M	1	1341200000
INLAY CC-M 10/30	1	1483770000

Type	Qty.	Order No.
PRIMER CC-M	1	1341200000
INLAY CC-M 27/70	1	1500290000

Technical drawing / application



MetalliCard

CC-M 43/70

70 mm



Technical data

Ambient temperature (operational)	-55 °C...130 °C
Width	70 mm
Length	43 mm
Drill-hole diameter	
Diameter	

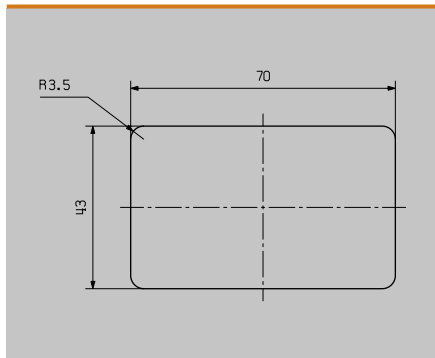
Ordering data

MetalliCard Neutral		Type	Qty.	Order No.
	Micro etching steel (ST)	CC-M 43/70 ST	80	1500220000
	Chromal coated aluminum (AL)	CC-M 43/70 AL	80	1500200000
MetalliCard custom printing				
	Micro etching steel (ST)	CC-M 43/70 ST SDR	1	1505190000
	Chromal coated aluminum (AL)	CC-M 43/70 AL SDR	1	1505180000

Accessories

Type	Qty.	Order No.
Primer for pretreatment	1	1341200000
Adhesive label	1	1500340000
Inlay	1	1500300000
Inlay		

Technical drawing / application



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

MetalliCard

SFX-M 12/40-5

40 mm

SFX-M 17/60-5

60 mm



Technical data

Ambient temperature (operational)	-55 °C...130 °C
Width	40 mm
Length	12 mm
Drill-hole diameter	
Diameter	

Ambient temperature (operational)	-55 °C...130 °C
Width	60 mm
Length	17 mm
Drill-hole diameter	
Diameter	

Ambient temperature (operational)	-55 °C...130 °C
Width	60 mm
Length	17 mm
Drill-hole diameter	
Diameter	

Ordering data

MetalliCard Neutral	
Micro etching steel (ST)	SFX-M 12/40-5 ST
Chromal coated aluminum (AL)	SFX-M 12/40-5 AL
MetalliCard custom printing	
Micro etching steel (ST)	SFX-M 12/40-5 ST SDR
Chromal coated aluminum (AL)	SFX-M 12/40-5 AL SDR

Type	Qty.	Order No.
SFX-M 12/40-5 ST	50	1500240000
SFX-M 12/40-5 AL	50	1500230000
SFX-M 12/40-5 ST SDR	1	1505220000
SFX-M 12/40-5 AL SDR	1	1505210000

Type	Qty.	Order No.
SFX-M 17/60-5 ST	50	1500270000
SFX-M 17/60-5 AL	50	1500250000
SFX-M 17/60-5 ST SDR	1	1505240000
SFX-M 17/60-5 AL SDR	1	1505230000

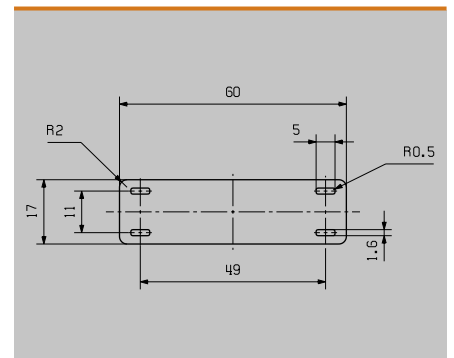
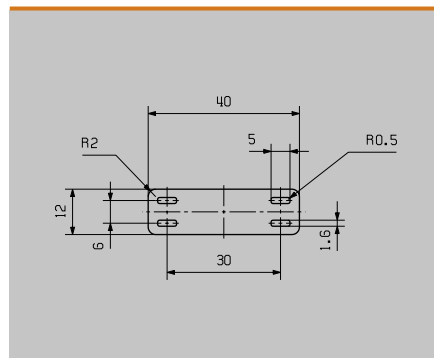
Accessories

Primer for pretreatment	PRIMER CC-M
Adhesive label	INLAY SFX-M 11/60
Inlay	INLAY CC-M UNIVERSAL

Type	Qty.	Order No.
PRIMER CC-M	1	1341200000
INLAY SFX-M 11/60	1	1341110000
INLAY CC-M UNIVERSAL	1	1341120000

Type	Qty.	Order No.
PRIMER CC-M	1	1341200000
INLAY SFX-M 17/60	1	1500330000

Technical drawing / application





**Device
Manufacturers**



Transportation



Energy



Process



Machinery

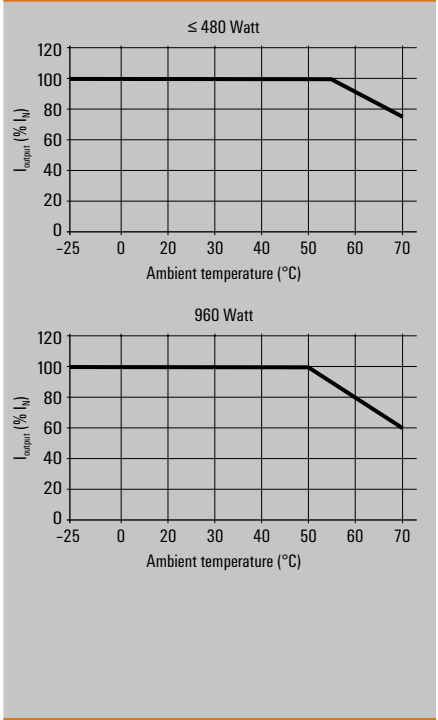
Technical data

PROeco power supplies with basic functionality and a high level of reliability

- Single- and three-phase switched-mode power supply units
- Slim design
- Large temperature range from -25 °C to 70 °C
- The output voltage can be precisely adjusted via the potentiometer on the front
- Remote monitoring via integrated status relay
- Three-coloured LED indicators for simple error detection
- Advanced visual warning at 90 % rated output current
- International approvals



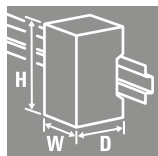
Derating curves



Technical data

General technical data	
Ambient temp. operating / storage temperature	-25 °C...+70 °C / -40 °C...+85 °C
Max. perm. air humidity (operation)	5 %...95 % RH
Degree of protection	IP 20
Class of protection	I, with PE connection
Pollution degree	2
Insulation voltage input/output	3 kV E/A / 2 kV E/earth / 0.5 kV A/earth
MTBF	> 500.000 h acc. to IEC 1709 (SN29500)
Parallel connection option	yes, max. 5 without diode module
Housing version	metal, corrosion resistant
Mounting position, installation notice	horizontal on mounting rail TS35, 50 mm spacing top and bottom for free air circulation
Short-circuit protection	Yes, automatic restart
Overload protection	Yes, IU characteristic curve
Overtemperature protection	Yes, automatic restart
EMC / shock / vibration	
Noise emission acc. to EN55022	Class B
Noise immunity tests acc. to	EN61000-4-2 (ESD), EN61000-4-3 and EN61000-4-8 (Fields), EN61000-4-4 (Burst), EN61000-4-5 (Surge), EN61000-4-6 (conducted), EN61000-4-11 (Dips)
Limiting of mains voltage harmonic currents	Acc. to EN61000-3-2
Resistance against vibration and shock	1 g acc. to EN50178, shock: 15 g in all directions
Electrical safety (applied standards)	
Electrical equipment of machines	Acc. to EN60204
Safety transformers for switched-mode power units	Acc. to EN61558-2-17
Machinery with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950-1, PELV acc. to EN60204-1
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

PROeco



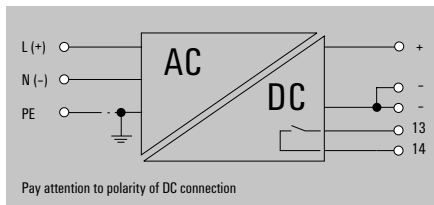
Technical data

Input		
Rated input voltage	100 ... 240 V AC	
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)	
AC frequency range	47 ... 63 Hz	
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)	
AC current consumption	0.55 A @ 230 V AC / 1.04 A @ 110 V AC	
DC current consumption	0.22 A @ 370 V DC / 0.68 A @ 120 V DC	
Input fuse (internal) / inrush current	Yes / max. 40	
Recommended back-up fuse	2 A / DI, Safety fuse 6 A, Char. B, Circuit breaker 2...4 A, Char. C, Circuit breaker	
Output		
Rated output voltage	24 V DC ± 1 %	
Output voltage	22...28 V DC (adjustable via potentiometer on front)	
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h	
Rated output current @ U _{rated}	3 A up to 55 °C	
Continuous output current @ 24 V DC	3 A @ 55 °C, 2.25 A @ 70 °C	
Capacitive load	Unrestricted	
Protection against reverse voltages from the load	30...35 V DC	
Protection against internal surge voltage	35 V DC	
Signalling		
DC OK	LED Green (U _{output} > 21.6 V DC)	
Alarm	LED Yellow (I _{output} > 90 % I _h)	
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)	
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A	
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC	
General data		
Efficiency	> 87 % @ 230 V AC & 3 A	
Power loss @ idling / nominal load	4 W / 9.5 W	
Earth discharge current	< 1 mA	
Power factor (approx.)	> 0.42 @ 230 V AC / > 0.45 @ 115 V AC	
Mains buffering @ I _{rated}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC	
Parallel connection option	yes, max. 5	
Height x width x depth / weight	125 / 34 / 100 mm / 0.5 kg	
Approvals		
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC	
Connection data		
Conductor connection system	Screw connection	
Number of terminals	3 for L/N/PE	
Wire cross-section, rigid min/max	0.5/6 mm ²	
Wire cross-section, flexible min/max	0.5/2.5 mm ²	
Wire cross-section, AWG/kcmil	26/12 min/max	
Min./max. tightening torque range	0.5/0.6 Nm	
Stripping length	6 mm	
Note		
Ordering data		
Type	Qty.	Order No.
PRO ECO 72W 24V 3A	1	1469470000
Note		
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.		

PRO ECO 72W 24V 3A



Similar to illustration

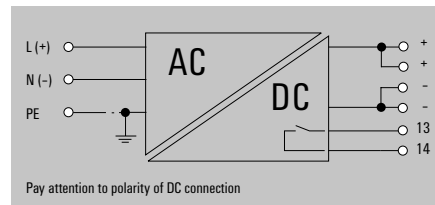


Input		
Rated input voltage	100 ... 240 V AC	
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)	
AC frequency range	47 ... 63 Hz	
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)	
AC current consumption	0.55 A @ 230 V AC / 1.04 A @ 110 V AC	
DC current consumption	0.22 A @ 370 V DC / 0.68 A @ 120 V DC	
Input fuse (internal) / inrush current	Yes / max. 40	
Recommended back-up fuse	2 A / DI, Safety fuse 6 A, Char. B, Circuit breaker 2...4 A, Char. C, Circuit breaker	
Output		
Rated output voltage	24 V DC ± 1 %	
Output voltage	22...28 V DC (adjustable via potentiometer on front)	
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h	
Rated output current @ U _{rated}	3 A up to 55 °C	
Continuous output current @ 24 V DC	3 A @ 55 °C, 2.25 A @ 70 °C	
Capacitive load	Unrestricted	
Protection against reverse voltages from the load	30...35 V DC	
Protection against internal surge voltage	35 V DC	
Signalling		
DC OK	LED Green (U _{output} > 21.6 V DC)	
Alarm	LED Yellow (I _{output} > 90 % I _h)	
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)	
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A	
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC	
General data		
Efficiency	> 87 % @ 230 V AC & 3 A	
Power loss @ idling / nominal load	4 W / 9.5 W	
Earth discharge current	< 1 mA	
Power factor (approx.)	> 0.42 @ 230 V AC / > 0.45 @ 115 V AC	
Mains buffering @ I _{rated}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC	
Parallel connection option	yes, max. 5	
Height x width x depth / weight	125 / 34 / 100 mm / 0.5 kg	
Approvals		
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC	
Connection data		
Conductor connection system	Screw connection	
Number of terminals	3 for L/N/PE	
Wire cross-section, rigid min/max	0.5/6 mm ²	
Wire cross-section, flexible min/max	0.5/2.5 mm ²	
Wire cross-section, AWG/kcmil	26/12 min/max	
Min./max. tightening torque range	0.5/0.6 Nm	
Stripping length	6 mm	
Note		
Type	Qty.	Order No.
PRO ECO 72W 24V 3A	1	1469470000
Note		
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.		

PRO ECO 120W 24V 5A



Similar to illustration



Input		
Rated input voltage	100 ... 240 V AC	
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)	
AC frequency range	47 ... 63 Hz	
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)	
AC current consumption	1.26 A @ 230 V AC / 2.24 A @ 110 V AC	
DC current consumption	0.39 A @ 370 V DC / 1.16 A @ 120 V DC	
Input fuse (internal) / inrush current	Yes / max. 40	
Recommended back-up fuse	4 A / DI, Safety fuse 6 A, Char. B, Circuit breaker 3...5 A, Char. C, Circuit breaker	
Output		
Rated output voltage	24 V DC ± 1 %	
Output voltage	22...28 V DC (adjustable via potentiometer on front)	
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h	
Rated output current @ U _{rated}	5 A up to 55 °C	
Continuous output current @ 24 V DC	5 A @ 55 °C, 3.75 A @ 70 °C	
Capacitive load	Unrestricted	
Protection against reverse voltages from the load	30...35 V DC	
Protection against internal surge voltage	35 V DC	
Signalling		
DC OK	LED Green (U _{output} > 21.6 V DC)	
Alarm	LED Yellow (I _{output} > 90 % I _h)	
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)	
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A	
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC	
General data		
Efficiency	> 87 % @ 230 V AC & 5 A	
Power loss @ idling / nominal load	4 W / 15 W	
Earth discharge current	< 1 mA	
Power factor (approx.)	> 0.47 @ 230 V AC / > 0.56 @ 115 V AC	
Mains buffering @ I _{rated}	> 80 ms @ 230 V AC / > 20 ms @ 115 V AC	
Parallel connection option	yes, max. 5	
Height x width x depth / weight	125 / 40 / 100 mm / 0.6 kg	
Approvals		
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC	
Connection data		
Conductor connection system	Screw connection	
Number of terminals	3 for L/N/PE	
Wire cross-section, rigid min/max	0.5/6 mm ²	
Wire cross-section, flexible min/max	0.5/2.5 mm ²	
Wire cross-section, AWG/kcmil	26/12 min/max	
Min./max. tightening torque range	0.5/0.6 Nm	
Stripping length	6 mm	
Note		
Type	Qty.	Order No.
PRO ECO 120W 24V 5A	1	1469480000
Note		
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.		



PROeco

PRO ECO 240W 24V 10A

PRO ECO 480W 24V 20A

Technical data

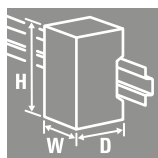
Machinery

Process

Energy

Transportation

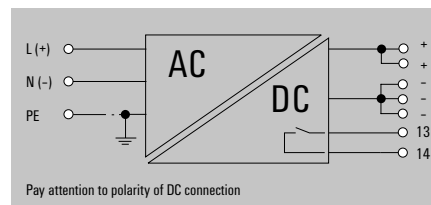
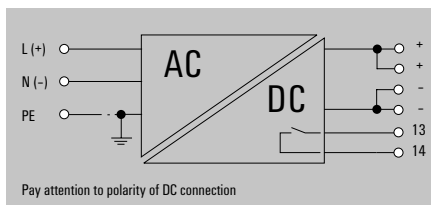
Device Manufacturers



Similar to illustration



Similar to illustration



Technical data

Input	
Rated input voltage	100 ... 240 V AC
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)
AC frequency range	47 ... 63 Hz
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)
AC current consumption	1.23 A @ 230 V AC / 2.47 A @ 110 V AC
DC current consumption	1.18 A @ 370 V DC / 2.4 A @ 120 V DC
Input fuse (internal) / inrush current	Yes / max. 15 A
Recommended back-up fuse	4 A / DI, Safety fuse 10 A, Char. B, Circuit breaker 3...4 A, Char. C, Circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	10 A up to 55 °C
Continuous output current @ 24 V DC	10 A @ 55 °C, 7.5 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC

Signalling	
DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC

General data	
Efficiency	> 90 % @ 230 V AC & 10 A
Power loss @ idling / nominal load	3 W / 24 W
Earth discharge current	< 1 mA
Power factor (approx.)	> 0.93 @ 230 V AC / > 0.99 @ 115 V AC
Mains buffering @ I _{rated}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 5
Height x width x depth / weight	125 / 60 / 100 mm / 1 kg

Approvals	
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC

Connection data	
Conductor connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5/6 mm ²
Wire cross-section, flexible min/max	0.5/2.5 mm ²
Wire cross-section, AWG/kcmil	26/12 min/max
Min./max. tightening torque range	0.5/0.6 Nm
Stripping length	6 mm

Note	

Ordering data

Type	Qty.	Order No.
PRO ECO 240W 24V 10A	1	1469490000

Note: The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

Input	
Rated input voltage	100 ... 240 V AC
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)
AC frequency range	47 ... 63 Hz
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)
AC current consumption	1.23 A @ 230 V AC / 2.47 A @ 110 V AC
DC current consumption	1.18 A @ 370 V DC / 2.4 A @ 120 V DC
Input fuse (internal) / inrush current	Yes / max. 15 A
Recommended back-up fuse	4 A / DI, Safety fuse 10 A, Char. B, Circuit breaker 3...4 A, Char. C, Circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	10 A up to 55 °C
Continuous output current @ 24 V DC	10 A @ 55 °C, 7.5 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC

Signalling	
DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC

General data	
Efficiency	> 90 % @ 230 V AC & 10 A
Power loss @ idling / nominal load	3 W / 24 W
Earth discharge current	< 1 mA
Power factor (approx.)	> 0.93 @ 230 V AC / > 0.99 @ 115 V AC
Mains buffering @ I _{rated}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 5
Height x width x depth / weight	125 / 60 / 100 mm / 1 kg

Approvals	
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC

Connection data	
Conductor connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5/6 mm ²
Wire cross-section, flexible min/max	0.5/2.5 mm ²
Wire cross-section, AWG/kcmil	26/12 min/max
Min./max. tightening torque range	0.5/0.6 Nm
Stripping length	6 mm

Note	

Type	Qty.	Order No.
PRO ECO 240W 24V 10A	1	1469490000

Note: The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

Input	
Rated input voltage	100 ... 240 V AC
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)
AC frequency range	47 ... 63 Hz
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)
AC current consumption	2.37 A @ 230 V AC / 5.2 A @ 110 V AC
DC current consumption	1.55 A @ 370 V DC / 4.65 A @ 120 V DC
Input fuse (internal) / inrush current	Yes / max. 3 A
Recommended back-up fuse	6 A / DI, Safety fuse 16 A, Char. B, Circuit breaker 6...8 A, Char. C, Circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	20 A up to 55 °C
Continuous output current @ 24 V DC	20 A @ 55 °C, 15 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC

Signalling	
DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC

General data	
Efficiency	> 91 % @ 230 V AC & 20 A
Power loss @ idling / nominal load	5 W / 43 W
Earth discharge current	< 1 mA
Power factor (approx.)	> 0.97 @ 230 V AC / > 0.99 @ 115 V AC
Mains buffering @ I _{rated}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 3
Height x width x depth / weight	125 / 100 / 120 mm / 1.6 kg

Approvals	
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC

Connection data	
Conductor connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5/6 mm ²
Wire cross-section, flexible min/max	0.5/2.5 mm ²
Wire cross-section, AWG/kcmil	26/10 min/max
Min./max. tightening torque range	0.5/0.6 Nm
Stripping length	6 mm

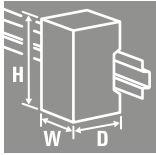
Note	

Type	Qty.	Order No.
PRO ECO 480W 24V 20A	1	1469510000

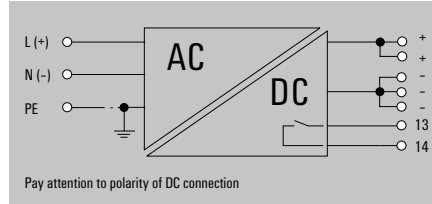
Note: The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

PROeco

PRO ECO 960W 24V 40A



Similar to illustration



Technical data

Input

- Rated input voltage
- AC input voltage range
- AC frequency range
- DC input voltage range
- AC current consumption
- DC current consumption
- Input fuse (internal) / inrush current
- Recommended back-up fuse

- 100 ... 240 V AC
- 85 ... 264 V AC (Derating @ 100 V AC)
- 47 ... 63 Hz
- 80 ... 370 DC (Derating @ 120 V DC)
- 4.6 A @ 230 V AC / 9.9 A @ 110 V AC
- 2.9 A @ 370 V DC / 9 A @ 120 V AC
- Yes / max. 3 A
- 16 A / DI, Safety fuse
- 20 A, Char. B, Circuit breaker
- 16 A, Char. C, Circuit breaker

Output

- Rated output voltage
- Output voltage
- Ramp-up time / residual ripple, switching peaks
- Rated output current @ U_{rated}
- Continuous output current @ 24 V DC
- Capacitive load
- Protection against reverse voltages from the load
- Protection against internal surge voltage

- 24 V DC \pm 1 %
- 22...28 V DC (adjustable via potentiometer on front)
- < 100 ms / < 50 mVSS @ 24 V DC, I_h
- 40 A up to 50 °C
- 40 A @ 50 °C, 24 A @ 70 °C
- Unrestricted
- 30...35 V DC
- 35 V DC

Signalling

- DC OK
- Alarm
- Error
- Voltage monitoring / no-voltage contact / contact load
- On/Off relay

- LED Green ($U_{output} > 21.6$ V DC)
- LED Yellow ($I_{output} > 90 \% I_R$)
- LED Red (Overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)
- Yes / NO contact / max. 30 V AC/DC 1 A
- Output voltage > 21.6 V DC / < 20.4 V DC

General data

- Efficiency
- Power loss @ idling / nominal load
- Earth discharge current
- Power factor (approx.)
- Mains buffering @ I_{rated}
- Parallel connection option
- Height x width x depth / weight

- > 93 % @ 230 V AC & 40 A
- 6 W / 76 W
- < 1 mA
- > 0.97 @ 230 V AC / > 0.99 @ 115 V AC
- > 20 ms @ 230 V AC / > 20 ms @ 115 V AC
- yes, max. 3
- 125 / 160 / 120 mm / 2.9 kg

Approvals

- Approvals

CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC

Connection data

- Conductor connection system
- Number of terminals
- Wire cross-section, rigid min/max mm²
- Wire cross-section, flexible min/max mm²
- Wire cross-section, AWG/kcmil min/max
- Min./max. tightening torque range Nm
- Stripping length mm

Input	Output
Screw connection	Screw connection
3 for L/N/PE	7 (13, 14, +, +, +, -, -)
0.18/6	0.5/16
0.5/2.5	2.5/10
26/10	22/8
0.5/0.6	1.2/1.5
7	12

Note

Ordering data

Type	Qty.	Order No.
PRO ECO 960W 24V 40A	1	1469520000

Note

The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

Process

Energy

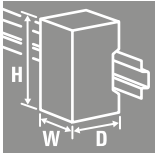
Transportation

Device Manufacturers

PROeco

PRO ECO 72W 12V 6A

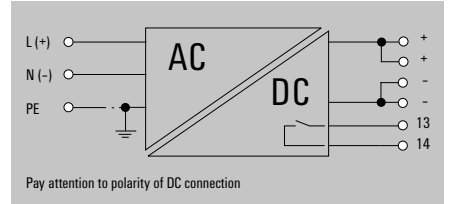
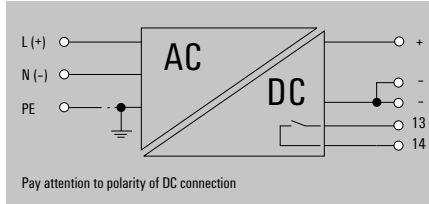
PRO ECO 120W 12V 10A



Similar to illustration



Similar to illustration



Technical data

Input	
Rated input voltage	100 ... 240 V AC
AC input voltage range	85 ... 264 V AC (Derating @ 100 V AC)
AC frequency range	47 ... 63 Hz
DC input voltage range	80 ... 370 DC (Derating @ 120 V DC)
AC current consumption	0.58 A @ 230 V AC / 1.14 A @ 110 V AC
DC current consumption	0.23 A @ 370 V DC / 0.74 A @ 120 V DC
Input fuse (internal) / inrush current	Yes / max. 40 A
Recommended back-up fuse	2 A / DI, Safety fuse 6 A, Char. B, Circuit breaker 3 ... 4 A, Char. C, Circuit breaker

Output	
Rated output voltage	12 V DC ± 2 %
Output voltage	10 ... 16 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 12 V DC, I _N
Rated output current @ U _{rated}	6 A up to 55 °C
Continuous output current @ 12 V DC	6 A @ 55 °C, 4.5 A @ 70 °C
Capacitive load	Unlimited
Protection against reverse voltages from the load	17...20 V DC
Protection against internal surge voltage	20 V DC

Signalling	
DC OK	LED Green (U _{output} > 10.8 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _N)
Error	LED Red (Overload, Overtemperature, Short-circuits, U _{output} < 10.2 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / N.O. Contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 10.8 V DC / < 10.2 V DC

General data	
Efficiency	typ. 85 %
Power loss @ idling / nominal load	4 W / 15 W @ 230 V AC
Earth discharge current	< 1.0 mA
Power factor (approx.)	> 0.4 @ 230 V AC / > 0.45 @ 115 V AC
Mains buffering @ I _{rated}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 5
Height x width x depth / weight	125 / 34 / 100 mm / 0.5 kg

Approvals	
Approvals	CE, TUV (IEC 60950-1), cULus, RCM, EAC

Connection data	
Conductor connection system	Screw connection
Number of terminals	3 für L/N/PE
Wire cross-section, rigid min/max	0.5/6 mm ²
Wire cross-section, flexible min/max	0.5/2.5 mm ²
Wire cross-section, AWG/kcmil	26/12 min/max
Min./max. tightening torque range	0.5/0.6 Nm
Stripping length	6 mm

Note	

Ordering data

Type	Qty.	Order No.
PRO ECO 72W 12V 6A	1	1469570000

Note
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

100 ... 240 V AC
85 ... 264 V AC (Derating @ 100 V AC)
47 ... 63 Hz
80 ... 370 DC (Derating @ 120 V DC)
0.58 A @ 230 V AC / 1.14 A @ 110 V AC
0.23 A @ 370 V DC / 0.74 A @ 120 V DC
Yes / max. 40 A
2 A / DI, Safety fuse
6 A, Char. B, Circuit breaker
3 ... 4 A, Char. C, Circuit breaker

12 V DC ± 2 %
10 ... 16 V DC (adjustable via potentiometer on front)
< 100 ms / < 50 mVSS @ 12 V DC, I _N
6 A up to 55 °C
6 A @ 55 °C, 4.5 A @ 70 °C
Unlimited
17...20 V DC
20 V DC

LED Green (U _{output} > 10.8 V DC)
LED Yellow (I _{output} > 90 % I _N)
LED Red (Overload, Overtemperature, Short-circuits, U _{output} < 10.2 V DC)
Yes / N.O. Contact / max. 30 V AC/DC 1 A
Output voltage > 10.8 V DC / < 10.2 V DC

typ. 85 %
4 W / 15 W @ 230 V AC
< 1.0 mA
> 0.4 @ 230 V AC / > 0.45 @ 115 V AC
> 100 ms @ 230 V AC / > 20 ms @ 115 V AC
yes, max. 5
125 / 34 / 100 mm / 0.5 kg

Input	Output
Screw connection	Screw connection
3 für L/N/PE	5 (13,14,+, -)
0.5/6	0.5/6
0.5/2.5	0.5/2.5
26/12	26/12
0.5/0.6	0.5/0.6
6	6

Type	Qty.	Order No.
PRO ECO 72W 12V 6A	1	1469570000

100 ... 240 V AC
85 ... 264 V AC (Derating @ 100 V AC)
47 ... 63 Hz
80 ... 370 DC (Derating @ 120 V DC)
1.25 A @ 230 V AC / 2.25 A @ 110 V AC
0.4 A @ 370 V DC / 1.15 A @ 120 V DC
Yes / max. 40 A
4 A / DI, Safety fuse
6 A, Char. B, Circuit breaker
3 ... 5 A, Char. C, Circuit breaker

12 V DC ± 2 %
10 ... 16 V DC (adjustable via potentiometer on front)
< 100 ms / < 50 mVSS @ 12 V DC, I _N
10 A up to 55 °C
10 A @ 55 °C, 7.5 A @ 70 °C
Unlimited
17...20 V DC
20 V DC

LED Green (U _{output} > 10.8 V DC)
LED Yellow (I _{output} > 90 % I _N)
LED Red (Overload, Overtemperature, Short-circuits, U _{output} < 10.2 V DC)
Yes / N.O. Contact / max. 30 V AC/DC 1 A
Output voltage > 10.8 V DC / < 10.2 V DC

typ. 87 %
4 W / 20 W @ 230 V AC
< 1.0 mA
> 0.45 @ 230 V AC / > 0.54 @ 115 V AC
> 80 ms @ 230 V AC / > 20 ms @ 115 V AC
yes, max. 5
125 / 40 / 100 mm / 0.6 kg

Input	Output
Screw connection	Screw connection
3 für L/N/PE	6 (13,14,+, -)
0.5/6	0.5/6
0.5/2.5	0.5/2.5
26/12	26/12
0.5/0.6	0.5/0.6
6	6

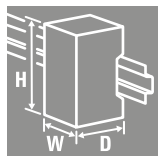
Type	Qty.	Order No.
PRO ECO 120W 12V 10A	1	1469580000

Note
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

PROeco

PRO ECO 240W 48V 5A

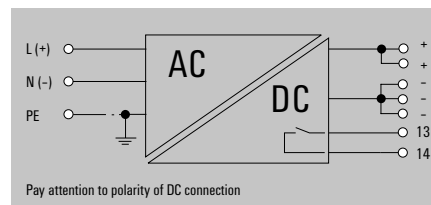
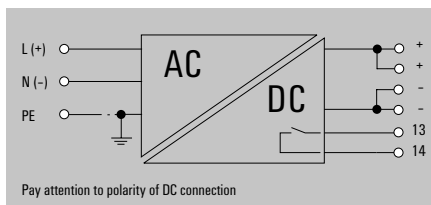
PRO ECO 480W 48V 10A



Similar to illustration



Similar to illustration



Technical data

Input	
Rated input voltage	
AC input voltage range	
AC frequency range	
DC input voltage range	
AC current consumption	
DC current consumption	
Input fuse (internal) / inrush current	
Recommended back-up fuse	

100 ... 240 V AC
85 ... 264 V AC (Derating @ 100 V AC)
47 ... 63 Hz
80 ... 370 DC (Derating @ 80V DC)
1.22 A @ 230 V AC / 2.46 A @ 110 V AC
1.16 A @ 370 V DC / 2.4 A @ 120 DC
Yes / max. 10 A
4 A / DI, Safety fuse
10 A, Char. B, Circuit breaker
3 ... 4 A, Char. C, Circuit breaker

100 ... 240 V AC
85 ... 264 V AC (Derating @ 100 V AC)
47 ... 63 Hz
80 ... 370 DC (Derating @ 120 V DC)
2.4 A @ 230 V AC / 5.2 A @ 110 V AC
1.55 A @ 370 V DC / 4.65 A @ 120 V DC
Yes / max. 3 A
6 A / DI, Safety fuse
16 A, Char. B, Circuit breaker
6 ... 8 A, Char. C, Circuit breaker

Output	
Rated output voltage	
Output voltage	
Ramp-up time / residual ripple, switching peaks	
Rated output current @ U _{rated}	
Continuous output current @ 48 V DC	
Capacitive load	
Protection against reverse voltages from the load	
Protection against internal surge voltage	

48 V DC ± 1 %
42 ... 56 V DC (adjustable via potentiometer on front)
< 100 ms / < 100 mVSS @ 48 V DC, I _h
5 A up to 50 °C
5 A @ 55°C, 3.75 A @ 70 °C
Unlimited
55 ... 60 V DC
60 V DC

48 V DC ± 1 %
42 ... 56 V DC (adjustable via potentiometer on front)
< 100 ms / < 100 mVSS @ 48V DC, I _h
10 A up to 50 °C
10 A @ 55 °C, 7.5 A @ 70 °C
Unlimited
55 ... 60V DC
60 V DC

Signalling	
DC OK	
Alarm	
Error	
Voltage monitoring / no-voltage contact / contact load	
On/Off relay	

LED Green (U _{output} > 43.2 V DC)
LED Yellow (I _{output} > 90 % I _h)
LED Red (Overload, Overtemperature, Short-circuits, U _{output} < 40.8 V DC)
Yes / N.O. Contact / max. 30 V AC/DC 1 A
Output voltage > 43.2 V DC / < 40.8 V DC

LED Green (U _{output} > 43.2V DC)
LED Yellow (I _{output} > 90 % I _h)
LED Red (Overload, Overtemperature, Short-circuits, U _{output} < 40.8 V DC)
Yes / N.O. Contact / max. 30 V AC/DC 1 A
Output voltage > 43.2V DC / < 40.8 V DC

General data	
Efficiency	
Power loss @ idling / nominal load	
Earth discharge current	
Power factor (approx.)	
Mains buffering @ I _{rated}	
Parallel connection option	
Height x width x depth / weight	

typ. 92%
3 W / 23 W @ 230 V AC
< 1.0mA
> 0.93@ 230 V AC / > 0.99 @ 115 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
ja, max. 5
125 / 60 / 100 mm / 1 kg

typ. 93%
5 W / 50 W @ 230 V AC
< 1.5 mA
> 0.97 @ 230 V AC / > 0.99 @ 115 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
ja, max. 3
125 / 100 / 120 mm / 1.6 kg

Approvals	
Approvals	

CE, TUV (IEC 60950-1), cULus, RCM, EAC
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CE, TUV (IEC 60950-1), cULus, RCM, EAC
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Connection data	
Conductor connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil	min/max
Min./max. tightening torque range	Nm
Stripping length	mm

Input	Output
Screw connection	Screw connection
3 für L/N/PE	6 (13,14,+,+,-,-)
0.5/6	0.5/6
0.5/2.5	0.5/2.5
26/12	26/12
0.5/0.6	0.5/0.6
6	6

Input	Output
Screw connection	Screw connection
3 für L/N/PE	7 (13,14,+,+,-,-,-)
0.5/6	0.18/6
0.5/2.5	0.22/4
26/12	26/10
0.5/0.6	0.5/0.6
6	7

Note	

Ordering data

Note	

Type	Qty.	Order No.
PRO ECO 240W 48V 5A	1	1469590000
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.		

Type	Qty.	Order No.
PRO ECO 480W 48V 10A	1	1469610000
The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.		



PROeco

PRO ECO3 120W 24V 5A

PRO ECO3 240W 24V 10A

Technical data

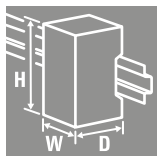
Machinery

Process

Energy

Transportation

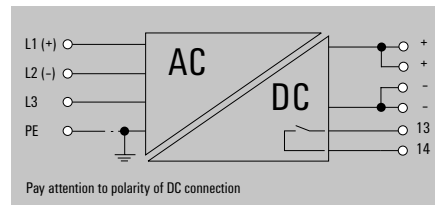
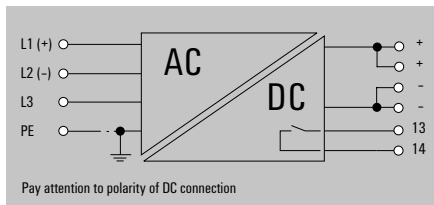
Device Manufacturers



Similar to illustration



Similar to illustration



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (Wide-range input)
AC input voltage range	3 x 340...3 x 575 V AC / 2 x 360...2 x 575 V AC
AC frequency range	47...63 Hz
DC input voltage range	450...800 V DC (max. 500 V DC in accordance with UL508)
AC current consumption	0.3 A @ 3 x 500 V AC / 0.4 A @ 3 x 400 V AC
DC current consumption	0.2 A @ 800 V DC / 0.4 A @ 450 V DC
Input fuse (internal) / inrush current	Yes / max. 40 A
Recommended back-up fuse	2 A / DI, Safety fuse 2...3 A, Char. C, Circuit breaker

Rated input voltage	3 x 400...3 x 500 V AC (Wide-range input)
AC input voltage range	3 x 340...3 x 575 V AC / 2 x 360...2 x 575 V AC
AC frequency range	47...63 Hz
DC input voltage range	450...800 V DC (max. 500 V DC in accordance with UL508)
AC current consumption	0.3 A @ 3 x 500 V AC / 0.4 A @ 3 x 400 V AC
DC current consumption	0.2 A @ 800 V DC / 0.4 A @ 450 V DC
Input fuse (internal) / inrush current	Yes / max. 40 A
Recommended back-up fuse	2 A / DI, Safety fuse 2...3 A, Char. C, Circuit breaker

Rated input voltage	3 x 400...3 x 500 V AC (Wide-range input)
AC input voltage range	3 x 340...3 x 575 V AC / 2 x 360...2 x 575 V AC
AC frequency range	47...63 Hz
DC input voltage range	450...800 V DC (max. 500 V DC in accordance with UL508)
AC current consumption	0.6 A @ 3 x 500 V AC / 0.8 A @ 3 x 400 V AC
DC current consumption	0.4 A @ 800 V DC / 0.7 A @ 450 V DC
Input fuse (internal) / inrush current	Yes / max. 50 A
Recommended back-up fuse	2 A / DI, Safety fuse 2...3 A, Char. C, Circuit breaker

Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	5 A up to 55 °C
Continuous output current @ 24 V DC	5 A @ 55 °C, 3.75 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC

Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	5 A up to 55 °C
Continuous output current @ 24 V DC	5 A @ 55 °C, 3.75 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC

Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	10 A up to 55 °C
Continuous output current @ 24 V DC	10 A @ 55 °C, 7.5 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC

Signalling	
DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC

DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC

DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC

General data	
Efficiency	87 % @ 3 x 500 V AC / 88 % @ 3 x 400 V AC
Power loss @ idling / nominal load	6 W / 13 W
Earth discharge current	< 1 mA
Power factor (approx.)	> 0.4 @ 3 x 500 V AC / > 0.45 @ 3 x 400 V AC
Mains buffering @ I _{rated}	> 40 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
Parallel connection option	yes, max. 5
Height x width x depth / weight	125 / 40 / 100 mm / 0.6 kg

Efficiency	87 % @ 3 x 500 V AC / 88 % @ 3 x 400 V AC
Power loss @ idling / nominal load	6 W / 13 W
Earth discharge current	< 1 mA
Power factor (approx.)	> 0.4 @ 3 x 500 V AC / > 0.45 @ 3 x 400 V AC
Mains buffering @ I _{rated}	> 40 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
Parallel connection option	yes, max. 5
Height x width x depth / weight	125 / 40 / 100 mm / 0.6 kg

Efficiency	88 % @ 3 x 500 V AC / 89 % @ 3 x 400 V AC
Power loss @ idling / nominal load	8 W / 26 W
Earth discharge current	< 0.5 mA
Power factor (approx.)	> 0.45 @ 3 x 500 V AC / > 0.5 @ 3 x 400 V AC
Mains buffering @ I _{rated}	> 40 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
Parallel connection option	yes, max. 5
Height x width x depth / weight	125 / 60 / 100 mm / 1 kg

Approvals	
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC

Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC
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Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC
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Connection data	
Conductor connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.18/6 mm ²
Wire cross-section, flexible min/max	0.5/2.5 mm ²
Wire cross-section, AWG/kcmil	26/10 min/max
Min./max. tightening torque range	0.5/0.6 Nm
Stripping length	8 mm

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	6 (13, 14, +, -, -)
0.18/6	0.5/6
0.5/2.5	0.5/2.5
26/10	26/12
0.5/0.6	0.5/0.6
8	6

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	6 (13, 14, +, -, -)
0.18/6	0.5/6
0.5/2.5	0.5/2.5
26/10	26/12
0.5/0.6	0.5/0.6
7	6

Note	

Note	

Note	

Ordering data

Type	Qty.	Order No.
PRO ECO3 120W 24V 5A	1	1469530000

Type	Qty.	Order No.
PRO ECO3 120W 24V 5A	1	1469530000

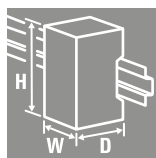
Type	Qty.	Order No.
PRO ECO3 240W 24V 10A	1	1469540000

The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

The internal varistor found in a switch-mode power unit does not replace the necessary surge protection in a system.

Note	

PROeco



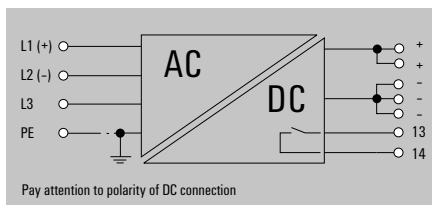
Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (Wide-range input)
AC input voltage range	3 x 340...3 x 575 V AC / 2 x 360...2 x 575 V AC
AC frequency range	47...63 Hz
DC input voltage range	450...800 V DC (max. 500 V DC in accordance with UL508)
AC current consumption	1.2 A @ 3 x 500 V AC / 1.5 A @ 3 x 400 V AC
DC current consumption	0.7 A @ 800 V DC / 1.2 A @ 450 V DC
Input fuse (internal) / inrush current	Yes / max. 50 A
Recommended back-up fuse	4 A / DI, Safety fuse 3...5 A, Char. C, Circuit breaker
Output	
Rated output voltage	24 V DC ± 1 %
Output voltage	22...28 V DC (adjustable via potentiometer on front)
Ramp-up time / residual ripple, switching peaks	< 100 ms / < 50 mVSS @ 24 V DC, I _h
Rated output current @ U _{rated}	20 A up to 55 °C
Continuous output current @ 24 V DC	20 A @ 55 °C, 15 A @ 70 °C
Capacitive load	Unrestricted
Protection against reverse voltages from the load	30...35 V DC
Protection against internal surge voltage	35 V DC
Signalling	
DC OK	LED Green (U _{output} > 21.6 V DC)
Alarm	LED Yellow (I _{output} > 90 % I _h)
Error	LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Voltage monitoring / no-voltage contact / contact load	Yes / NO contact / max. 30 V AC/DC 1 A
On/Off relay	Output voltage > 21.6 V DC / < 20.4 V DC
General data	
Efficiency	89 % @ 3 x 500 V AC / 90 % @ 3 x 400 V AC
Power loss @ idling / nominal load	8 W / 48 W
Earth discharge current	< 0.5 mA
Power factor (approx.)	> 0.41 @ 3 x 500 V AC / > 0.43 @ 3 x 400 V AC
Mains buffering @ I _{rated}	> 30 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
Parallel connection option	yes, max. 3
Height x width x depth / weight	125 / 100 / 120 mm / 1.3 kg
Approvals	
Approvals	CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC
Connection data	
Conductor connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.18/6 mm ²
Wire cross-section, flexible min/max	0.5/2.5 mm ²
Wire cross-section, AWG/kcmil	26/10 min/max
Min./max. tightening torque range	0.5/0.6 Nm
Stripping length	7 mm
Note	
Ordering data	
Note	

PRO ECO3 480W 24V 20A



Similar to illustration

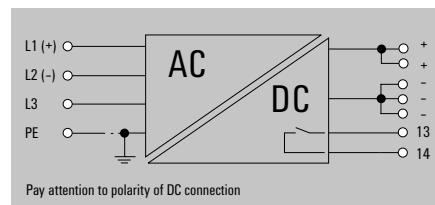


Input	
3 x 400...3 x 500 V AC (Wide-range input)	
3 x 340...3 x 575 V AC / 2 x 360...2 x 575 V AC	
47...63 Hz	
450...800 V DC (max. 500 V DC in accordance with UL508)	
1.2 A @ 3 x 500 V AC / 1.5 A @ 3 x 400 V AC	
0.7 A @ 800 V DC / 1.2 A @ 450 V DC	
Yes / max. 50 A	
4 A / DI, Safety fuse 3...5 A, Char. C, Circuit breaker	
Output	
24 V DC ± 1 %	
22...28 V DC (adjustable via potentiometer on front)	
< 100 ms / < 50 mVSS @ 24 V DC, I _h	
20 A up to 55 °C	
20 A @ 55 °C, 15 A @ 70 °C	
Unrestricted	
30...35 V DC	
35 V DC	
Signalling	
LED Green (U _{output} > 21.6 V DC)	
LED Yellow (I _{output} > 90 % I _h)	
LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)	
Yes / NO contact / max. 30 V AC/DC 1 A	
Output voltage > 21.6 V DC / < 20.4 V DC	
General data	
89 % @ 3 x 500 V AC / 90 % @ 3 x 400 V AC	
8 W / 48 W	
< 0.5 mA	
> 0.41 @ 3 x 500 V AC / > 0.43 @ 3 x 400 V AC	
> 30 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC	
yes, max. 3	
125 / 100 / 120 mm / 1.3 kg	
Approvals	
CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC	
Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	7 (13,14,+,+,-,-)
0.18/6	0.18/6
0.5/2.5	0.5/2.5
26/10	26/10
0.5/0.6	0.5/0.6
7	7

PRO ECO3 960W 24V 40A



Similar to illustration



Input	
3 x 400...3 x 500 V AC (Wide-range input)	
3 x 340...3 x 575 V AC / 2 x 360...2 x 575 V AC	
47...63 Hz	
450...800 V DC (max. 500 V DC in accordance with UL508)	
2.15 A @ 3 x 500 V AC / 2.68 A @ 3 x 400 V AC	
1.37 A @ 800 V DC / 2.37 A @ 450 V DC	
Yes / max. 40 A	
6 A / DI, Safety fuse 10 A, Char. B, Circuit breaker 6...8 A, Char. C, Circuit breaker	
Output	
24 V DC ± 1 %	
22...28 V DC (adjustable via potentiometer on front)	
< 100 ms / < 50 mVSS @ 24 V DC, I _h	
40 A up to 50 °C	
40 A @ 50 °C, 24 A @ 70 °C	
Unrestricted	
30...35 V DC	
35 V DC	
Signalling	
LED Green (U _{output} > 21.6 V DC)	
LED Yellow (I _{output} > 90 % I _h)	
LED Red (Overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)	
Yes / NO contact / max. 30 V AC/DC 1 A	
Output voltage > 21.6 V DC / < 20.4 V DC	
General data	
90 % @ 3 x 500 V AC / 91 % @ 3 x 400 V AC	
5 W / 95 W	
< 1 mA	
> 0.56 @ 3 x 500 V AC / > 0.56 @ 3 x 400 V AC	
> 25 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC	
yes, max. 3	
125 / 160 / 120 mm / 2.5 kg	
Approvals	
CE, TÜV (EN/IEC 60950-1), cULus, RCM, EAC	
Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	7 (13,14,+,+,-,-)
0.18/6	0.5/16
0.5/2.5	2.5/10
26/10	22/8
0.5/0.6	1.2/1.5
7	12

connectPower PROeco diode module

CP DM 10

CP DM 20

Technical data

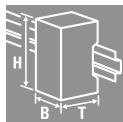
Machinery

Process

Energy

Transportation

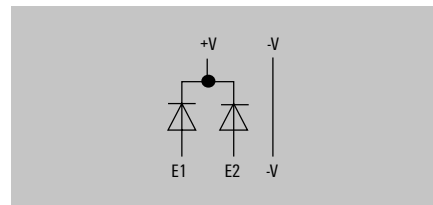
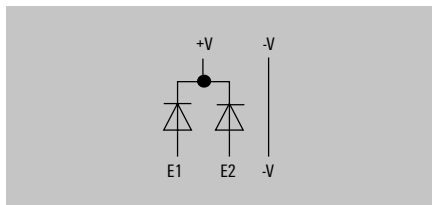
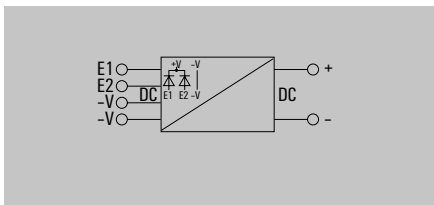
Device Manufacturers



Similar to illustration



Similar to illustration



Technical data

Input	
Input voltage	
Input current	
Output	
Output voltage	
Output current	
General data	
Ambient temperature (operational)	
Storage temperature	
Degree of efficiency at max. load	
Mounting position, installation notice	
Installation advice	
Weight	
Approvals	

Input voltage	40 V DC max.
Input current	2 x 0...10 A max.
Output	
Output voltage	$U_n - 0.5$ V typ
Output current	0...20 A max. or 10 A max. for redundancy operation
General data	
Ambient temperature (operational)	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	95.5%
Mounting position, installation notice	horizontally, on terminal rail TS 35
Installation advice	Clearance: side ≥ 2 cm; above/below ≥ 10 cm
Weight	0.4 kg
Approvals	CE; cULus; cURus, EAC

Input voltage	40 V DC max.
Input current	2 x 0...20 A max.
Output	
Output voltage	$U_n - 0.5$ V typ
Output current	0...40 A max. or 20 A max. for redundancy operation
General data	
Ambient temperature (operational)	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	97.5%
Mounting position, installation notice	horizontally, on terminal rail TS 35
Installation advice	Clearance: side ≥ 2 cm; above/below ≥ 10 cm
Weight	0.4 kg
Approvals	CE; cULus; cURus, EAC

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Height x width x depth	mm
Note	

Input	Output
4 / 0.13 / 6	4 / 0.13 / 6
110 / 55.5 / 125	110 / 55.5 / 125

Input	Output
4 / 0.13 / 6	10 / 0.32 / 16
110 / 55.5 / 125	110 / 55.5 / 125

Ordering data

Screw connection

Type	Qty.	Order No.
CP DM 10	1	8710620000

Type	Qty.	Order No.
CP DM 20	1	8768650000

Note

Note

Note

Accessories

Note

Note

Note

Small metal foot



Type	Order No.
MTA 30 MF	1251320000

Large metal foot



Type	Order No.
MTA 45 MF	1251310000

Small plastic foot



Type	Order No.
MTA 30 BK	1168970000

Large plastic foot



Type	Order No.
MTA 45 BK	1962250000

Small wall mounting



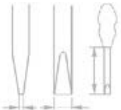
Type	Order No.
CP A WALLADAPTER 30 MM	1461870000

Large wall mounting



Type	Order No.
CP A WALLADAPTER 45 MM	1461850000

Small screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIK PH1		1.00			80	9008570000
SDIS 0.5X3.0X100	B		0.5	3	100	9008380000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

End bracket

For DIN rail TS 35



Polyamide with fibre glass, screwable	Colour	Torque	Qty.	Order No.
WEW 35/1 SW	black	1.2 Nm	50	1162600000

Technical data

Machinery

Process

Energy

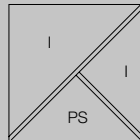
Transportation

Device Manufacturers

Current supply isolator

- Converts analogue signals from Ex zone 0 into analogue output signals for safe zones.
- Active and passive current inputs/outputs
- HART® - transparent
- PC configuration with FDT/DTM software, download link at www.weidmueller.com
- Relay output for failure alarm
- 2-channel module, can also be used as a signal splitter

ACT20X-HAI-SA0-S / 2HAI-2SA0-S



Technical data

Input	
Input current	4...20 mA
Sensor supply	≤ 28 V DC
Residual ripple (current loop)	< 7.5 mV _{eff}
Output analogue	
Output current	3.5 - 23 mA
Output signal limit	< 28 mA
load impedance current	≤ 600 Ω
2-wire supply	≤ 26 V DC
Accuracy	< 0.1% span
Temperature coefficient	< 0.01% of span/°C (TU)
Step response time	≤ 5 ms
Cut-off frequency (-3 dB)	0.5...2.5 kHz @ 3.5...23 mA bi-directional HART® signal
Alarm output	
Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)
General data	
Supply voltage	19.2 - 31.2 V DC
Power consumption	≤ 3 W (2 channels)
Ambient temperature / Storage temperature	-20 °C...+60 °C / -20 °C...+85 °C
Approvals	
Approvals	cULus; DEKRAATEX; DETNORVER; FMEX; GOSTEX; GOSTME25; IECExDEK
Insulation coordination	
Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V
EMC standards	DIN EN 61326
Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	
Screw connection	
	2.5 / 0.5 / 2.5
	113.6 / 22.5 /

Ordering data

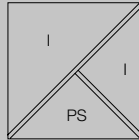
Type	Qty.	Order No.
1-channel version		
ACT20X-HAI-SA0-S	1 ST	8965430000
2-channel version		
ACT20X-2HAI-2SA0-S	1 ST	8965440000

CBX200 USB configuration adapter - 8978580000

Current output isolator

- For controlling field devices located in explosion risk zones
- HART® Transparent
- Relay output for error alarm
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- 1 or 2 channels in one module

ACT20X-SAI-HA0-S / 2SAI-2HA0-S



Technical data

Input	
Input current	4...20mA
Voltage drop	< 2 V
Output analogue	
Output current	4...20 mA (max. 23 mA)
Output signal limit	< 28 mA
load impedance current	≤ 600 Ω
2-wire supply	> 14.5 V @ 20 mA
Residual ripple (current loop)	< 7.5 mV _{eff}
Accuracy	< 0.1% span
Temperature coefficient	< 0.01% of span/°C (TU)
Step response time	≤ 5 ms
Cut-off frequency (-3 dB)	0.5...2.5 kHz @ 3.5...23 mA bi-directional HART® signal
Alarm output	
Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)
General data	
Supply voltage	19.2 - 31.2 V DC
Power consumption	≤ 3 W (2 channels)
Ambient temperature / Storage temperature	-20 °C...+60 °C / -20 °C...+85 °C
Approvals	
Approvals	cULus; DEKRAATEX; DETNORVER; FMEX; GOSTEX; GOSTME25; IECExDEK
Insulation coordination	
Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V
EMC standards	DIN EN 61326

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

Screw connection	
2.5 / 0.5 / 2.5	
113.6 / 22.5 /	

Ordering data

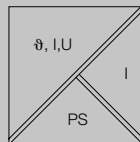
Type	Qty.	Order No.
1-channel version		
ACT20X-SAI-HA0-S	1 ST	8965450000
2-channel version		
ACT20X-2SAI-2HA0-S	1 ST	8965460000

CBX200 USB configuration adapter - 8978580000

Temperature transducer

- Converts intrinsically safe RTD, thermocouple and mA signals into analogue signals for safe zones.
- PC configuration with FDT/DTM software, download link at www.weidmuller.com
- Relay output for failure alarm
- 1 or 2 channels in one module
- 2-channel module, can also be used as a signal splitter

ACT20X-HTI-2SA0-S / 2HTI-2SA0-S



Usable as:

- Safety barrier (insulator)
- Signal conversion
- 2-wire measuring transducer
- Amplifier, repeater

Technical data

Input	
Type	RTD, TC, DC (mA)
Sensor supply	Configurable
Temperature input range	≤ 50 Ω
Line resistance in measuring circuit	0...20 mA, 4...20mA
Input current	20 Ω + PTC 50 Ω
Input resistance, current	
Output	
Output current	0(4)...20 mA / 20...4 mA (configurable)
Output signal limit	3.8...20.5 mA / 0...20.5 mA (dependent on range)
load impedance current	≤ 600 Ω
Influence of load resistance	≤ 0.01% of span / 100 Ω
Current loop output	
Output current (current loop)	4...20 mA
Load resistance	(U _g - 3.5) / 0.023 A
Influence of load resistance	≤ 0.01% of span / 100 Ω
2-wire supply	3.5...26 V DC
Alarm output	
Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)
General data	
Supply voltage	19.2 - 31.2 V DC
Power consumption	≤ 3 W (2 channels)
Tightening torque, min. / Tightening torque, max.	0.4 Nm / 0.6 Nm
Ambient temperature / Storage temperature	-20 °C...+60 °C / -20 °C...+85 °C
Approvals	
Approvals	cULus; DETNORVER; FMEX; GOSTEX; GOSTME25; IECEXKEM; KEMAATEX
Insulation coordination	
Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V
EMC standards	DIN EN 61326
Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Screw connection	
2.5 / 0.5 / 2.5	
119.2 / 22.5 /	

Type	Temperature-range	Accuracy
Metal PTC		
Pt100	-200...850 °C	± (0.15 + 0.02 x T) Class A ± (0.30 °C + 0.005 x T) Class B
Pt500	-200...850 °C	
Pt1000	-200...850 °C	
Ni50		
Ni100	-60...0 °C	± (0.4 + 0.007 x T)
Ni120	0...180 °C	± (0.4 + 0.028 x T)
Ni1000		
TC-Type according to IEC60584-1		
B	50...250 °C	± 25 K
	250...500 °C	± 10 K
	500...1820 °C	± 6 K
E	-200...-150 °C	± 4 K
	-150...1000 °C	± 3 K
J	-200...-150 °C	± 4 K
	-150...1200 °C	± 3 K
K	-200...-150 °C	± 5 K
	-150...1200 °C	± 3 K
	1200...1372 °C	± 4 K
N	-200...-150 °C	± 6 K
	-150...1300 °C	± 3 K
R	-50...200 °C	± 10 K
	200...1780 °C	± 6 K
S	-50...200 °C	± 10 K
	200...1780 °C	± 6 K
T	-200...-150 °C	± 5 K
	-150...400 °C	± 3 K
according to DIN43710		
U	0...600 °C	± 3 °C
L	0...900 °C	± 3 °C

Ordering data

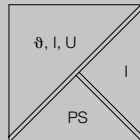
Type	Qty.	Order No.
1-channel version		
ACT20X-HTI-2SA0-S	1 ST	8965470000
2-channel version		
ACT20X-2HTI-2SA0-S	1 ST	8965480000

CBX200 USB configuration adapter - 8978580000

Universal measurement and signal isolator converter

- Universal isolator for intrinsically safe RTD signals, thermal sensor signals, resistor signals, potentiometer signals and DC signals (mA,V)
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- Digital relay output adjustable as threshold switch
- Relay output for error alarm

ACT20X-HUI-SA0-S



Usable as:

- Safety barrier (insulator)
- Signal conversion
- 2-wire measuring transducer
- Amplifier, repeater

Technical data

Input	
Type	RTD, TC, DC (mA, V)
Sensor supply	28...16.5 V DC/0...20 mA
Temperature input range	Configurable
Line resistance in measuring circuit	≤ 50 Ω
Input current	0...20 mA, 4...20mA
Input voltage	0...12 V DC, configurable: 0.1 / 0.2...1 / 0.5 / 0...10 and 2...10 V DC
Potentiometer	10 Ω...10 kΩ
Input resistance, voltage/current	> 10 MΩ / 20 Ω + PTC 50 Ω
Output analogue	
Output current	0...23 mA, configurable: 0...20 / 4...20 / 20...0 / 20...4 mA
Output signal limit	3.8...20.5 mA / 0...20.5 mA (dependent on range)
load impedance current	≤ 600 Ω
Influence of load resistance	≤ 0.01% of span / 100 Ω
Current loop output	
Output current (current loop)	4...20 mA
Load resistance	≤ (Vs - 10) / 20 mA (current loop)
Influence of load resistance	≤ 0.01% of span / 100 Ω
2-wire supply	≤ 26 V DC
Output digital	
Type	Relay, 1 NO / NC contact
Function	Configurable switching thresholds, Sensor error, Window function
Nominal switching voltage	≤ 250 V AC / 30 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 2 A AC/DC (safe area, Zone 2 area)
Alarm output	
Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
General data	
Supply voltage	19.2 - 31.2 V DC
Power consumption	≤ 3.5 W
Tightening torque, min. / Tightening torque, max.	0.4 Nm / 0.6 Nm
Ambient temperature / Storage temperature	-20 °C...+60 °C / -20 °C...+85 °C
Approvals	
Approvals	cULus; DETNORVER; FMEX; GOSTEX; GOSTME25; IECEXKEM; KEMAATEX
Insulation coordination	
Insulation voltage / Rated voltage	2.6 kV (input / output) / 300 V
EMC standards	DIN EN 61326
Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Type	Temperature-range	Accuracy
Metal PTC		
Pt100	-200...850 °C	± (0.15 + 0.02 x T) Class A ± (0.30 °C + 0.005 x T) Class B
Pt500	-200...850 °C	
Pt1000	-200...850 °C	
Ni50		
Ni100	-60...0 °C	± (0.4 + 0.007 x T) ± (0.4 + 0.028 x T)
Ni120	0...180 °C	
Ni1000		
TC-Type according to IEC60584-1		
B	50...250 °C	± 25 K
	250...500 °C	± 10 K
	500...1820 °C	± 6 K
E	-200...-150 °C	± 4 K
	-150...-1000 °C	± 3 K
J	-200...-150 °C	± 4 K
	-150...-1200 °C	± 3 K
K	-200...-150 °C	± 5 K
	-150...-1200 °C	± 3 K
	1200...1372 °C	± 4 K
	-200...-150 °C	± 6 K
R	-150...1300 °C	± 3 K
	-50...200 °C	± 10 K
S	200...1780 °C	± 6 K
	-50...200 °C	± 10 K
T	200...1780 °C	± 6 K
	-200...-150 °C	± 5 K
	-150...400 °C	± 3 K
according to DIN43710		
U	0...600 °C	± 3 °C
L	0...900 °C	± 3 °C

Type	Qty.	Order No.
1-channel version		
ACT20X-HUI-SA0-S	1 ST	8965490000

Ordering data

Type	Qty.	Order No.
1-channel version		
ACT20X-HUI-SA0-S	1 ST	8965490000

CBX200 USB configuration adapter - 8978580000

Technical data

Machinery

Process

Energy

Transportation

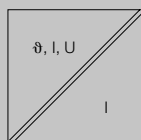
Device Manufacturers

Universal measurement and signal isolator-converter

Output-loop powered

- Universal isolator for intrinsically safe RTD signals, thermal sensor signals, resistor signals, potentiometer signals and DC signals (mA,V)
- Supply via output loop
- 12.5 mm thin housing
- PC configuration with FDT/DTM software, download at www.weidmueller.com

ACT20X-HUI-SA0-LP-S



Technical data

Input	
Type	RTD, TC, DC (mA, V), 2- 3 wire resistor
Temperature input range	Configurable
Input current	± 25 mA
Input voltage	± 28 V DC
Potentiometer	10 Ω...10 kΩ
Input resistance, voltage/current	> 10 MΩ @ 600 mV, 2 MΩ @ 28 V / 70 Ω
Output analogue	
Output current	4...20 mA (max. 23 mA)
load impedance current	≤ 700 Ω
Residual ripple (current loop)	≤ 10 mV _{ss}
Accuracy	< 0.1 % of end value
Temperature coefficient	Max. 200 ppm/K of output range
Step response time	< 400 ms (10...90 %)
Cut-off frequency (-3 dB)	100 Hz
General data	
Supply voltage	11...28 V DC (loop powered)
Tightening torque, min. / Tightening torque, max.	0.4 Nm / 0.6 Nm
Ambient temperature / Storage temperature	0 °C...+60 °C / -20 °C...+70 °C
Approvals	
Approvals	cULus; GOSTEX
Insulation coordination	
Insulation voltage / Rated voltage	4 kV (input / output) / 300 V _{eff}
Rated voltage	300 V _{eff}
EMC standards	DIN EN 61326

Inputs						
Type	Thermocouples (TC), RTD, mA, Volt, mV, resistor, potentiometer					
Type	Standard	Lower limit	Upper limit	Min. area		
B	IEC584	100 °C	1820 °C	400 °C		
E		-270 °C	1000 °C			
J		-270 °C	1200 °C	80 °C		
K		-270 °C	1372 °C			
L	DIN43710	-100 °C	900 °C			
N	IEC584	-180 °C	1300 °C	100 °C		
R, S		-50 °C	1768 °C	300 °C		
T		-270 °C	400 °C	80 °C		
U		DIN43710	-200 °C	600 °C	100 °C	
User-defined Input	Up to 101 values					
Error detection	Upper error signalling value: 23 mA, Lower error signalling value: 3,5 mA					
mA	±25 mA @ 70 Ω		4 mA			
Volt	±28 V @ 2 MΩ		2,0 V			
	±12 V @ 2 MΩ		1,0 V			
mV	±600 mV @ >10 MΩ		50 mV			
	±150 mV @ >10 MΩ		15 mV			
2-, 3-, 4-wire RTD		Type	Standard	Lower limit	Upper limit	Min. area
Pt100, Pt200, Pt1000, Ni120, Cu10	DIN43710			-200 °C	850 °C	-20 °C
				-80 °C	320 °C	15 °C
				-100 °C	260 °C	100 °C
		User-defined Input	Up to 101 values			
Resistance	0 to 12 kΩ		500 Ω			
	0 to 15 kΩ		100 Ω			
	0 to 750 Ω		50 Ω			
Potentiometer	1.2 kΩ to 500 kΩ					

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Screw connection	
2.5 / 0.5 / 2.5	
119.2 / 12.5 /	

Ordering data

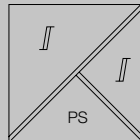
Type	Qty.	Order No.
1-channel version		
ACT20X-HUI-SA0-LP-S	1 ST	1318220000

CBX200 USB configuration adapter - 8978580000

NAMUR isolating switching amplifier

- Converts intrinsically safe digital signals (NAMUR / switching contact) from EX Zone 0 into digital output signals (relay output) for the safe zone
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- Relay output for error alarm, cable break, short-circuit
- 1 or 2 channels in one module

ACT20X-HDI-SDO-RNO-S / RNC-S ACT20X-2HDI-2SDO-RNO-S / RNC-S



Technical data

Input	
Sensor	NAMUR sensor, according to EN60947, switch with or without RS, RP
Sensor supply	8 V DC / 8 mA
Resistance	RP = 750 Ω / RS = 15kΩ
Input frequency	0...5 kHz
Pulse duration	> 0.1 ms
Input resistance	1 kΩ
Trigger level low / Trigger level high	< 1.2 mA / > 2.1 mA
Output signal in case of wire break	< 0.1 mA, > 6.5 mA (in case of wire break)
Output	
Type	Relay, 2 NC (voltage-free), Switching frequency 20 Hz
Rated switching voltage	≤ 250 V AC / 30 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 2 A AC/DC (safe area, Zone 2 area)
Power rating	≤ 500 VA / 60 W (safe area) ≤ 16 VA / 32 W (Zone 2)
Alarm output	
Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)
General data	
Supply voltage	19.2 - 31.2 V DC
NAMUR supply	8 V DC / 8 mA
Power consumption	≤ 3 W (2 channels)
Tightening torque, min. / Tightening torque, max.	0.4 Nm / 0.6 Nm
Ambient temperature / Storage temperature	-20 °C...+60 °C / -20 °C...+85 °C
Approvals	
Approvals	cULus; DETNORVER; FMEX; GOSTEX; GOSTME25; IECEXKEM; KEMAATEX
Insulation coordination	
Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V
EMC standards	DIN EN 61326
Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	
Screw connection	
	2.5 / 0.5 / 2.5
	119.2 / 22.5 /

Ordering data

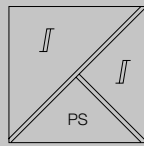
Type	Qty.	Order No.
1-channel version, NO		
ACT20X-HDI-SDO-RNO-S	1 ST	8965340000
1-channel version, NC		
ACT20X-HDI-SDO-RNC-S	1 ST	8965350000
2-channel version, NO		
ACT20X-2HDI-2SDO-RNO-S	1 ST	8965370000
2-channel version, NC		
ACT20X-2HDI-2SDO-RNC-S	1 ST	8965380000
CBX200 USB configuration adapter		8978580000



NAMUR isolating switching amplifier

- Converts intrinsically safe signals (NAMUR / switching contact) from EX Zone 0 into digital output signals (relay output) for the safe zone
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- Relay output for error alarm
- 1 or 2 channels in one module

ACT20X-HDI-SDO-S / 2HDI-2SDO-S



Technical data

Input	
Sensor	
Sensor supply	
Resistance	
Input frequency	
Pulse duration	
Input resistance	
Trigger level low / Trigger level high	
Output signal in case of wire break	
Output	
Type	
Switching frequency	
Pulse duration	
Rated switching voltage	
Power rating	
Voltage drop at max. load	
Alarm output	
Type	
Nominal switching voltage	
Continuous current	
Power rating	
General data	
Power consumption	
Supply voltage	
NAMUR supply	
Power consumption	
Tightening torque, min. / Tightening torque, max.	
Ambient temperature / Storage temperature	
Approvals	
Approvals	
Insulation coordination	
Insulation voltage	
Rated voltage	
EMC standards	
Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

NAMUR sensor, according to EN60947, switch with or without RS, RP	
8 V DC / 8 mA	
Parallel resistor 15kΩ, Series resistor 750Ω	
0...5 kHz	
> 0.1 ms	
1 kΩ	
< 1.2 mA / > 2.1 mA	
< 0.1 mA, > 6.5 mA (in case of wire break)	
Output	
NPN transistor output	
5 kHz	
> 0.1 ms	
≤ 30 V DC	
≤ 80 mA / ≤ 2.4 W	
< 2.5 V DC	
Alarm output	
Relay, 1 NC (voltage-free)	
≤ 125 V AC / 110 V DC (safe area)	
≤ 32 V AC / 32 V DC (Zone 2)	
≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)	
≤ 62.5 VA / 32 W (safe area)	
≤ 16 VA / 32 W (Zone 2)	
General data	
≤ 3 W (2 channels)	
19.2 - 31.2 V DC	
8 V DC / 8 mA	
≤ 3 W (2 channels)	
0.4 Nm / 0.6 Nm	
-20 °C...+60 °C / -20 °C...+85 °C	
Approvals	
cULus; DETNORVER; FMEX; GOSTEX; GOSTME25; IECEXKEM; KEMAATEX	
Insulation coordination	
2.6 kV (input / output)	
300 V	
DIN EN 61326	
Screw connection	
2.5 / 0.5 / 2.5	
119.2 / 22.5 /	

Ordering data

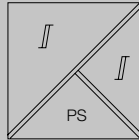
Type	Qty.	Order No.
1-channel version		
ACT20X-HDI-SDO-S	1 ST	8965360000
2-channel version		
ACT20X-2HDI-2SDO-S	1 ST	8965390000

CBX200 USB configuration adapter - 8978580000

Valve control module

- Valve control component for control of intrinsically safe valves, LEDs, acoustic alarms, etc.
- PC configuration with FDT/DTM software, download at www.weidmueller.com
- Output current is limited to 35 mA for ignition group IIC
- 1 or 2 channels in one module
- Relay output for error alarm

ACT20X-SDI-HDO / 2SDI-2HDO



Technical data

Input	
Type	NPN, PNP switching signal
Input voltage	≤ 28 V DC
Input resistance, voltage	3.5 kΩ
Trigger level low	≤ 2.0 V DC (NPN), ≤ 8.0 V DC (PNP)
Trigger level high	≥ 4.0 V DC (NPN), ≥ 10V DC (PNP)
Alarm output	
Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)
General data	
Supply voltage	19.2 - 31.2 V DC
Power consumption	≤ 3.5 W (with 2 channels)
Tightening torque, min. / Tightening torque, max.	0.4 Nm / 0.6 Nm
Ambient temperature / Storage temperature	-20 °C...+60 °C / -20 °C...+85 °C
Approvals	
Approvals	cULus; DETNORVER; FMEX; GOSTEX; GOSTME25; IECEXKEM; KEMAATEX
Insulation coordination	
Insulation voltage	2.6 kV (input / output)
Rated voltage	300 V
EMC standards	DIN EN 61326

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Screw connection	
2.5 / 0.5 / 2.5	
119.2 / 22.5 /	

Ordering data

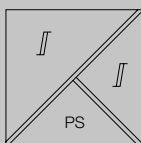
Type	Qty.	Order No.
1-channel version		
ACT20X-SDI-HDO-L-S	1 ST	8965400000
2-channel version		
ACT20X-2SDI-2HDO-S	1 ST	8965420000

CBX200 USB configuration adapter - 8978580000

Valve control module

- Valve control component for control of intrinsically safe valves, LEDs, acoustic alarms, etc.
- PC configuration with FDT/DTM software, download at www.weidmuller.com
- Output current is limited to 35 mA for ignition group IIC
- 1 or 2 channels in one module
- Relay output for error alarm

ACT20X-SDI-HDO-H-S



Technical data

Input	
Type	
Input voltage	
Input resistance, voltage	
Trigger level low	
Trigger level high	

Alarm output	
Type	
Nominal switching voltage	
Continuous current	
Power rating	

General data	
Supply voltage	
Power consumption	
Tightening torque, min. / Tightening torque, max.	
Ambient temperature / Storage temperature	

Approvals	
Approvals	

Insulation coordination	
Insulation voltage	
Rated voltage	
EMC standards	

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm

Note	

NPN, PNP switching signal
≤ 28 V DC
3.5 kΩ
≤ 2.0 V DC (NPN), ≤ 8.0 V DC (PNP)
≥ 4.0 V DC (NPN), ≥ 10V DC (PNP)

Relay, 1 NC (voltage-free)
≤ 125 V AC / 110 V DC (safe area)
≤ 32 V AC / 32 V DC (Zone 2)
≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)

≤ 62.5 VA / 32 W (safe area)
≤ 16 VA / 32 W (Zone 2)

19.2 - 31.2 V DC
< 2 W
0.4 Nm / 0.6 Nm
-20 °C...+60 °C / -20 °C...+85 °C

cULus; DETNORVER; FMEX; GOSTEX; GOSTME25; IECEXKEM; KEMAATEX
--

2.6 kV (input / output)
300 V
DIN EN 61326

Screw connection	
2.5 / 0.5 / 2.5	
119.2 / 22.5 /	

Ordering data

Type	Qty.	Order No.
1-channel version		
ACT20X-SDI-HDO-H-S	1 ST	8965410000

CBX200 USB configuration adapter - 8978580000

Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



Technical data

Machinery

Process

Energy

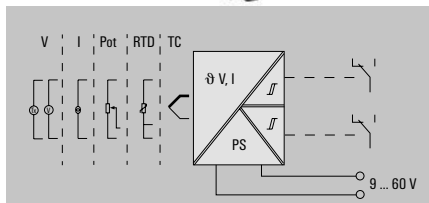
Transportation

Device Manufacturers

Universal limit value monitoring

- Universally configurable input for temperature, voltage ($\pm 300V$ DC), current ($\pm 5A$ DC), potentiometer, resistance
- Two independent relay outputs, each with multiple limit value functions: window alarm, upper/lower limits, hysteresis, delay, sensor fault detection, closed-circuit principle
- 4-way isolation
- Configuration on the device with 7-segment display or via FDT/DTM software

ACT20P-UI-2RCO-DC-S



Technical data

Input

Sensor

Input measurement range

Input voltage

Input current

Output (digital)

Type

Rated switching current

Max. switching voltage, AC

General data

Galvanic isolation

Accuracy

Temperature coefficient

Configuration

Power consumption

Step response time

Supply voltage

Ambient temperature (operational)

Insulation coordination

Rated voltage

EMC standards

Insulation voltage

Impulse withstand voltage

Pollution degree

Overvoltage category

Technical data

Thermocouples: B, E, J, K, L, N, R, S, T, U, PT100/2-/3-wire, PT200, PT1000, N120, Cu 10, Potentiometer: 1.2 k Ω - 500 k Ω , Resistance: 0 - 1.5 k Ω , Resistance: 0 - 12 k Ω , Resistance: 0 - 750 Ω

Thermocouple type J -100...+1200 $^{\circ}C$, Thermocouple type K -200...+1370 $^{\circ}C$, PT100 -200...+850 $^{\circ}C$, customization

configurable, ± 30 V DC, ± 300 V DC, ± 60 mV DC, ± 150 mV DC

Configurable, ± 5 A DC

2 CO contacts

200mA @ 110Vdc, 6A @ 24Vdc

240 V

4-way isolator, Input to supply / Alarm 1 / Alarm 2

< 0.05 % of measuring range

< 0.02 $^{\circ}C$ of measuring range / $^{\circ}C$

Using free Windows software, With FDT/DTM software, or via 7-segment display, buttons and rotary sensors on the device itself

3 W @ 240 V AC

450 ms

9...60 V DC

-20 $^{\circ}C$...70 $^{\circ}C$

300 V_{eff}

DIN EN 61326-1

3 kV

3 kV (1.2/50 μ s)

2

III

Dimensions

Clamping range (nominal / min. / max.)

Length x width x height

Note

Screw connection

2.5 / 0.5 / 2.5

/ 22.5 / 113.6

Ordering data

Type	Qty.	Order No.
ACT20P-UI-2RCO-DC-S	1	7940045760

Note

Accessories

Note

CBX200 USB configuration adapter - 8978580000

Device
Manufacturers



Transportation



Energy



Process



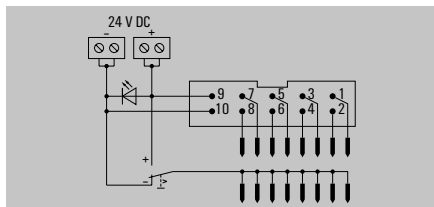
Machinery

Technical data

TERMSERIES adapters

- Suitable for input and output logic
- Version for 6.4 mm TERMSERIES base
- Supply connections (PUSH IN) in double execution for simple supply voltage bridging
- User-friendly and unique marking
- 10-pin connecting plug according to DIN EN 60603-13

TIA F10



Technical data

Supply

Supply voltage
Status display

Signals

Rated voltage
Voltage, max.
Rated current (per signal path)
Current (per signal path), max.
Total current of all signals, max.
Number of signal paths

Connection data (supply)

Wire connection method
Clamping range, rated connection, min.
Clamping range, rated connection, max.
Number of terminals

Connection data (signal)

Plug type

General data

Ambient temperature (operational)
Storage temperature
Humidity
UL 94 flammability rating
Approvals
CE; cULus; GL

Insulation coordination

Pollution degree
Overvoltage category
Impulse withstand voltage
Rated voltage
Protection degree

Dimensions

Depth x width x height mm

Note

Ordering data

Type	Qty.	Order No.
TIA F10	1	1463520000

Note

24 V DC ± 20 %

Green LED

24 V DC

30 V DC

125 mA

1 A

1 A

8

PUSH IN

0.13 mm²

1.5 mm²

4 (+, +, -, -)

10-pole plug according to DIN EN 60603-13, long locking lever

-40 °C...60 °C

-40 °C...85 °C

5...95% (indoor), T_v = 40°C, no condensation

V-0

CE; cULus; GL

2

III

1.5 kV

32 V

IP 20 in installed condition

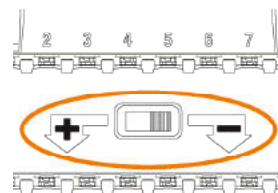
62 / 51 / 43

Suitable for 6.4 mm wide TERMSERIES base

Accessories

Note

Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

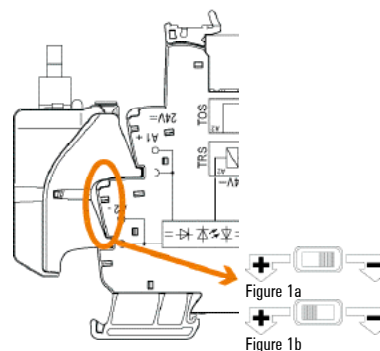


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).

Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Installation output

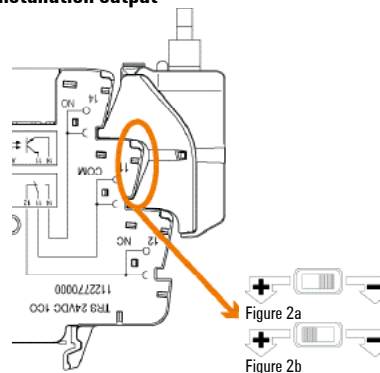


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on **output** (11/14).

Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on **output** (11/14).

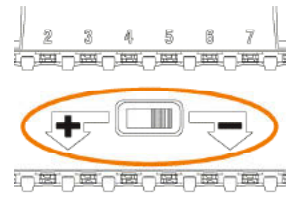
TERMSERIES adapters

- Suitable for input and output logic
- Version for 6.4 mm TERMSERIES base
- User-friendly and unique marking
- 15-pin sub-D plug according to DIN 41652 / IEC 60807

TIA SUBD 15S



Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

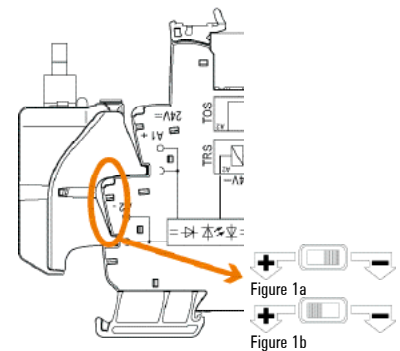


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).
 Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Installation output

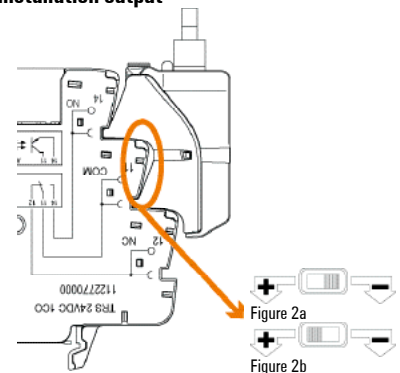
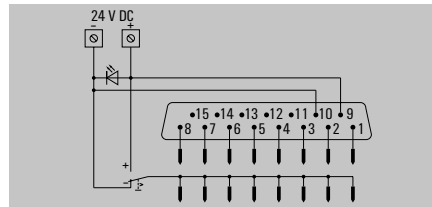


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on **output** (11/14).
 Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on **output** (11/14).



Technical data

Supply	
Supply voltage	24 V DC ± 20 %
Status display	Green LED
Signals	
Rated voltage	24 V DC
Voltage, max.	30 V DC
Rated current (per signal path)	125 mA
Current (per signal path), max.	1 A
Total current of all signals, max.	1 A
Number of signal paths	8
Connection data (supply)	
Wire connection method	PUSH IN
Clamping range, rated connection, min.	0.13 mm ²
Clamping range, rated connection, max.	1.5 mm ²
Number of terminals	2 (+,-)
Connection data (signal)	
Plug type	Sub-D, 15-pole, DIN 41652 / IEC 60807
General data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...85 °C
Humidity	5...95% (indoor), T _v = 40°C, no condensation
UL 94 flammability rating	V-0
Approvals	CE; cULus; GL
Insulation coordination	
Pollution degree	2
Overvoltage category	III
Impulse withstand voltage	1.5 kV
Rated voltage	32 V
Protection degree	IP 20 in installed condition

Dimensions		
Depth x width x height	mm	52 / 51 / 43
Note		
Ordering data		
Note		
Suitable for 6.4 mm wide TERMSERIES base		
Accessories		
Note		

Dimensions		
Depth x width x height	mm	52 / 51 / 43
Note		
Ordering data		
Note		
Suitable for 6.4 mm wide TERMSERIES base		
Accessories		
Note		

Ordering data		
Type	Qty.	Order No.
TIA SUBD 15S	1	1463530000

Note
Suitable for 6.4 mm wide TERMSERIES base

Accessories
Note

Technical data

Machinery

Process

Energy

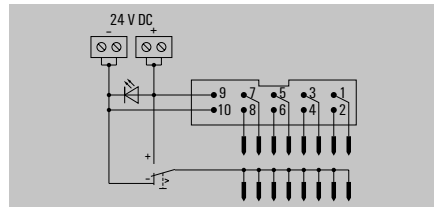
Transportation

Device Manufacturers

TERMSERIES adapters

- Suitable for input and output logic
- Version for 12.8 mm TERMSERIES base
- Supply connections (PUSH IN) in double execution for simple supply voltage bridging
- User-friendly and unique marking
- 10-pin connecting plug according to DIN EN 60603-13

TIAL F10



Technical data

Supply	
Supply voltage	24 V DC ± 20 %
Status display	Green LED
Signals	
Rated voltage	24 V DC
Voltage, max.	30 V DC
Rated current (per signal path)	125 mA
Current (per signal path), max.	1 A
Total current of all signals, max.	1 A
Number of signal paths	8
Connection data (supply)	
Wire connection method	PUSH IN
Clamping range, rated connection, min.	0.13 mm ²
Clamping range, rated connection, max.	1.5 mm ²
Number of terminals	4 (+, +, -, -)
Connection data (signal)	
Plug type	10-pole plug according to DIN EN 60603-13, long locking lever
General data	
Ambient temperature (operational)	-40 °C...60 °C
Storage temperature	-40 °C...85 °C
Humidity	5...95% (indoor), T _v = 40°C, no condensation
UL 94 flammability rating	V-0
Approvals	CE; cULus; GL
Insulation coordination	
Pollution degree	2
Overvoltage category	III
Impulse withstand voltage	1.5 kV
Rated voltage	32 V
Protection degree	IP 20 in installed condition

Dimensions	
Depth x width x height	62 / 102 / 43 mm
Note	
Suitable for 12.8 mm wide TERMSERIES base	

Ordering data

Note	
-------------	--

Type	Qty.	Order No.
TIAL F10	1	1463540000

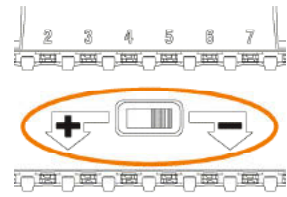
Note

Suitable for 12.8 mm wide TERMSERIES base

Accessories

Note	
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Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

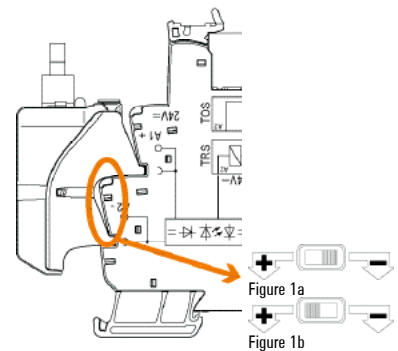


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).
 Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Installation output

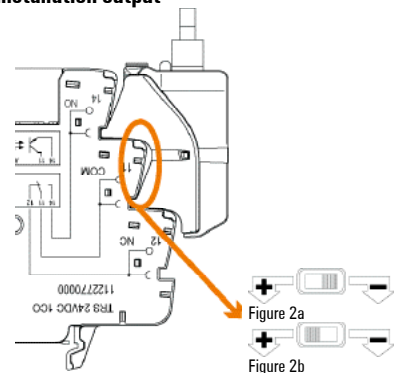
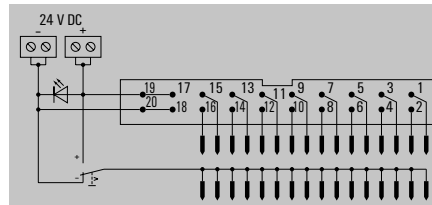


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on **output** (11/14).
 Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on **output** (11/14).

TERMSERIES adapters

- Suitable for input and output logic
- Version for 6.4 mm TERMSERIES base
- Supply connections (PUSH IN) in double execution for simple supply voltage bridging
- User-friendly and unique marking
- 20-pin connecting plug according to DIN EN 60603-13

TIAL F20



Technical data

Supply	Supply voltage Status display
Signals	Rated voltage Voltage, max. Rated current (per signal path) Current (per signal path), max. Total current of all signals, max. Number of signal paths
Connection data (supply)	Wire connection method Clamping range, rated connection, min. Clamping range, rated connection, max. Number of terminals
Connection data (signal)	Plug type
General data	Ambient temperature (operational) Storage temperature Humidity UL 94 flammability rating Approvals
Insulation coordination	Pollution degree Overvoltage category Impulse withstand voltage Rated voltage Protection degree

24 V DC ± 20 %
Green LED
24 V DC
30 V DC
60 mA
1 A
1 A
16
PUSH IN
0.13 mm ²
1.5 mm ²
4 (+,+,-,-)
20-pole plug according to DIN EN 60603-13, long locking lever
-40 °C...60 °C
-40 °C...85 °C
5...95% (indoor), T _v = 40°C, no condensation
V-0
CE; cULus; GL
2
III
1.5 kV
32 V
IP 20 in installed condition

Dimensions

Depth x width x height	mm	62 / 102 / 43
------------------------	----	---------------

Note

Ordering data

Type	Qty.	Order No.
TIAL F20	1	1463550000

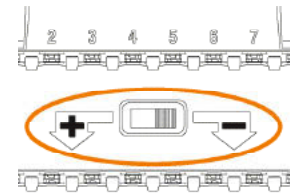
Note

Suitable for 6.4 mm wide TERMSERIES base

Accessories

Note

Potential change-over switch



The potential change-over switch is located between contact rows of the TERMSERIES adaptor. It is used to switch the potential of the lower contact row to "+" or "-" potential of the supply voltage.

Installation input

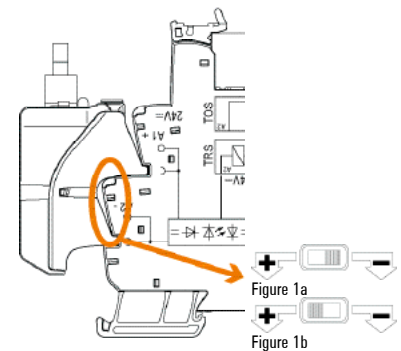


Figure 1a: **Positive-switching logic:** Potential change-over switch to "-", installation on **24 V DC input** (A1/A2).
Figure 1b: **Negative-switching logic:** Potential change-over switch to "+", installation on **24 V UC input** (A1/A2).

Installation output

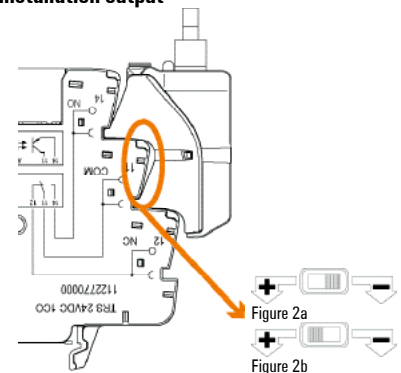
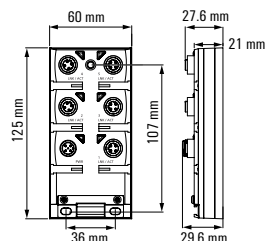


Figure 2a: **Positive-switching logic:** Potential change-over switch to "+", installation on **output** (11/14).
Figure 2b: **Negative-switching logic:** Potential change-over switch to "-", installation on **output** (11/14).

IP 67 unmanaged Fast Ethernet Switches

- M12 connection system and IP67 protected housing
- 10/100BaseT (X), 4-pin M12 (D-coded)
- Full/half duplex mode and auto MDI/MDI-X
- Input voltage 12 to 45 V DC, 18 to 30 V AC



Technical data

Technology	
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT (X) IEEE 802.3x for Flow Control
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	
MAC Table Size	2 K
Packet Buffer Size	384 Kbit
Interface	
M12-Ports	10/100BaseT (X) auto negotiation, full/half duplex mode and auto MDI/MDI-X connection, 4-pin, D-coded
LED Indicators	PWR, LNK/ACT
Power Requirements	
Input Voltage	24 V DC (12 to 45 V DC) 18 to 30 V AC (47 to 63 Hz)
Input Current	0,12 A @ 24 V DC 0,28 A @ 24 V AC
Overload Current Protection	1,1 A
Connection	1 x M12 socket, A-coded
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Plastic, IP 67 protection, encapsulated
Dimensions (W x H x D)	60 x 125 x 29.6 mm (2.36 x 4.92 x 1.09 Zoll)
Weight	270 g
Installation	Wall mounting, screwed
Environmental Limits	
Operating Temperature	Standard Models: -25 to 60 °C (-13 to 140 °F) Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)

Regulatory Approvals			
Safety	UL 508		
EMC	FCC Part 15 Subpart B Class A, EN 55022 Class A EN61000-4-2 (ESD), level 3; EN61000-4-3 (RS), surpasses level 3; EN61000-4-4 (EFT), level 3; EN61000-4-5 (Surge), level 3; EN61000-4-6 (CS), level 2; EN61000-4-8; EN61000-4-11		
Shock	IEC 60068-2-27		
Freefall	IEC 60068-2-32		
Vibration	IEC 60068-2-6		
MTBF (mean time between failures)			
Time	370.224 hrs		
Database	Telcordia (Bellcore), GB		
Warranty			
Warranty Period	5 years		
Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
5 * M12 10/100BaseT(X)	IE-SW-IP67-5M12	-25 to +60 °C	1504410000
	IE-SW-IP67T-5M12	-40 to +75 °C	1504420000



Device
Manufacturers



Transportation



Energy



Process

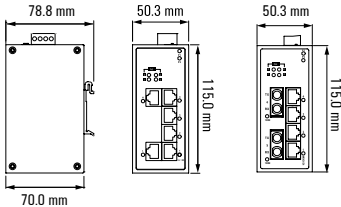


Machinery

Technical data

Unmanaged Fast Ethernet PoE+ Switch

- 4 IEEE 802.3af/at compliant PoE ports
- Up to 30 watts per PoE port
- 24/48 V DC redundant wide-range power supply
- Integrated DC/DC converter can supply 48 V-PoE devices across the entire input voltage range of 24 to 48 V DC
- Intelligent power consumption detection and classification
- Broadcast Storm Protection



Technical data

Technology	
Standards	802.3af/at for Power-over-Ethernet IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for Flow Control
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	
MAC table size	1 K
Packet buffer size	512 KB
Interface	
Fibre-optic ports	100BaseFX ports (SC/ST connector, multimode)
RJ45 Ports	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode and auto MDI/MDI-X connection
DIP Switches	Enable/disable broadcast storm protection
PoE pin assignment	V-, V-, V+, V+ for pin 1, 2, 3, 6 (endspan, MDI-X alternative A)
LED Indicators	PWR1, PWR2, 10/100M (TP-Port), 100M (Fibre-optic port), PoE
Optical Fibre	
	100BaseFX multimode
Wavelength	1300 nm
Max. Transmit power	-10 dBm
Min. Transmit power	-20 dBm
RX Sensitivity	-32 dBm
Link Budget	12 dB
Typical Distance	5 km (50/125 µm multimode cable) 4 km (62,5/125 µm multimode cable)
Saturation	-6 dBm
Power Requirements	
Input Voltage	24/48 (20 to 60 V) V DC, 2 redundant inputs
Input Current	Max 7.5 A @ 24 V DC (supports up to 4 ports at 30 watts per PoE port)
Overload Current Protection	Present
Connection	1 removable 4-contact terminal block
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Aluminium, IP 30 protection
Dimensions (W x H x D)	50 x 115 x 70 mm (1.96 x 4.52 x 2.76 in)
Weight	375 g
Installation	TS 35
Environmental Limits	
Operating Temperature	Standard Models: 0 to 60 °C (32 to 140 °F) Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)

Regulatory Approvals

Safety	UL 69050-1, UL 508
EMC	FCC Part 15 Subpart B Class A, EN 55022 Class A EN61000-4-2 (ESD), level 3; EN61000-4-3 (RS), level 3; EN61000-4-4 (EFT), level 4; EN61000-4-5 (Surge), level 4; EN61000-4-6 (CS), level 3; EN61000-4-8
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF (mean time between failures)	
Time	645.138 hrs
Datenbase	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years

Ordering data

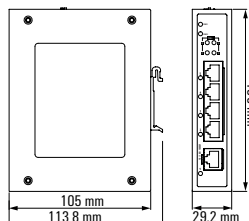
Port Variants	Type	Operating Temperature	Order No.
2 * RJ45 10/100 BaseT(X),	IE-SW-BL06-2TX-4PoE	0 to +60 °C	1241380000
4 * RJ45 10/100 BaseT(X) PoE+	IE-SW-BL06T-2TX-4PoE	-40 to +75 °C	1286920000
1 * RJ45 10/100 BaseT(X),	IE-SW-BL06-1TX-4PoE-1SC	0 to +60 °C	1504250000
4 * RJ45 10/100 BaseT(X) PoE+,	IE-SW-BL06T-1TX-4PoE-1SC	-40 to +75 °C	1504260000
1 * SC-Multimode			
1 * RJ45 10/100 BaseT(X),	IE-SW-BL06-1TX-4PoE-1ST	0 to +60 °C	1504270000
4 * RJ45 10/100 BaseT(X) PoE+,	IE-SW-BL06T-1TX-4PoE-1ST	-40 to +75 °C	1504290000
1 * ST-Multimode			
4 * RJ45 10/100 BaseT(X) PoE+,	IE-SW-BL06-4PoE-2SC	0 to +60 °C	1504210000
2 * SC-Multimode	IE-SW-BL06T-4PoE-2SC	-40 to +75 °C	1504220000
4 * RJ45 10/100 BaseT(X) PoE+,	IE-SW-BL06-4PoE-2ST	0 to +60 °C	1504230000
2 * ST-Multimode	IE-SW-BL06T-4PoE-2ST	-40 to +75 °C	1504240000

Accessories

	Type	Order No.
19" Rack Mounting Kit	RM-KIT	1241440000
Mounting kit for wall mounting	IE-WALLMOUNT-KIT-46MM	1504440000
Cable fixing kit	IE-CFK-05	1339610000

Unmanaged Gigabit Ethernet PoE+ Switches

- Full Gigabit on all ports
- IEEE 802.3af/at compliant PoE ports
- Up to 30 W per PoE+ port
- 24/48 V DC redundant wide-range power supply
- Support for jumbo frames (9.6 KB)
- Intelligent power consumption detection and classification
- Intelligent PoE surge voltage and short-circuit protection



Technical data

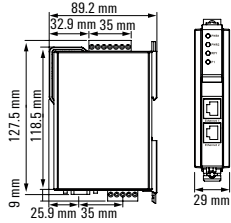
Technology	
Standards	802.3af/at for Power-over-Ethernet IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	
MAC table size	8 K
Packet buffer size	1088 Kbit
Interface	
Fibre-optic ports	1000BaseSFP-Slot
RJ45 Ports	10/100/1000BaseT(X) auto negotiation speed, Full/Half duplex mode and auto MDI/MDI-X connection
DIP Switches	Enable/disable broadcast storm protection Enable/disable jumbo frame support
PoE pin assignment	V+, V-, V- for Pin 1, 2, 3, 6 (endspan, MDI alternative A)
LED Indicators	PWR1, PWR2, 10/100/1000M (TP-Port), 1000M (SFP-Slot), PoE
Power Requirements	
Input Voltage	24/48 (20 to 60 V) V DC, 2 redundant inputs
Input Current	Max 7.5 A @ 24 V DC (supports up to 4 ports at 30 watts per PoE port)
Overload Current Protection	Present
Connection	2 removable 2-pin terminal blocks
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Aluminium, IP 30 protection
Dimensions (W x H x D)	29 x 135 x 105 mm (1.14 x 5.31 x 4.13 Zoll)
Weight	360 g
Installation	TS 35
Environmental Limits	
Operating Temperature	Standard Models: 0 to 60 °C (32 to 140 °F) Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)
Regulatory Approvals	
Safety	UL 508
EMC	FCC Part 15 Subpart B Class A, EN 55022 Class A EN61000-4-2 (ESD),level 3; EN61000-4-3 (RS),level 3; EN61000-4-4, level 4; EN61000-4-5 (Surge), level 4; EN61000-4-6 (CS),level 3; EN61000-4-8
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

MTBF (mean time between failures)			
Time	1.257.910 hrs		
Database	Telcordia (Bellcore), GB		
Warranty			
Warranty Period	5 years		
Ordering data			
Port Variants	Type	Operating Temperature	Order No.
1 * RJ45 10/100/1000 BaseT(X),	IE-SW-BL05-1GT-4GTPoE	0 to +60 °C	1504320000
4 * RJ45 10/100/1000 BaseT(X) PoE+	IE-SW-BL05T-1GT-4GTPoE	-40 to +75 °C	1504340000
1 * 1000BaseSFP Slot,	IE-SW-BL05-1GS-4GTPoE	0 to +60 °C	1504360000
4 * RJ45 10/100/1000 BaseT(X) PoE+	IE-SW-BL05T-1GS-4GTPoE	-40 to +75 °C	1504380000
Accessories			
	Type		Order No.
19" Rack Mounting Kit	RM-KIT		1241440000
Mounting kit for wall mounting	IE-WALLMOUNT-KIT-30MM		1504450000



Modbus TCP/ Modbus Serial Gateway

- Slave mode to support 16 TCP masters and up to 62 serial slaves simultaneously
- Master mode to support 32 TCP slaves simultaneously
- Integrated Modbus protocol analysis
- Redundant DC voltage supply inputs
- Cascaded Ethernet ports for easy cabling



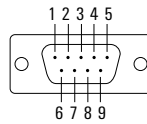
Technical data

Ethernet Interface	
Number of Ports	2
Speed	10/100 MBit/s, Auto-MDI-/MDIX
Connection	RJ45
Magnetic Isolation Protection	1.5 KV built-in
Serial Interface	
Number of Ports	1
Serial Standards	RS 232/422/485
Connection	DB9 for RS 232, terminal block for RS422/485
Serial Line Protection	15 KV ESD protection for all signals
RS 485 Data Direction Control	ADDC [®] (automatic data direction control)
Pull high/low resistor for RS 485	1 K Ω , 150 K Ω
Terminating resistor for RS 485	120 Ω
Serial Communication Parameters	
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS and DTR/DSR (RS 232)
Baud rate	50 bit/s to 921.6 kbit/s
Serial Signals	
RS 232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS 422	Tx+, Tx-, Rx+, Rx-, GND
RS 485 4w	Tx+, Tx-, Rx+, Rx-, GND
RS 485 2w	Data+, Data-, GND
Software	
Operating modes	RTU Slave, RTU Master, ASCII Slave, ASCII Master
Configuration Options	Web Console, Serial Console, Telnet Console, Windows Utility
Configuration tool	Modbus Gateway Administrator for Windows 98/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64
Multi-master and multi-drop	Master Mode: 32 TCP slaves, Slave mode: 16 TCP masters
Additional features	Serial Redirection, Priority Control
Technical data	
Housing	Plastic, IP 30 protection
Weight	190 g
Dimensions (W x H x D)	29 x 89.2 x 124.5 mm (1.14 x 3.51 x 4.90 Zoll)
Environmental Limits	
Operating temperature	Standard Models: 0 to 55 °C (32 to 131 °F), Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Ambient Relative Humidity	5 to 95 % RH
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Power Requirements	
Input Voltage	12 to 48 V DC
Current consumption	Max. 435 mA @ 12 V DC Max. 130 mA @ 48 V DC
Connection type	1 removable 7-pin terminal block
Alarm contact	1 relay output with a current capacity of 1 A at 30 V DC

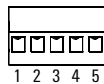
Approvals	
EMC	CE (EN55022 Class A, EN55024), FCC Part 15 Subpart B Class A
Security	UL 508
Hazardous Location	UL/cUL Class 1 Division 2 Groups A, B, C and D
EMS	
	EN61000-4-2 (ESD), level 3
	EN61000-4-3 (RS), level 3
	EN61000-4-4 (EFT), level 4
	EN61000-4-5 (Surge), level 3
	EN61000-4-6 (CS), level 3
	EN61000-4-8
	EN61000-4-11
Shock	
Freefall	IEC60068-2-27
Vibration	IEC60068-2-6
MTBF (mean time between failures)	
Time	210.794 hrs
Database	Telcordia (Bellcore), GB

Warranty	
Warranty Period	5 years

Pin assignment		
RS 232 Terminal (Male DB9)	PIN	RS 232
	1	DCD
	2	RXD
	3	TXD
	4	DTR
	5	GND
	6	DSR
	7	RTS
	8	CTS
	9	-



Pin assignment			
RS 422/485 Terminal Block Wiring	PIN	RS 422/RS 485-4w	RS 485-2w
	1	TxD+(B)	-
	2	TxD-(A)	-
	3	RxD+(B)	Data+(B)
	4	RxD-(A)	Data-(A)
	5	GND	GND



Ordering data			
Models	Type	Operating Temperature	Order No.
Two RJ45; One serial (RS232: Sub-DB9, RS422/485: terminal block)	IE-GW-MB-2TX-1RS232/485 IE-GWT-MB-2TX-1RS232/485	0 to +55 °C -40 to +75 °C	1504460000 1504470000

Accessories		
19" Rack Mounting Kit	Type RM-KIT	Order No. 1241440000



Device
Manufacturers



Transportation



Energy



Process



Machinery

Technical data

Technical data

Machinery

Process

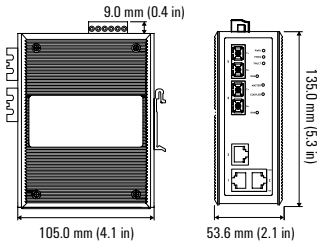
Energy

Transportation

Device Manufacturers

5-Port Managed Entry-level Ethernet Switches

- Supports the automation protocols Modbus/TCP, PROFINET RT and EtherNet/IP
- Turbo Ring and Turbo Chain with fast recovery time (<20 ms @ 250 switches)
- IGMP snooping, QoS, port- and tag-based VLAN
- Configurable error messages via SNMP trap, e-mail or relay output
- User-friendly, web-based configuration and management



Technical data

Standards	
IEEE 802.3 for 10BaseT ■ IEEE 802.3u for 100BaseT(X) and 100BaseFX ■ IEEE 802.3x for Flow Control ■ IEEE 802.1D-2004 for Spanning Tree Protocol ■ IEEE 802.1w for Rapid STP ■ IEEE 802.1p for Class of Service ■ IEEE 802.1Q for VLAN Tagging	
Protocols	
IGMPv1/v2 ■ GMRP ■ GVRP ■ SNMPv1/v2c/v3 ■ DHCP Server/Client ■ TFTP ■ SNMP ■ SMTP ■ RARP ■ RMON ■ HTTP ■ Telnet ■ Syslog ■ DHCP Option 66/67/82 ■ BootP ■ LLDP ■ Modbus/TCP ■ PROFINET RT (PROFINET-IO device in compliance with Conformance Class B) ■ EtherNet/IP (CIP support) ■ IPv6	
MIB	
MIB-II ■ Ethernet-like MIB ■ P-BRIDGE MIB ■ Bridge MIB ■ RSTP MIB ■ RMON MIB Group 1, 2, 3, 9 ■ Private MIB	
Flow Control	
IEEE 802.3x flow control ■ back pressure flow control	
Switch Properties	
MAC Table Size	2 K
Packet Buffer Size	1 MBit
Interface	
Fibre Ports	100BaseFX ports (SC/ST connector)
RJ45 Ports	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Console Port	RS 232 (RJ45 connector)
DIP Switches	Turbo Ring, Master, Coupler, Reserve
LED Indicators	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M
Alarm Contact	1 relay output with current carrying capacity of 1 A @ 24 V DC
Optical Fibre	
	100BaseFX multimode
Wavelength	1300 nm
Max. TX	-10 dBm
Min. TX	-20 dBm
RX Sensitivity	-32 dBm
Link Budget	12 dB
Typical Distance	5 km ^a
	4 km ^b
Saturation	-6 dBm
^a 50/125 µm, 800 MHz*km fibre optic cable	
^b 62.5/125 µm, 500 MHz*km fibre optic cable	
Power Requirements	
Input Voltage	24 V DC (12 to 45 V DC), redundant dual inputs
Input Current	IE-SW-VL05M-5TX: 0.24 A @ 24 V IE-SW-VL05M-3TX-2ST/2SC: 0.32 A @ 24 V
Overload Current Protection	Present
Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Metal, IP 3D protection
Dimensions (W x H x D)	53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)
Weight	IE-SW-VL05M-...5TX/3TX-2SC/3TX-2ST: 650 g
Installation	TS 35, wall mounting (with optional mounting kit)

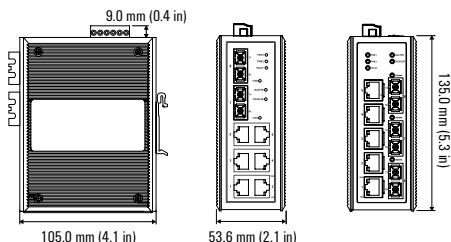
Environmental Limits	
Operating Temperature	Standard models: 0 to 60 °C (32 to 140 °F) Models with extended temperature range: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)
Regulatory Approvals	
Safety	UL 508, UL 60950-1, CSA C22.2 No. 60950-1, EN60950-1
Hazardous Location	UL/cUL Class I, Division 2, Groups A, B, C and D
EMI	FCC Part 15, CISPR (EN55022) class A
EMC	EN61000-4-2 (ESD), level 3; EN61000-4-3 (RS), level 3; EN61000-4-4 (EFT), level 3; EN61000-4-5 (Surge), level 3; EN61000-4-6 (CS), level 3; EN61000-4-8
Maritime	DNV
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF (mean time between failures)	
Time	852,421 hrs
Database	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years

Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
5 * RJ45	IE-SW-VL05M-5TX	0 to +60 °C	1504280000
5 * RJ45	IE-SW-VL05MT-5TX	-40 to +75 °C	1504310000
3 * RJ45, 2 * SC-Multimode	IE-SW-VL05M-3TX-2SC	0 to +60 °C	1504330000
3 * RJ45, 2 * SC-Multimode	IE-SW-VL05MT-3TX-2SC	-40 to +75 °C	1504350000
3 * RJ45, 2 * ST-Multimode	IE-SW-VL05M-3TX-2ST	0 to +60 °C	1504370000
3 * RJ45, 2 * ST-Multimode	IE-SW-VL05MT-3TX-2ST	-40 to +75 °C	1504390000

Accessories		
	Model Type	Order No.
External Backup and Restore Module	EBR-Module RS232	1241430000
19" Rack Mounting Kit	RM-KIT	1241440000
Mounting kit for wall mounting	IE-WALLMOUNT-KIT-46MM	1504440000

8-Port Managed Entry-level Ethernet Switches

- Supports the automation protocols Modbus/TCP, PROFINET RT and EtherNet/IP
- Turbo Ring and Turbo Chain with fast recovery time (<20 ms @ 250 switches)
- IGMP snooping, QoS, port- and tag-based VLAN
- Configurable error messages via SNMP trap, e-mail or relay output
- User-friendly, web-based configuration and management



Technical data

Standards	
IEEE 802.3 for 10BaseT ■ IEEE 802.3u for 100BaseT(X) and 100BaseFX ■ IEEE 802.3x for Flow Control ■ IEEE 802.1D-2004 for Spanning Tree Protocol ■ IEEE 802.1w for Rapid STP ■ IEEE 802.1p for Class of Service ■ IEEE 802.1Q for VLAN Tagging	
Protocols	
IGMPv1/v2 ■ GMRP ■ GVRP ■ SNMPv1/v2c/v3 ■ DHCP Server/Client ■ TFTP ■ SNMP ■ SMTP ■ RARP ■ RMON ■ HTTP ■ Telnet ■ Syslog ■ DHCP Option 66/67/82 ■ BootP ■ LLDP ■ Modbus/TCP ■ PROFINET RT (PROFINET-IO device in compliance with Conformance Class B) ■ EtherNet/IP (CIP support) ■ IPv6	
MIB	
MIB-II ■ Ethernet-like MIB ■ P-BRIDGE MIB ■ Bridge MIB ■ RSTP MIB ■ RMON MIB Group 1, 2, 3, 9 ■ Private MIB	
Flow Control	
IEEE 802.3x flow control ■ back pressure flow control	
Switch Properties	
MAC Table Size	8K
Packet Buffer Size	1 MBit
Interface	
Fibre Ports	100BaseFX ports (SC/ST connector)
RJ45 Ports	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Console Port	RS 232 (RJ45 connector)
DIP Switches	Turbo Ring, Master, Coupler, Reserve
LED Indicators	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M
Alarm Contact	1 relay output with current carrying capacity of 1 A @ 24 V DC
Optical Fibre	
	100BaseFX
	multimode singlemode
Wavelength	1300 nm 1310 nm
Max. TX	-10 dBm 0 dBm
Min. TX	-20 dBm -5 dBm
RX Sensitivity	-32 dBm -34 dBm
Link Budget	12 dB 29 dB
Typical Distance	5 km ^a 40 km ^c 4 km ^b
Saturation	-6 dBm -3 dBm
^a 50/125 µm, 800 MHz*km fibre optic cable	
^b 62.5/125 µm, 500 MHz*km fibre optic cable	
^c 9/125 µm singlemode fibre optic cable	
Power Requirements	
Input Voltage	24 V DC (12 to 45 V DC), redundant dual inputs
Input Current	IE-SW-VL08M-8TX: 0.26 A @ 24 V IE-SW-VL08M-6TX-2ST/2SC/2SCS: 0.35 A @ 24 V IE-SW-VL08M-5TX-3SC/1SC-2SCS: 0.32 A @ 24 V
Overload Current Protection	Present
Connection	1 removable 6-contact terminal block
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Metal, IP 30 protection
Dimensions (W x H x D)	53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)
Weight	IE-SW-VL08MT-...8TX/6TX-2SC/6TX-2ST/6TX-2SCS: 650 g IE-SW-VL08MT-...5TX/3SC/5TX-1SC-2SCS: 890 g

Physical Characteristics	
Installation	TS 35, wall mounting (with optional mounting kit)
Environmental Limits	
Operating Temperature	Standard models: 0 to 60 °C (32 to 140 °F) Models with extended temperature range: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)
Regulatory Approvals	
Safety	UL 508, UL 60950-1, CSA C22.2 No. 60950-1, EN60950-1
Hazardous Location	UL/cUL Class I, Division 2, Groups A, B, C and D; ATEX Zone 2 Ex nA nC IIC T4 Gc*
EMI	FCC Part 15, CISPR (EN55022) class A
EMC	EN61000-4-2 (ESD), level 3; EN61000-4-3 (RS), level 3; EN61000-4-4 (EFT), level 3; EN61000-4-5 (Surge), level 3; EN61000-4-6 (CS), level 3; EN61000-4-8
Maritime	DNV, GL**
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF (mean time between failures)	
Time	1,102,845 hrs 363,000 hrs (models IE-SW-VL08MT-5TX-3SC und IE-SW-VL08MT-5TX-1SC-2SCS)
Database	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years

Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
8 * RJ45	IE-SW-VL08MT-8TX	-40 to +75 °C	1240940000
5 * RJ45, 3 * SC-Multimode	IE-SW-VL08MT-5TX-3SC	-40 to +75 °C	1240970000
5 * RJ45, 1 * SC-Multimode, 2 * SC-Singlemode	IE-SW-VL08MT-5TX-1SC-2SCS	-40 to +75 °C	1345240000
6 * RJ45, 2 * ST-Multimode	IE-SW-VL08MT-6TX-2ST	-40 to +75 °C	1240990000
6 * RJ45, 2 * SC-Multimode	IE-SW-VL08MT-6TX-2SC	-40 to +75 °C	1344770000
6 * RJ45, 2 * SC-Singlemode	IE-SW-VL08MT-6TX-2SCS	-40 to +75 °C	1241020000

Accessories		
External Backup and Restore Module	Model Type	Order No.
	EBR-Module RS232	1241430000
19" Rack Mounting Kit	RM-KIT	1241440000
Mounting kit for wall mounting	IE-WALLMOUNT-KIT-46MM	1504440000
Note		

*ATEX-Zone 2 does not apply to the models IE-SW-VL08MT-5TX-3SC and IE-SW-VL08MT-5TX-1SC-2SCS)
** does not apply to the models IE-SW-VL08MT-5TX-3SC and IE-SW-VL08MT-5TX-1SC-2SCS



Technical data

Machinery

Process

Energy

Transportation

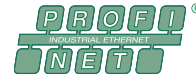
Device Manufacturers

Managed Fast Ethernet Switches

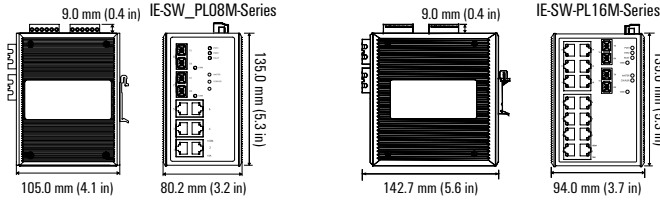
- Supports the automation protocols Modbus/TCP, PROFINET RT and EtherNet/IP
- Plug-n-play Turbo Ring and Turbo Chain (<20 ms @ 250 switches)
- IEEE 1588 PTP, Modbus/TCP, LLDP, SNMP Inform, QoS, IGMP snooping, VLAN, IEEE 802.1X, HTTPS, SNMPv3, and SSH supported



EtherNet/IP



Modbus-IDA
the architecture for distributed automation



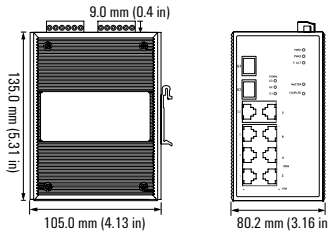
Technical data

Standards		
IEEE 802.3 for 10BaseT ■ IEEE 802.3u for 100BaseT (X) and 100BaseFX ■ IEEE 802.3x for Flow Control ■ IEEE 802.1D-2004 for Spanning Tree Protocol ■ IEEE 802.1w for Rapid STP ■ IEEE 802.1Q for VLAN Tagging ■ IEEE 802.1p for Class of Service ■ IEEE 802.1X for Authentication ■ IEEE 802.3ad for Port Trunk with LACP		
Protocols		
IGMPv1/v2 ■ GVRP ■ SNMPv1/v2c/v3 ■ DHCP Server/Client ■ BootP ■ TFTP ■ SNTp ■ SMTP ■ RARP ■ GMRP ■ LACP ■ RMON ■ HTTP ■ HTTPS ■ Telnet ■ Syslog ■ DHCP Option 66/67/82 ■ SSH ■ SNMP Inform ■ Modbus/TCP ■ PROFINET RT (PROFINET-IO device in compliance with Conformance Class B) ■ EtherNet/IP (CIP support) ■ LLDP ■ IEEE 1588 PTP ■ IPv6		
MIB		
MIB-II ■ Ethernet-Like MIB ■ P-BRIDGE MIB ■ Q-BRIDGE MIB ■ Bridge MIB ■ RSTP MIB ■ RMON MIB Group 1, 2, 3, 9 ■ Private MIB		
Flow Control		
IEEE 802.3x flow control ■ back pressure flow control		
Switch Properties		
Priority Queues	4	
Max. Number of Available VLANs	64	
VLAN ID Range	VID 1 to 4094	
IGMP Groups	256	
MAC Table Size	8 K	
Packet Buffer Size	1 MBit (IE-SW-PL08M series), 2 MBit (IE-SW-PL16M series)	
Interface		
Fibre Ports	100BaseFX ports (SC/ST connector)	
RJ45 Ports	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	
Console Port	RS 232 (RJ45 connector)	
DIP Switches	Turbo-ring, master, coupler, reserve (only IE-SW-PL08M series)	
LED Indicators	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M	
Alarm Contact	2 relay outputs with current carrying capacity of 1 A @ 24 V DC	
Digital Inputs	2 inputs with the same ground, electrically isolated • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	
Optical Fibre		
	100BaseFX	
	multimode	singlemode
Wavelength	1300 nm	1310 nm
Max. TX	-10 dBm	0 dBm
Min. TX	-20 dBm	-5 dBm
RX Sensitivity	-32 dBm	-34 dBm
Link Budget	12 dB	29 dB
Typical Distance	5 km (50/125 µm multimode cable) 4 km (62.5/125 µm multimode cable)	40 km (9/125 µm singlemode cable)
Saturation	-6 dBm	-3 dBm
Power Requirements		
Input Voltage	24 V DC (12 to 45 V DC), redundant dual inputs	
Input Current	IE-SW-PL08M-8TX: 0.26 A @ 24 V IE-SW-PL08M-6TX-2SC/ST/2SCS: 0.36 A @ 24 V IE-SW-PL16M-16TX: 0.41 A @ 24 V IE-SW-PL16M-14TX-2SC/ST: 0.51 A @ 24 V	

Power Requirements			
Overload Current Protection	Present		
Connection	2 removable 6-contact terminal blocks		
Reverse Polarity Protection	Present		
Physical Characteristics			
Housing	Metal, IP 30 protection		
Dimensions (W x H x D)	IE-SW-PL08M: 80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in) IE-SW-PL16M: 94 x 135 x 142.7 mm (3.7 x 5.31 x 5.62 in)		
Weight	IE-SW-PL08M: 1040 g, IE-SW-PL16M: 1586 g		
Installation	TS 35, wall mounting (with optional mounting kit)		
Environmental Limits			
Operating Temperature	Standard Models: 0 to 60 °C (32 to 140 °F) Wide Temp. Models: -40 to 75 °C (-40 to 167 °F) (on request)		
Storage Temperature	-40 to 85 °C (-40 to 185 °F)		
Ambient Relative Humidity	5 to 95 % (non-condensing)		
Regulatory Approvals			
Safety	UL 508, UL 60950-1, CSA C22.2 No. 60950-1, EN60950-1		
Hazardous Location	UL/cUL Class I, Division 2, Groups A, B, C and D; ATEX Zone 2 Ex nA nC IIC T4 Gc		
EMI	FCC Part 15, CISPR (EN55022) class A		
EMC	EN61000-4-2 (ESD); IE-SW-PL08M...Series: level 3 IE-SW-PL16M...Series: level 2; EN61000-4-3 (RS) level 3; EN61000-4-4 (EFT) level 3; EN61000-4-5 (Surge) level 3; EN61000-4-6 (CS) level 3; EN61000-4-8		
Maritime	DNV, GL		
Shock	IEC 60068-2-27		
Freefall	IEC 60068-2-32		
Vibration	IEC 60068-2-6		
MTBF (mean time between failures)			
Time	IE-SW-PL08M...Series: 339,000 hrs IE-SW-PL16M...Series: 247,000 hrs		
Database	Telcordia (Bellcore), GB		
Warranty			
Warranty Period	5 years		
Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
8 * RJ45	IE-SW-PL08M-8TX	0 to 60 °C	1241040000
	IE-SW-PL08MT-8TX	-40 to +75 °C	1286780000
6 * RJ45, 2 * SC-Multimode	IE-SW-PL08M-6TX-2SC	0 to 60 °C	1241070000
	IE-SW-PL08MT-6TX-2SC	-40 to +75 °C	1286790000
6 * RJ45, 2 * ST-Multimode	IE-SW-PL08M-6TX-2ST	0 to 60 °C	1241080000
	IE-SW-PL08MT-6TX-2ST	-40 to +75 °C	1286800000
6 * RJ45, 2 * SC-Singlemode	IE-SW-PL08M-6TX-2SCS	0 to 60 °C	1241090000
	IE-SW-PL08MT-6TX-2SCS	-40 to +75 °C	1286810000
16 * RJ45	IE-SW-PL16M-16TX	0 to 60 °C	1241100000
	IE-SW-PL16MT-16TX	-40 to +75 °C	1286820000
14 * RJ45, 2 * SC-Multimode	IE-SW-PL16M-14TX-2SC	0 to 60 °C	1241120000
	IE-SW-PL16MT-14TX-2SC	-40 to +75 °C	1286830000
14 * RJ45, 2 * ST-Multimode	IE-SW-PL16M-14TX-2ST	0 to 60 °C	1241130000
	IE-SW-PL16MT-14TX-2ST	-40 to +75 °C	1286840000

Managed Gigabit Ethernet Switches

- Supports the automation protocols Modbus/TCP, PROFINET RT and EtherNet/IP
- 2 Gigabit Ethernet ports for redundant ring and 1 Gigabit Ethernet port for uplink solution
- Ring redundancy with fast recovery time (≤ 20 ms @ 250 switches)
- IEEE 1588 PTP, LLDP, SNMP Inform, QoS, IGMP snooping, VLAN, IEEE 802.1X, HTTPS, SNMPv3, and SSH supported



EtherNet/IP

PROFINET
PROFIBUS
ETHERCAT

Modbus-IDA
the architecture for distributed automation

Technical data

Standards	
IEEE 802.3 for 10BaseT ■ IEEE 802.3u for 100BaseT (X) and 100BaseFX ■ IEEE 802.3ab for 1000BaseT(X) ■ IEEE 802.3z for 1000BaseX ■ IEEE 802.3x for Flow Control ■ IEEE 802.1D-2004 for Spanning Tree Protocol ■ IEEE 802.1w for Rapid STP ■ IEEE 802.1Q for VLAN Tagging ■ IEEE 802.1p for Class of Service ■ IEEE 802.1X for Authentication ■ IEEE 802.3ad for Port Trunk with LACP	
Protocols	
IGMPv1/v2 ■ GMRP ■ GVRP ■ SNMPv1/v2c/v3 ■ DHCP Server/Client ■ BootP ■ TFTP ■ SNTp ■ SMTP ■ RARP ■ RMON ■ HTTP ■ HTTPS ■ Telnet ■ Syslog ■ DHCP Option 66/67/82 ■ SSH ■ SNMP Inform ■ Modbus/TCP ■ PROFINET RT (PROFINET-IO device in compliance with Conformance Class B) ■ EtherNet/IP (CIP support) ■ LLDP ■ IEEE 1588 PTP ■ IPv6	
MIB	
MIB-II ■ Ethernet-Like MIB ■ P-BRIDGE MIB ■ Q-BRIDGE MIB ■ Bridge MIB ■ RSTP MIB ■ RMON MIB Group 1, 2, 3, 9 ■ Private MIB	
Flow Control	
IEEE 802.3x flow control ■ back pressure flow control	
Switch Properties	
Priority Queues	4
Max. Number of Available VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256
MAC Table Size	8 K
Packet Buffer Size	1 MBit
Interface	
Fibre Ports	1000BaseSFP-Slot (100BaseSFP modules are not supported)
RJ45 Ports	10/100BaseT(X) oder 10/100/1000BaseT(X) auto negotiation
Console Port	RS 232 (RJ45 connector)
DIP Switches	Turbo-Ring, Master, Coupler, Reserve
LED Indicators	PWR1, PWR2, FAULT, 10/100M (TP-Port), 1000M (Gigabit-Port), MSTR/HEAD, CPLR/TAIL
Alarm Contact	2 relay outputs with current carrying capacity of 1 A @ 24 V DC
Digital Inputs	2 inputs with the same ground, but electrically isolated from the electronics • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA
Power Requirements	
Input Voltage	24 V DC (12 to 45 V DC), redundant dual inputs
Input Current	IE-SW-PL10M-3GT-7TX: 0.65 A @ 24 V IE-SW-PL10M-1GT-2GS-7TX: 0.44 A @ 24 V
Overload Current Protection	Present
Connection	2 removable 6-contact terminal blocks
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Metal, IP 30 protection
Dimensions (W x H x D)	80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)
Weight	1170 g
Installation	TS 35, wall mounting (with optional mounting kit)

Environmental Limits	
Operating Temperature	Standard Models: 0 to 60 °C (32 to 140 °F); Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)
Regulatory Approvals	
Safety	UL 508, UL 60950-1, CSA C22.2 No. 60950-1, EN60950-1
Hazardous Location	UL/cUL Class I, Division 2, Groups A, B, C and D; ATEX Zone 2 Ex nA nC IIC T4 Gc
EMI	FCC Part 15, CISPR (EN55022) Class A
EMC	EN61000-4-2 (ESD), level 3; EN61000-4-3 (RS), level 3; EN61000-4-4 (EFT), level 3; EN61000-4-5 (Surge), level 3; EN61000-4-6 (CS), level 3; EN61000-4-8
Maritime	DNV, GL
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF (mean time between failures)	
Time	204.000 hrs
Database	MIL-HDBK-217J, GB 25 °C
Warranty	
Warranty Period	5 years

Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
3 * RJ45 10/100/1000BaseT(X),	IE-SW-PL10M-3GT-7TX	0 to 60 °C	1241290000
7 * RJ45 10/100BaseT(X)	IE-SW-PL10MT-3GT-7TX	-40 to +75 °C	1286930000
1 * RJ45 10/100/1000BaseT(X),	IE-SW-PL10M-1GT-2GS-7TX	0 to 60 °C	1241300000
2 * Slots 1000BaseSFP,	IE-SW-PL10MT-1GT-2GS-7TX	-40 to +75 °C	1286940000
7 * RJ45 10/100BaseT(X)			

Accessories		
	Model Type	Order No.
External Backup and Restore Module	EBR-Modul RS232	1241430000
19" Rack Mounting Kit	RM-KIT	1241440000
Mounting kit for wall mounting	IE-WALLMOUNT-KIT-46MM	1504440000

Note

The IE-SW-PL10M 1GT-2GS-7TX supports up to 2 1000Base SFP slots.

Technical data

Machinery

Process

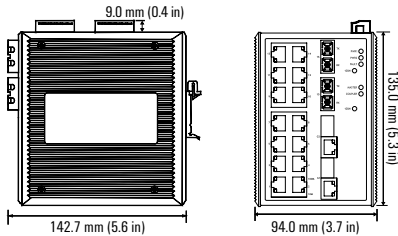
Energy

Transportation

Device Manufacturers

Managed Gigabit Ethernet Switches

- Supports the automation protocols Modbus/TCP, PROFINET RT and EtherNet/IP
- 2 Gigabit Ethernet ports plus 16 Fast Ethernet ports for copper and fibre
- Ring redundancy with rapid recovery time (≤ 20 ms @ 250 switches)
- IEEE 1588 PTP, LLDP, SNMP Inform, QoS, IGMP snooping, VLAN, IEEE 802.1X, HTTPS, SNMPv3, and SSH supported



Technical data

Standards	
IEEE 802.3 for 10BaseT ■ IEEE 802.3u for 100BaseT(X) and 100BaseFX ■ IEEE 802.3ab for 1000BaseT(X) ■ IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control ■ IEEE 802.1D-2004 for Spanning Tree Protocol ■ IEEE 802.1w for Rapid STP ■ IEEE 802.1Q for VLAN Tagging ■ IEEE 802.1p for Class of Service ■ IEEE 802.1X for Authentication ■ IEEE 802.3ad for Port-Trunk mit LACP	
Protocols	
IGMPv1/v2 ■ GMRP, GVRP ■ SNMPv1/v2c/v3 ■ DHCP Server/Client ■ BootP ■ TFTP ■ SNTp ■ SMTP ■ RARP ■ RMON ■ HTTP ■ HTTPS ■ Telnet ■ Syslog ■ DHCP-Option 66/67/82 ■ SSH ■ SNMP Inform ■ Modbus/TCP ■ PROFINET RT (PROFINET-IO device in compliance with Conformance Class B) ■ EtherNet/IP (CIP support) ■ LLDP ■ IEEE 1588 PTP ■ IPv6	
MIB	
MIB-II ■ Ethernet-like MIB ■ P-BRIDGE MIB ■ Q-BRIDGE MIB ■ Bridge MIB ■ RSTP MIB ■ RMON MIB Group 1, 2, 3, 9 ■ Private MIB	
Flow Control	
IEEE 802.3x flow control ■ back pressure flow control	
Switch Properties	
Priority Queues	4
Max. Number of Available VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256
MAC Table Size	8 K
Packet Buffer Size	2 MBit
Interface	
Fibre Ports	100BaseFX (SC/ST connection) and 1000BaseSFP slot (100BaseSFP modules are not supported)
RJ45 Ports	10/100BaseT(X) oder 10/100/1000BaseT(X) auto negotiation
Console Port	RS 232 (RJ45 connector)
LED Indicators	PWR1, PWR2, FAULT, 10/100M (TP-Port), 100M (Glasfaser-Port), MSTR/HEAD, CPLR/TAIL
Alarm Contact	2 relay outputs with current carrying capacity of 1 A @ 24 V DC
Digital Inputs	2 inputs with the same ground, but electrically isolated from the electronics. <ul style="list-style-type: none"> • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA

	Optical Fibre	
	100BaseFX	
	multimode	singlemode
Wavelength	1300 nm	1310 nm
Max. TX	-10 dBm	0 dBm
Min. TX	-20 dBm	-5 dBm
RX Sensitivity	-32 dBm	-34 dBm
Link Budget	12 dB	29 dB
Typical Distance	5 km (50/125 µm multimode cable) 4 km (62.5/125 µm multimode cable)	40 km (9/125 µm singlemode cable)
Saturation	-6 dBm	-3 dBm

Power Requirements	
Input Voltage	24 V DC (12 to 45 V DC), redundant dual inputs
Input Current	IE-SW-PL18M-2GC-16TX: 0.51 A @ 24 V IE-SW-PL18M-SC/ST/SCS: 0.61 A @ 24 V
Overload Current Protection	Present
Connection	2 removable 6-contact terminal blocks
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Metal, IP 30 protection
Dimensions (W x H x D)	94 x 135 x 142.7 mm (3.7 x 5.31 x 5.62 in)
Weight	1630 g
Installation	TS 35, wall mounting (with optional mounting kit)
Environmental Limits	
Operating Temperature	Standard Models: 0 to 60 °C (32 to 140 °F) Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)
Regulatory Approvals	
Safety	UL 508, UL 60950-1, CSA C22.2 No. 60950-1, EN60950-1
Hazardous Location	UL/cUL Class I, Division 2, Groups A, B, C and D; ATEX Zone 2 Ex nA nC IIC T4 Gc
EMC	FCC Part 15, CISPR (EN55022) Class A EN61000-4-2 (ESD), level 2; EN61000-4-3 (RS), level 3; EN61000-4-4 (EFT), level 2; EN61000-4-5 (Surge), level 3; EN61000-4-6 (CS), level 3; EN61000-4-8; EN61000-4-12
Maritime	DNV, GL
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF (mean time between failures)	
Time	240.000 hrs
Database	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years

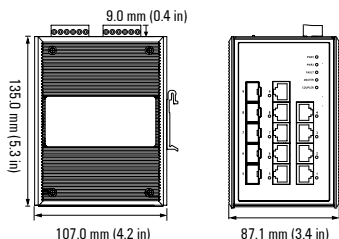
Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
16 * RJ45 10/100BaseT(X),	IE-SW-PL18M-2GC-16TX	0 to +60 °C	1241320000
2 * Combo Ports ¹	IE-SW-PL18MT-2GC-16TX	-40 to +75 °C	1286970000
14 * RJ45 10/100BaseT(X),	IE-SW-PL18M-2GC14TX2SC	0 to +60 °C	1241330000
2 * SC-Multimode 100BaseFX,	IE-SW-PL18MT-2GC14TX2SC	-40 to +75 °C	1286990000
2 * Combo Ports ¹			
14 * RJ45 10/100BaseT(X),	IE-SW-PL18M-2GC14TX2ST	0 to +60 °C	1241340000
2 * ST-Multimode 100BaseFX,	IE-SW-PL18MT-2GC14TX2ST	-40 to +75 °C	1287000000
2 * Combo Ports ¹			
14 * RJ45 10/100BaseT(X),	IE-SW-PL18M-2GC14TX2SCS	0 to +60 °C	1241350000
2 * SC-Singlemode 100BaseFX,	IE-SW-PL18MT-2GC14TX2SCS	-40 to +75 °C	1287010000
2 * Combo Ports ¹			

Note
The IE-SW-PL18M series supports up to 2 1000Base SFP slots. Corresponding

¹ (10/100/1000BaseT(X) or 100/1000BaseSFP)

Managed Full Gigabit Ethernet Switch

- Supports the automation protocols Modbus/TCP, PROFINET RT and EtherNet/IP
- 4 10/100/1000BaseT(X) ports plus 5 combo (10/100/1000BaseT(X) or 100/1000BaseSFP slot) Gigabit ports
- Ring redundancy with rapid recovery time (≤ 20 ms @ 250 switches)
- IEEE 1588 PTP, LLDP, SNMP Inform, QoS, IGMP snooping, VLAN, IEEE 802.1X, HTTPS, SNMPv3, and SSH supported



Technical data

Standards	
IEEE 802.3 for 10BaseT ■ IEEE 802.3u for 100BaseT (X) and 100BaseFX ■ IEEE 802.3ab for 1000BaseT(X) ■ IEEE 802.3z for 1000BaseX ■ IEEE 802.3x for Flow Control ■ IEEE 802.1D-2004 for Spanning Tree Protocol ■ IEEE 802.1w for Rapid STP ■ IEEE 802.1Q for VLAN Tagging ■ IEEE 802.1p for Class of Service ■ IEEE 802.1X for Authentication ■ IEEE 802.3ad for Port Trunk with LACP	
Protocols	
IGMPv1/v2 ■ GMRP ■ GVRP ■ SNMPv1/v2c/v3 ■ DHCP Server/Client ■ DHCP Option 66/67/82 ■ BootP ■ TFTP ■ SNTP ■ SMTP ■ RARP ■ RMON ■ HTTP ■ HTTPS ■ Telnet ■ SSH ■ Syslog ■ Modbus/TCP ■ PROFINET RT (PROFINET-IO device in compliance with Conformance Class B) ■ EtherNet/IP (CIP support) ■ SNMP Inform ■ LLDP ■ IEEE 1588 PTP ■ IPv6	
MIB	
MIB-II ■ Ethernet-Like MIB ■ P-BRIDGE MIB ■ Q-BRIDGE MIB ■ Bridge MIB ■ RSTP MIB ■ RMON MIB Group 1, 2, 3, 9 ■ Private MIB	
Flow Control	
IEEE 802.3x flow control ■ back pressure flow control	
Switch Properties	
Priority Queues	4
Max. Number of Available VLANs	64
VLAN ID Range	ID 1 to 4094
IGMP Groups	256
MAC Table Size	8 K
Packet Buffer Size	1 MBit
Interface	
Fibre Ports	100/1000Base SFP Slot
RJ45 Ports	10/100/1000BaseT(X) auto negotiation
Console Port	RS 232 (RJ45 connector)
DIP Switches	Turbo-Ring, Master, Coupler, Reserve
LED Indicators	PWR1, PWR2, FAULT, 10/100/1000M, MSTR/HEAD, CPLR/TAIL
Alarm Contact	2 relay outputs with current carrying capacity of 1 A @ 24 V DC
Digital Inputs	2 inputs with the same ground, but electrically isolated from the electronics <ul style="list-style-type: none"> • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA
Power Requirements	
Input Voltage	12/24/48 V DC, redundant dual inputs
Input Current	0.81 A @ 24 V
Overload Current Protection	Present
Connection	2 removable 6-contact terminal blocks
Reverse Polarity Protection	Present
Physical Characteristics	
Housing	Metal, IP 30 protection
Dimensions (W x H x D)	87.1 × 135 × 107 mm (3.43 × 5.31 × 4.21 in)
Weight	1510 g
Installation	TS 35, wall mounting (with optional mounting kit)

Environmental Limits	
Operating Temperature	Standard Models: 0 to 60 °C (32 to 140 °F) Wide Temp. Models: -40 to 75 °C (-40 to 167 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Relative Humidity	5 to 95 % (non-condensing)
Regulatory Approvals	
Safety	UL 508, EN60950-1
EMI	FCC Part 15, CISPR (EN55022) Class A
EMC	EN61000-4-2 (ESD), level 3; EN61000-4-3 (RS), level 3; EN61000-4-4 (EFT), level 3; EN61000-4-5 (Surge), level 3; EN61000-4-6 (CS), level 3; EN61000-4-8
Maritime	DNV, GL
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF (mean time between failures)	
Time	330.000 hrs
Database	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years

Ordering data			
Port Variants	Model Type	Operating Temperature	Order No.
4 * RJ45 10/100/1000BaseT(X)	IE-SW-PL09M-5GC-4GT	0 to 60 °C	1241370000
5 * Combo Ports ¹	IE-SW-PL09MT-5GC-4GT	-40 to +75 °C	1287020000

Accessories		
	Model Type	Order No.
External Backup and Restore Module	EBR-Modul RS232	1241430000
19" Rack Mounting Kit	RM-KIT	1241440000
Mounting kit for wall mounting	IE-WALLMOUNT-KIT-46MM	1504440000

Note
The IE-SW-PL09M series supports up to 5 100/1000Base SFP slots.

¹(10/100/1000BaseT(X) or 100/1000BaseSFP)



Technical data

Machinery

Process

Energy

Transportation

Device

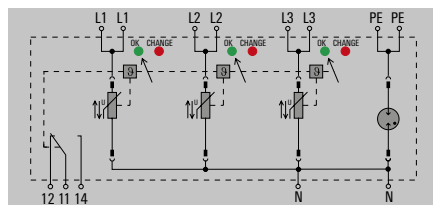
Manufacturers

Type I and II lightning arrester for use downstream of the electrical meter

- Suitable with 25 kA (10/350 µs) for protective zones I, II, III and IV (LPL I/II/III/IV)
- Pluggable arrester
- Tested according to IEC 61643-11 for Type I and II surge protection

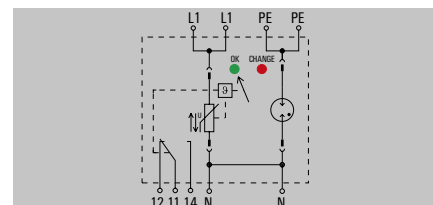
VPU I 3+1/R 400 V / 25 kA

TN-S, TT, IT



VPU I 1+1/R 400 V / 25 kA

1-phase



Technical data

Rated voltage (AC)	400 V
Max. continuous voltage, U _c (AC)	400 V
Temporary surge voltage (over-voltage) - TOV	620 V
Requirements category acc. to IEC 61643-11	Type I, Type II
Lightning test current I _{imp} (10/350 µs)	25 kA
Short-circuit current rating I _{SCCR}	25 kA
Rated load current I _L	125 A
PE conductor current I _{PE}	30 µA
Short-circuit strength with max. back-up fuse	25 kA _{eff}
Response time	≤ 25 ns, ≤ 100 ns
Fuse, max.	250 A gL
Protection level U _p (typ.)	≤ 1.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing: 8 TE, Insta IP 20
Colour	Black, Arrester red / blue
Ambient temperature (operational)	-40 °C...70 °C
Connection according to IEC 947-7-1	
Solid	4...16 mm ²
Stranded	2.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE; EAC; GOSTME25
Standards	IEC61643-11, EN61643-11

Rated voltage (AC)	400 V
Max. continuous voltage, U _c (AC)	400 V
Temporary surge voltage (over-voltage) - TOV	620 V
Requirements category acc. to IEC 61643-11	Type I, Type II
Lightning test current I _{imp} (10/350 µs)	25 kA
Short-circuit current rating I _{SCCR}	25 kA
Rated load current I _L	125 A
PE conductor current I _{PE}	30 µA
Short-circuit strength with max. back-up fuse	25 kA _{eff}
Response time	≤ 25 ns, ≤ 100 ns
Fuse, max.	250 A gL
Protection level U _p (typ.)	≤ 1.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Installation housing: 8 TE, Insta IP 20
Colour	Black, Arrester red / blue
Ambient temperature (operational)	-40 °C...70 °C
Connection according to IEC 947-7-1	
Solid	4...16 mm ²
Stranded	2.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE; EAC; GOSTME25
Standards	IEC61643-11, EN61643-11

Rated voltage (AC)	400 V
Max. continuous voltage, U _c (AC)	400 V
Temporary surge voltage (over-voltage) - TOV	620 V
Requirements category acc. to IEC 61643-11	Type I, Type II
Lightning test current I _{imp} (10/350 µs)	25 kA
Short-circuit current rating I _{SCCR}	25 kA
Rated load current I _L	125 A
PE conductor current I _{PE}	30 µA
Short-circuit strength with max. back-up fuse	25 kA _{eff}
Response time	≤ 25 ns, ≤ 100 ns
Fuse, max.	250 A gL
Protection level U _p (typ.)	≤ 1.9 kV
Optical function display	green = OK; red = arrester is defective - replace
Design	Insta IP 20, Installation housing: 4TE
Colour	Black, Arrester red / blue
Ambient temperature (operational)	-40 °C...70 °C
Connection according to IEC 947-7-1	
Solid	4...16 mm ²
Stranded	2.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE; EAC; GOSTME25
Standards	IEC61643-11, EN61643-11

Dimensions / Signalling contact info	
Clamping range (nominal / min. / max.)	mm ²
Height x width x depth	mm
Signalling contact	No
Note	

no remote sig. contact	with remote signalling (R)
16 / 4 / 50	16 / 4 / 50
94 / 142.4 / 69	106 / 142.4 / 69
No	250 V 1A 1CO
Note	

no remote sig. contact	with remote signalling (R)
16 / 4 / 50	16 / 4 / 50
94 / 72.2 / 69	106 / 72.2 / 69
No	250 V 1A 1CO
Note	

Ordering data

Type	Qty.	Order No.
VPU I 3+1 400V/25KA	1	1351890000
VPU I 3+1 R 400V/25KA	1	1351880000

Type	Qty.	Order No.
VPU I 1+1 400V/25KA	1	1351840000
VPU I 1+1 R 400V/25KA	1	1351830000

Type	Qty.	Order No.
VPU I 1+1 400V/25KA	1	1351840000
VPU I 1+1 R 400V/25KA	1	1351830000

Note

Note

Note

Accessories

Note

Pluggable spare arrester L-N VPU I O 280 V/25 kA-1351790000, N-PE VPU I O 440 V/100 kA-1351990000

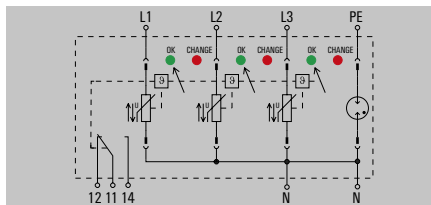
Pluggable spare arrester L-N VPU I O 280 V/25 kA-1351790000, N-PE VPU I O N-PE 440 V/100 kA-1351990000

Type I and II lightning arrester for use downstream of the electrical meter

- Suitable for protective zones III and IV (LPL III/IV)
- Pluggable arresters
- Tested according to IEC 61643-11 for Type I and II lightning and surge protection

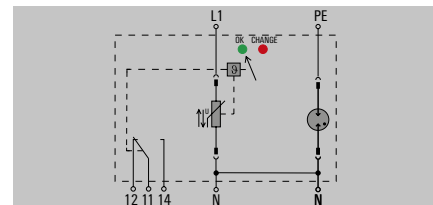
VPU I 3+1 400 V / 12.5 kA

TN-S, TT, IT



VPU I 1+1/R 400 V / 12.5 kA

1-phase



Technical data

Rated voltage (AC)
 Max. continuous voltage, U_c (AC)
 Temporary surge voltage (over-voltage) - TOV
 Requirements category acc. to IEC 61643-11
 Lightning test current I_{imp} (10/350 μs)
 Short-circuit strength with max. back-up fuse
 Short-circuit current rating I_{SCCR}
 PE conductor current I_{PE}
 Response time
 Fuse, max.
 Protection level U_p (typ.)
 Optical function display
 Design
 Colour
 Ambient temperature (operational)

Connection according to IEC 947-7-1

Solid
 Stranded
 Stripping length
 Tightening torque

Approvals

Approvals
 Standards

400 V
 400 V
 620 V
 Type I, Type II
 12.5 kA
 25 kA_{eff}
 25 kA
 30 μA
 ≤ 25 ns, ≤ 100 ns
 250 A gL
 ≤ 1.8 kV
 green = OK; red = arrester is defective - replace
 Installation housing; 4TE, Insta IP 20
 Black, Arrester red / blue
 -40 °C...70 °C

4...16 mm²
 2.5...50 mm²
 15 mm
 2...3 Nm

CE; EAC; GOSTME25
 IEC61643-11, EN61643-11

400 V
 400 V
 620 V
 Type I, Type II
 12.5 kA
 25 kA_{eff}
 25 kA
 30 μA
 ≤ 25 ns, ≤ 100 ns
 250 A gL
 ≤ 1.8 kV
 green = OK; red = arrester is defective - replace
 Installation housing; 2TE, Insta IP 20
 Black, Arrester red / blue
 -40 °C...70 °C

4...16 mm²
 2.5...50 mm²
 15 mm
 2...3 Nm

CE; EAC; GOSTME25
 IEC61643-11, EN61643-11

Dimensions / Signalling contact info

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

Note

no remote sig. contact with remote signalling (R)

16 / 4 / 50	16 / 4 / 50
94 / 71.2 / 69	106 / 71.2 / 69
No	250 V 1A 1CO

no remote sig. contact with remote signalling (R)

16 / 4 / 50	16 / 4 / 50
94 / 35.6 / 69	106 / 35.6 / 69
No	250 V 1A 1CO

Ordering data

no remote sig. contact
 with remote signalling (R)

Type	Qty.	Order No.
VPU I 3+1 400V/12,5KA	1	1352370000
VPU I 3+1 R 400V/12,5KA	1	1352380000

Type	Qty.	Order No.
VPU I 1+1 400V/12,5KA	1	1352320000
VPU I 1+1 R 400V/12,5KA	1	1352330000

Note

Accessories

Note

Pluggable spare arrester L-N VPU I 0 400 V/12.5 kA-1352280000,
 N-PE VPU I 0 N-PE 440 V/50 kA-1351980000

Pluggable spare arrester L-N VPU I 0 400 V/12.5 kA-1352280000,
 N-PE VPU I 0 N-PE 440 V/50 kA-1351980000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Type I and II lightning arrester

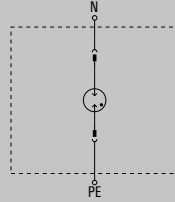
N-PE path

Suitable for 400/690 V mains systems

- Tested according to IEC 61643-11 for Type I and Type II
- Pluggable arresters
- High energy absorption with short time to sparkover
- Installation in distribution board

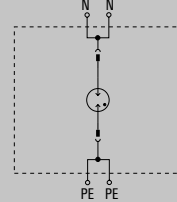
VPU I 1 N-PE 400 V / 50 kA

N-PE arrester 440 V



VPU I 1 N-PE 400 V / 100 kA

N-PE arrester 440 V



Technical data

Rated voltage (AC)	400 V
Max. continuous voltage, U _c (AC)	440 V
Temporary surge voltage (over-voltage) - TOV	1200 V
Requirements category acc. to IEC 61643-11	Type I, Type II
Lightning test current I _{imp} (10/350 μs)	50 kA
Rated load current I _L	10 μA
PE conductor current I _{PE}	≤ 100 ns
Response time	Not required
Fuse, max.	≤ 2.7 kV
Protection level U _p (typ.)	No
Optical function display	Installation housing; 1TE, Insta IP 20
Design	Black, arrester blue
Colour	-40 °C...70 °C
Ambient temperature (operational)	
Connection according to IEC 947-7-1	
Solid	4...16 mm ²
Stranded	2.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE; EAC; GOSTME25
Standards	IEC61643-11, EN61643-11

Rated voltage (AC)	400 V
Max. continuous voltage, U _c (AC)	440 V
Temporary surge voltage (over-voltage) - TOV	1200 V
Requirements category acc. to IEC 61643-11	Type I, Type II
Lightning test current I _{imp} (10/350 μs)	100 kA
Rated load current I _L	125 A
PE conductor current I _{PE}	10 μA
Response time	≤ 100 ns
Fuse, max.	Not required
Protection level U _p (typ.)	< 3000 V
Optical function display	No
Design	Installation housing; 2TE, Insta IP 20
Colour	Black, arrester blue
Ambient temperature (operational)	-40 °C...70 °C
Connection according to IEC 947-7-1	
Solid	4...16 mm ²
Stranded	2.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE; EAC; GOSTME25
Standards	IEC61643-11, EN61643-11

Rated voltage (AC)	400 V
Max. continuous voltage, U _c (AC)	440 V
Temporary surge voltage (over-voltage) - TOV	1200 V
Requirements category acc. to IEC 61643-11	Type I, Type II
Lightning test current I _{imp} (10/350 μs)	100 kA
Rated load current I _L	125 A
PE conductor current I _{PE}	10 μA
Response time	≤ 100 ns
Fuse, max.	Not required
Protection level U _p (typ.)	< 3000 V
Optical function display	No
Design	Installation housing; 2TE, Insta IP 20
Colour	Black, arrester blue
Ambient temperature (operational)	-40 °C...70 °C
Connection according to IEC 947-7-1	
Solid	4...16 mm ²
Stranded	2.5...50 mm ²
Stripping length	15 mm
Tightening torque	2...3 Nm
Approvals	
Approvals	CE; EAC; GOSTME25
Standards	IEC61643-11, EN61643-11

Dimensions / Signalling contact info

Clamping range (nominal / min. / max.)	mm ²
Height x width x depth	mm
Signalling contact	No
Note	

no remote sig. contact

Clamping range (nominal / min. / max.)	16 / 4 / 50
Height x width x depth	94 / 17.8 / 69
Signalling contact	No
Note	

no remote sig. contact

Clamping range (nominal / min. / max.)	16 / 4 / 50
Height x width x depth	94 / 35.6 / 69
Signalling contact	No
Note	

Ordering data

Type	Qty.	Order No.
VPU I 1 N-PE 440V/50KA	1	1351950000

Type	Qty.	Order No.
VPU I 1 N-PE 440V/50 kA-1351980000	1	1351980000

Type	Qty.	Order No.
VPU I 1 N-PE 440V/100KA	1	1351970000

Note

Accessories

Note	
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Note	Pluggable spare arrester VPU I 0 N-PE 440 V/50 kA-1351980000
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Note	Pluggable spare arrester VPU I 0 N-PE 440 V/100 kA-1351990000
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Technical data

Machinery



Process



Energy



Transportation



Device
Manufacturers



- Powerful and compact modular terminals
- 4 wires per level can be connected
- Wide choice of labelling options
- Testing with snap-on test adapter

ZDK 2.5-2/4

2.5 mm²



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

5.1 x 104 x 62
26 / 4
0.05...4

Technical data

Rated data	
Rated voltage	V
Rated current	A
Rated 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
Twin wire-end ferrule	-
Stripping length / Blade size	mm/-
Note	






IEC	UL	CSA	EN 60079-7
800			
22			
2.5			
		8 kV / 3	
		A2 / V-0	
Rated connection			
0.5...4 / 1.5...2.5			
0.5...2.5			
10 / 0.6 x 3.5 mm			
2.5 mm ² conductor with wire-end ferrule and plastic collar, with the collar optimised for diameter only (Order No. 1333100000 + 9004080000).			

Ordering data

Version	Blue Wemid
	Dark beige Wemid
Note	

Type	Qty.	Order No.
ZDK 2.5-2/4AN	50	1394040000
ZDK 2.5-2/4AN BL	50	1480270000

Accessories

Pluggable cross-connection	
	10-pole
	2-pole
	3-pole
	4-pole
End plate / Partition plate	
	Dark beige Wemid
End bracket	
	Dark beige Wemid
Test adapter	
	With assembly peg
Screwdriver	
	Standard
Reducing sleeves	
	For conductors < 0,5 mm ² / AWG 20
	For conductors < 1,0 mm ² / AWG 18
Cover	
	With lightning flash symbol

Type	current	Qty.	Order No.
ZQV 2.5/10	24 A	20	1608940000
ZQV 2.5/2	24 A	60	1608860000
ZQV 2.5/3	24 A	60	1608870000
ZQV 2.5/4	24 A	60	1608880000
ZAP/TW ZDK2.5-2/4AN			
		20	1394050000
ZEW 35			
		20	9540000000
ZTA ZT2.5/ZA			
		25	1847600000
SDS 0.6X3.5X100			
		1	9008330000
ZRH 1.5H/1			
		1000	1678810000
ZRH 1.5H/2			
		1000	1678800000
ZAD 1/4-2 GE			
		20	1764560000

Identification systems	(see assortment in catalogue 7)
	Marking tags
For detailed information on other accessories and applications, refer to the „Accessories“ section	

SNAPMARK I / DEK 5/5



Device
Manufacturers



Transportation



Energy



Process

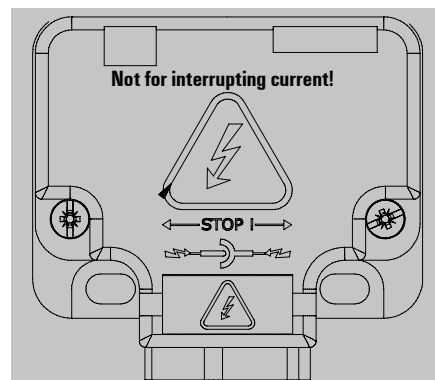
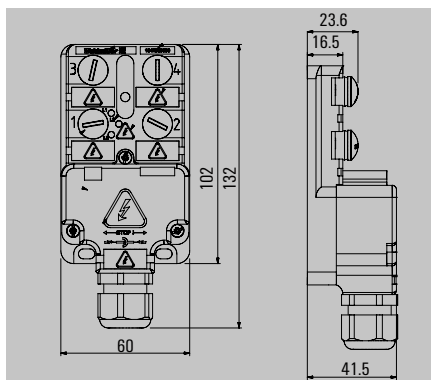
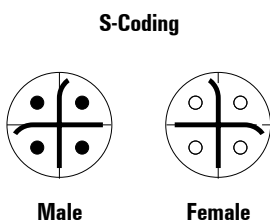


Machinery

Technical data

Hood version S-coded

SAI-4-M-MVV-M12 S-COD



Ordering data

Complete modules	4 channel
Note	

SAI-4-M-MVV-M12 S-COD

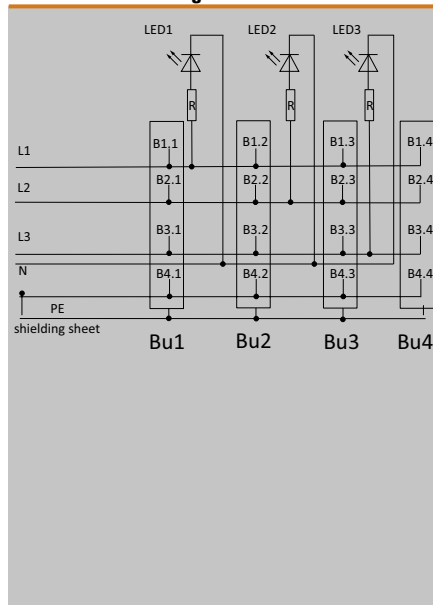
4-pole

Type	Qty.	Order No.
SAI-4-M-MVV-M12 S-COD	1	1542580000

Technical data

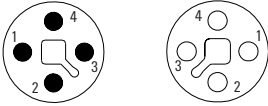
Operating voltage AC	400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP 68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm ²
Conductor O.D.	6 - 12mm

Dimensioned drawing

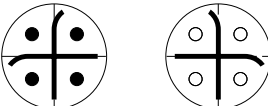


M12 customisable plug-in connectors
Screw connection

T-Coding



S-Coding



Male

Socket

Ordering data

Male	
	3-pole + PE
	4-pole
Female	
	3-pole + PE
	4-pole
Note	

Technical data

Type of connection	Screw connection
Housing main material	PA
Contact tube diameter	M12
Wire cross-section	min. 0.14 mm ² / max. 1.5 mm ²
Cable passage	PG11 8-10 mm
Rated current	12 A
Rated voltage	630 V AC voltage
Temperature range of housing	-40...+85 °C
Protection degree	IP 67 (when screwed in)
Contact surface	Au
Note	

AC plug-in connector

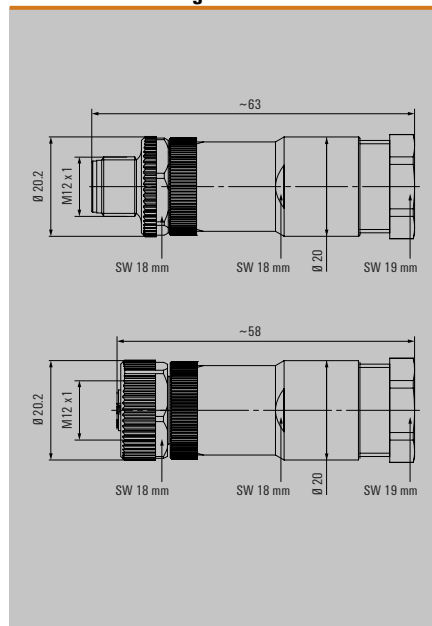
with S-Coding



Type	Qty.	Order No.
SAIS-3+PE/11-S-COD	1	1391990000
SAIB-3+PE/11-S-COD	1	1392000000
Note		

Type of connection	Screw connection
Housing main material	PA
Contact tube diameter	M12
Wire cross-section	min. 0.14 mm ² / max. 1.5 mm ²
Cable passage	PG11 8-10 mm
Rated current	12 A
Rated voltage	630 V AC voltage
Temperature range of housing	-40...+85 °C
Protection degree	IP 67 (when screwed in)
Contact surface	Au
Note	

Dimensioned drawing



DC plug-in connector

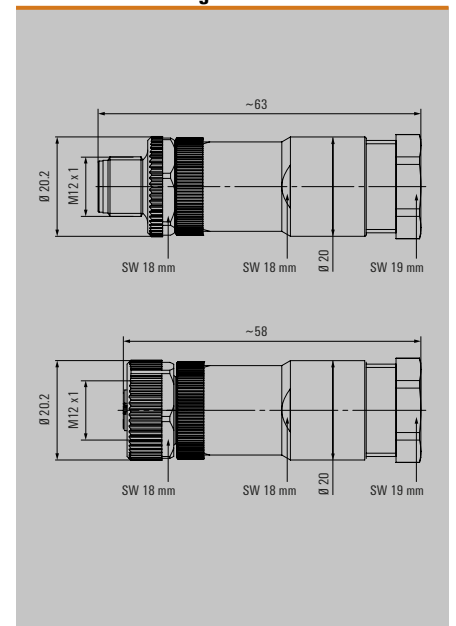
with T-Coding



Type	Qty.	Order No.
SAIS-4/11-T-COD	1	1391970000
SAIB-4/11-T-COD	1	1391980000
Note		

Type of connection	Screw connection
Housing main material	PA
Contact tube diameter	M12
Wire cross-section	min. 0.14 mm ² / max. 1.5 mm ²
Cable passage	PG11 8-10 mm
Rated current	12 A
Rated voltage	60 V DC voltage
Temperature range of housing	-40...+85 °C
Protection degree	IP 67 (when screwed in)
Contact surface	Au
Note	

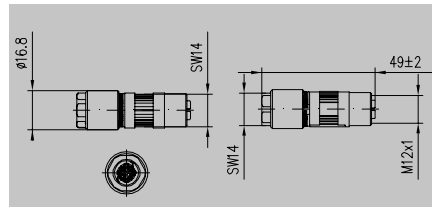
Dimensioned drawing



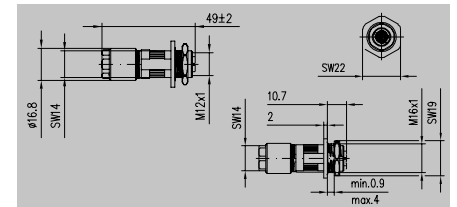
M12 plug / flange

M12 X-Type cat.6_A

Plug, female



Flange



Technical data

Category	Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
Protection degree	IP 67
Connection 1 / 2	M12 / Insulation displacement technology
Housing main material	Zinc diecast
Contact tube diameter	M12
Contact material / Contact surface	CuZn / Gold-plated
Ambient temperature (operational)	-40 °C...85 °C
Connector standard	IEC 61076-2-109
Current-carrying capacity at 50 °C	0.5 A @ 40 °C
Rated voltage	48 V
Insulation resistance	100 MΩ
Plugging cycles	≥ 100
Configuration	
Wall thickness, min. / max.	
Shielding	360° all-round enclosure
Connection diameter, flexible, min. / max.	0.48 mm / 0.76 mm
Connection cross-section, flexible, min. / max.	AWG 26 / AWG 22
Connection diameter, solid, min. / max.	0.4 mm / 0.64 mm
Connection cross-section, solid, min. / max.	AWG 24 / AWG 22
Insulation cross-section, max.	1.6 mm
Sheath diameter min. / max.	5 mm / 9.7 mm
Approvals	
Note	

Category	Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
Protection degree	IP 67
Connection 1 / 2	M12 / Insulation displacement technology
Housing main material	Zinc diecast
Contact tube diameter	M12
Contact material / Contact surface	CuZn / Gold-plated
Ambient temperature (operational)	-40 °C...85 °C
Connector standard	IEC 61076-2-109
Current-carrying capacity at 50 °C	0.5 A @ 40 °C
Rated voltage	48 V
Insulation resistance	100 MΩ
Plugging cycles	≥ 100
Configuration	
Wall thickness, min. / max.	
Shielding	360° all-round enclosure
Connection diameter, flexible, min. / max.	0.48 mm / 0.76 mm
Connection cross-section, flexible, min. / max.	AWG 26 / AWG 22
Connection diameter, solid, min. / max.	0.4 mm / 0.64 mm
Connection cross-section, solid, min. / max.	AWG 24 / AWG 22
Insulation cross-section, max.	1.6 mm
Sheath diameter min. / max.	5 mm / 9.7 mm
Approvals	
Note	

Category	Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
Protection degree	IP 67
Connection 1 / 2	M12 / Insulation displacement technology
Housing main material	Zinc diecast
Contact tube diameter	M12
Contact material / Contact surface	CuZn / Gold-plated
Ambient temperature (operational)	-40 °C...85 °C
Connector standard	IEC 61076-2-109
Current-carrying capacity at 50 °C	0.5 A @ 40 °C
Rated voltage	48 V
Insulation resistance	100 MΩ
Plugging cycles	≥ 100
Configuration	
Wall thickness, min. / max.	0.9 mm / 4 mm
Shielding	360° all-round enclosure
Connection diameter, flexible, min. / max.	0.48 mm / 0.76 mm
Connection cross-section, flexible, min. / max.	AWG 26 / AWG 22
Connection diameter, solid, min. / max.	0.4 mm / 0.64 mm
Connection cross-section, solid, min. / max.	AWG 24 / AWG 22
Insulation cross-section, max.	1.6 mm
Sheath diameter min. / max.	5 mm / 9.7 mm
Approvals	
Note	

Ordering data

Type	Qty.	Order No.
IE-PS-M12X-S-FH	1	1516330000
Note		

Type	Qty.	Order No.
IE-PS-M12X-S-FH	1	1516330000
Note		

Type	Qty.	Order No.
IE-BS-M12X-S-FH	1	1516340000
Note		

Accessories

Screwy	
Tool set	
Tool set with torque function	
Cable gland tool, M 12	
Cable gland tool with torque function, M 12	

Type	Qty.	Order No.
Screwy Set	1	1910000000
Screwy Set -DM	1	1920000000
Screwy- M12 F	1	1900020000
Screwy-M12 FDM	1	1900021000

Type	Qty.	Order No.
Screwy Set	1	1910000000
Screwy Set -DM	1	1920000000
Screwy- M12 F	1	1900020000
Screwy-M12 FDM	1	1900021000

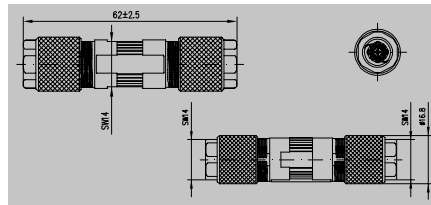
Note	
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Note	
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Note	
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Cable connector Class 7

Cable connector



Technical data

Category
 Protection degree
 Connection 1 / 2

 Housing main material
 Ambient temperature (operational)
 Current-carrying capacity at 50 °C
 Rated voltage
 Insulation resistance
 Shielding
 Connection diameter, flexible, min. / max.
 Connection cross-section, flexible, min. / max.
 Connection diameter, solid, min. / max.
 Connection cross-section, solid, min. / max.
 Insulation cross-section, max.
 Sheath diameter min. / max.
 Approvals

Class F_A (ISO/IEC11801 2011) with cat. 7_A Cable
 IP 67
 Insulation displacement technology / Insulation displacement technology
 Zinc diecast
 -40 °C...85 °C
 0.5 A @ 40 °C
 63 V
 100 MΩ
 360° all-round enclosure
 0.48 mm / 0.76 mm
 AWG 26 / AWG 22
 0.4 mm / 0.64 mm
 AWG 24 / AWG 22
 1.6 mm
 5 mm / 9.7 mm

Note

Ordering data

Type	Qty.	Order No.
IE-CC-8W-FA-IP67	1	1499940000

Note

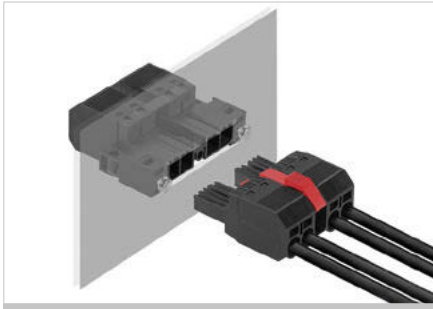
Accessories

Type	Qty.	Order No.

Note



SVF 7.62HP/180



180° inverted pin header featuring PUSH IN connection technology for field wiring in 6 mm² with a 7.62 pitch as a "three-flange variant" for enclosure feed-throughs. Suitable for enclosures with a max. wall thickness of 2 mm. Also a perfect finger-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R	mm ²	6 ² ...10	
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
		According to norm DIN 5264	
Tightening torque range			
Rated current, max.		41	41
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

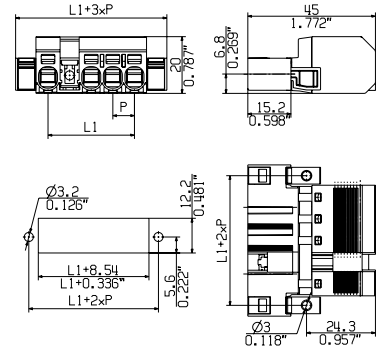
Note:

- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SVF 7.62HP/180SFMF2



Dimensioned drawing



Accessories

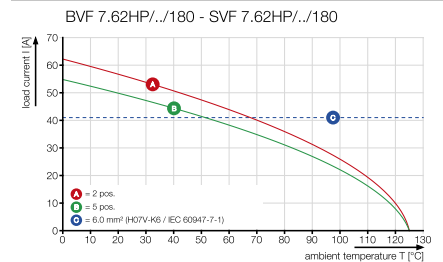
Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.5X125	9009020000
Crimping tool	
PZ 6/5	9011460000
Coupling set	
SVF/BVF 7.62HP COUPLE SET	1440850000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	40	1427220000
3	22.86	0.900	30	1427230000
4	30.48	1.200	25	1427250000

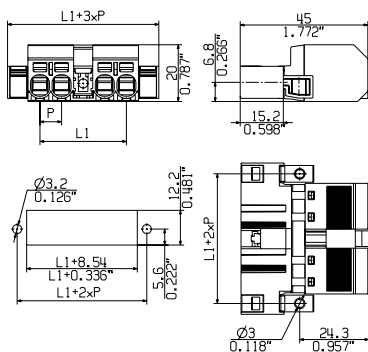
Representative deratings curve



SVF 7.62HP/180SFMF3



Dimensioned drawing



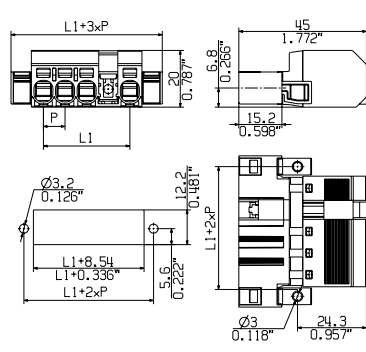
Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	30	1427240000
4	30.48	1.200	25	1427260000

SVF 7.62HP/180SFMF4



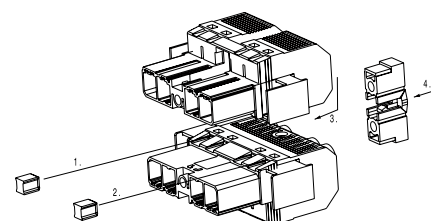
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	25	1427270000

SVF/BCF 7.62HP COUPLE SET



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Technical data

Machinery

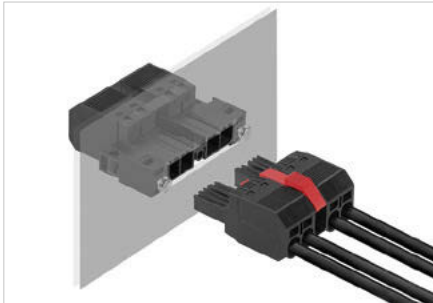
Process

Energy

Transportation

Device Manufacturers

SVF 7.62HP/180



180° inverted pin header featuring PUSH IN connection technology for field wiring in 6mm² with a 7.62 pitch as a "three-flange variant" for enclosure feed-throughs. Suitable for enclosures with a max. wall thickness of 16 mm. Also a perfect finger-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R		6 ² ...10	
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
		According to norm DIN 5264	
Tightening torque range			
Rated current, max.		41	41
At ambient temperature	20°C		40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG		24-10
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG		24-10
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 35 A / AWG 24 - 10



For additional articles and information, refer to catalog.weidmuller.com

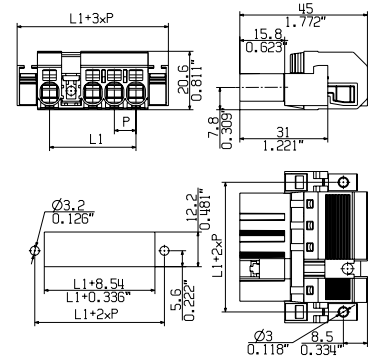
Note:

- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

SVF 7.62HP/180SFBMF2



Dimensioned drawing



Ordering data

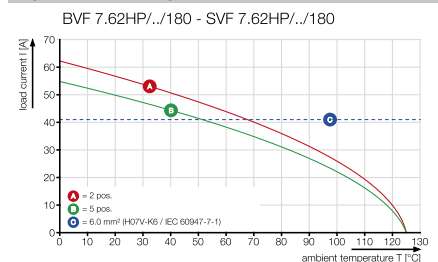
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	40	1429920000
3	22.86	0.900	30	1429930000
4	30.48	1.200	25	1429950000

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8x4.5x125	9009020000
Crimping tool		
	PZ 6/5	9011460000
Coupling set		
	SVF/BVF 7.62HP COUPLE SET	1440850000

Representative deratings curve



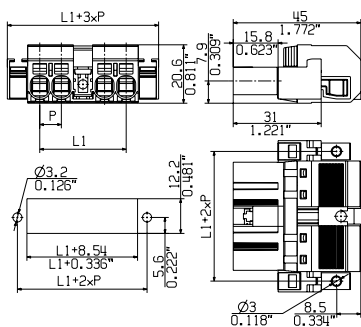
SVF 7.62HP/180SFBMF3

SVF 7.62HP/180SFBMF4

SVF/BCF 7.62HP COUPLE SET



Dimensioned drawing

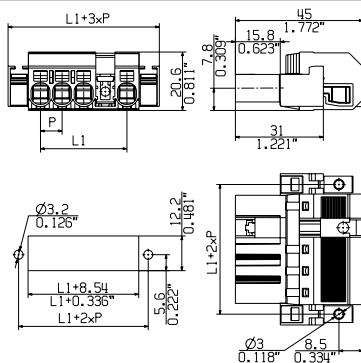


Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	30	1429940000
4	30.48	1.200	25	1429960000

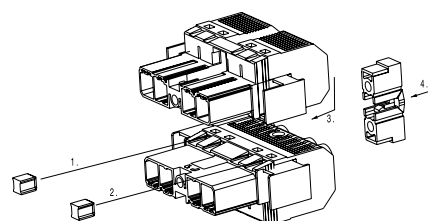


Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	25	1429970000



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

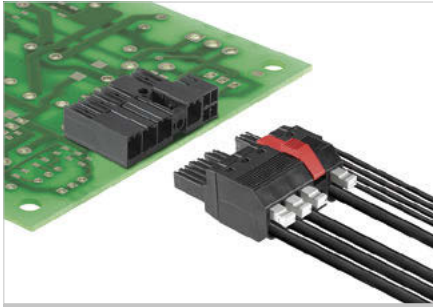
Process

Energy

Transportation

Device Manufacturers

BVFL 7.62HP/./180 & BCF 3.81



Hybrid female connector with power and signal contacts and adjustable actuator (pusher) featuring PUSH IN spring connection technology. Enables simultaneous connection of power, signals and shielding. Ideal for connecting servo and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement guarantees more than 3 mm of touch-safety in accordance with IEC 61800-5-1. The snap-on middle flange decreases the space required by one pitch width.

The pluggable shield connection has a wide contact area on the device housing and does not have to be bolted on separately.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
		According to norm	
Tightening torque range			
Rated current, max.	A	38	34
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	II
Pollution severity		3	2
Rated voltage	V	800	1000
Rated impulse voltage	kV	8	6
UL / CUL (Use Group)		B	C
Rated voltage	V	600	600
Rated current	A	33	5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C
Rated voltage	V	600	600
Rated current	A	33	5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
 UL: 600 V / 33 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

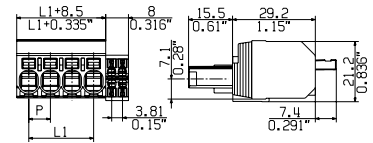
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- Additional poles on request

BVFL 7.62HP/./180 BCF/..R



Dimensioned drawing



Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	40	1547560000

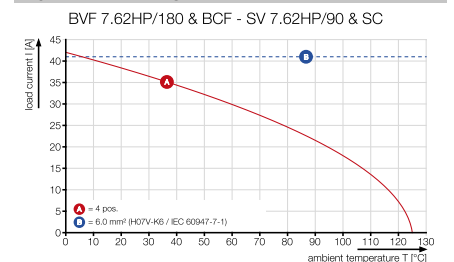
Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BV/SV 7.62HP K0	1937590000
Shielding	
BVF 7.62HP SH150 4-6 KIT	1118480000
BVF 7.62HP SH180 4-6 KIT	1118470000
BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver	
SDS 0.8X4.5X125	9009020000
Crimping tool	
PZ 6/5	9011460000

Additional pole combinations on request

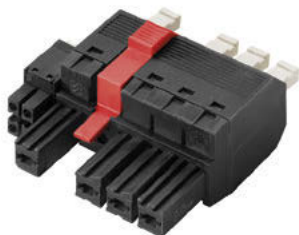
Representative deratings curve



Additional pole combinations on request

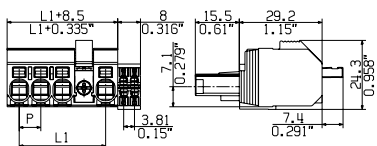
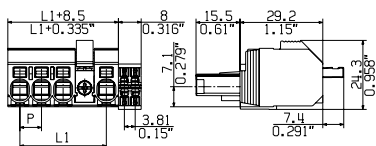
BVFL 7.62HP../180MF4 BCF3.81../R

BVFL 7.62HP../180MSF4 BCF3.81../R



Dimensioned drawing

Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	40	1547590000

Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	40	1547600000

Additional pole combinations on request

Additional pole combinations on request

Technical data

Machinery



Process



Energy



Transportation



Device Manufacturers



Technical data

Machinery

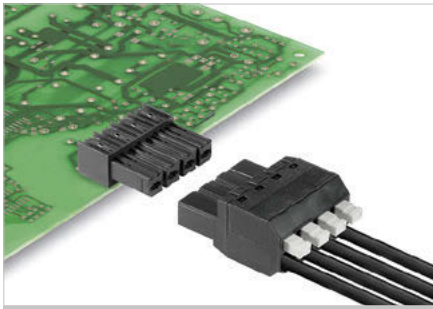
Process

Energy

Transportation

Device Manufacturers

SVFL 7.62HP../180



Pin connector with 180° outlet direction and adjustable actuator (pusher) featuring PUSH IN spring connection technology for TNC(S) networks. Also perfect as a finger-safe solution for reverse voltage. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures a finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or wrong wiring, and unique coding diversity.

Variants: middle flange and middle screw flange mountings.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 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 with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- Additional poles on request
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R		6 ² ...10	
Flexible H05(07) V-K	mm ²	0.5...6	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
		According to norm DIN 5264	
Tightening torque range			
Rated current, max.		41	41
At ambient temperature	20°C	40°C	40°C
For conductor cross-section			
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35 5
AWG conductor	AWG	24-10	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	35	35
AWG conductor	AWG	24-10	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

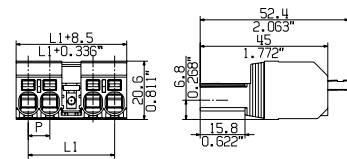
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP K0	1937590000
Screwdriver		
	SDS 0.8X4.5X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

SVFL 7.62HP../180G



Dimensioned drawing

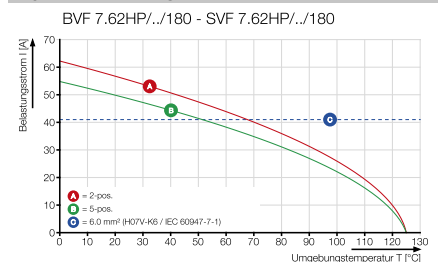


Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	45	1547550000

Additional pole combinations on request

Representative deratings curve

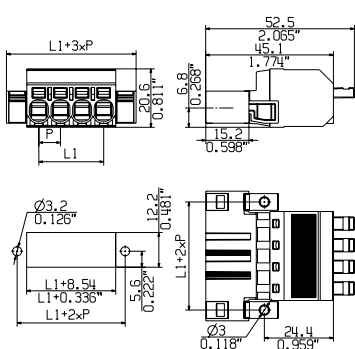


Additional pole combinations on request

SVFL 7.62HP../180F



Dimensioned drawing



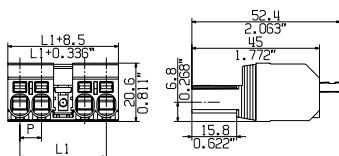
Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	45	1547570000

SVFL 7.62HP../180MF3



Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	45	1547580000

Additional pole combinations on request

Additional pole combinations on request

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

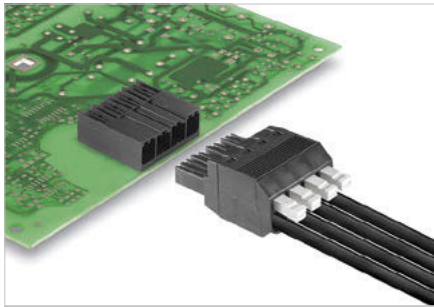
Process

Energy

Transportation

Device Manufacturers

BVFL 7.62HP../180



Female plug with 180° outlet direction and adjustable actuator (pusher) incorporating PUSH IN spring connection technology for TNC(S) networks. Meets the requirements of UL1059 for 600 V Use Group C. The pin arrangement ensures a finger-safety of >3 mm in accordance with IEC 61800-5-1.

Maximum connection and operating reliability thanks to: derating up to 125°C, pin arrangement that prevents wrong connections or wrong wiring, and unique coding diversity.

Variants: flange, screw flange, middle flange and middle screw flange mount.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.5...10	
Solid core H05(07) V-U	mm²	0.5...10	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.5...10	
Flexible with ferrule	mm ²	1.5...6	
Ferrule with plastic collar	mm ²	1.5...6	
Stripping length	mm	12	
Screwdriver blade	mm	0.8 x 4.5	
		According to norm DIN 5264	
Tightening torque range			
Rated current, max.	A	41	41
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	6	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	800	1000 1000
Rated impulse voltage	kV	8	8 6
UL / CUL (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
CSA (Use Group)		B	C D
Rated voltage	V	600	600 600
Rated current	A	33	33 5
AWG conductor	AWG	24-8	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
 UL: 600 V / 33 A / AWG 24 - 8



For additional articles and information, refer to catalog.weidmueller.com

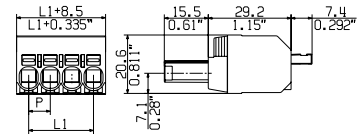
Note:

- Additional colours on request
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- Additional poles on request

BVFL 7.62HP../180



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

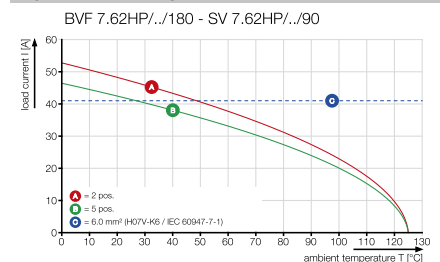
Coding	Order No.
BV/SV 7.62HP K0	1937590000
Screwdriver	
SDS 0.8X4.5X125	9009020000
Crimping tool	
PZ 6/5	9011460000
Coupling set	
SVF/BVF 7.62HP COUPLE SET	1440850000

Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	45	1547520000

Additional pole combinations on request

Representative deratings curve

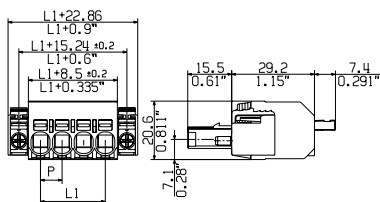


Additional pole combinations on request

BVFL 7.62HP../180F



Dimensioned drawing



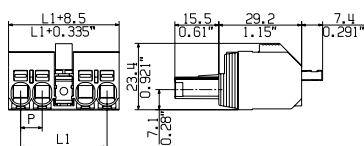
Ordering data

Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	22.86	0.900	45	1547530000

BVFL 7.62HP../180MF3



Dimensioned drawing

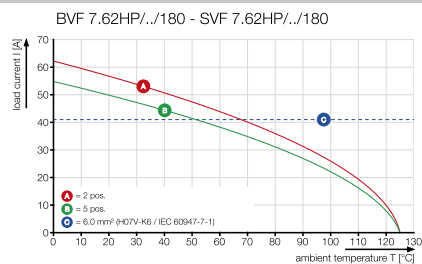
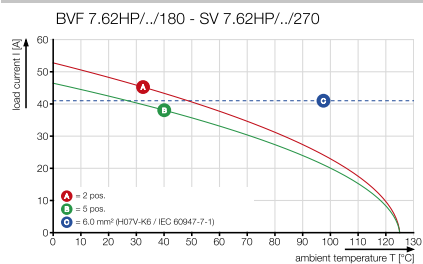


Ordering data

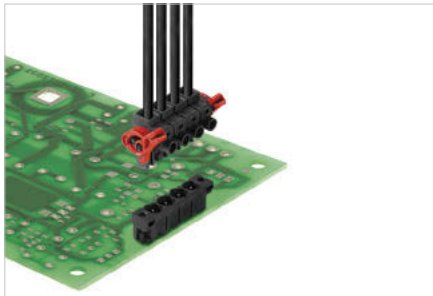
Solder pin length				
Colour	Black			
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	45	1547540000

Additional pole combinations on request

Additional pole combinations on request



SL 7.62HP/270



Male header in 270° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL 508 / UL 840 and the increased need for touch-safe protection according to IEC 68100-5-1 for electrical drive systems.

- Available with screw flange (F) and a solder flange (SF).

Product data

IEC: 630 V / 27.5 A
UL: 300 V / 20 A



For additional articles and information, refer to catalog.weidmuller.com

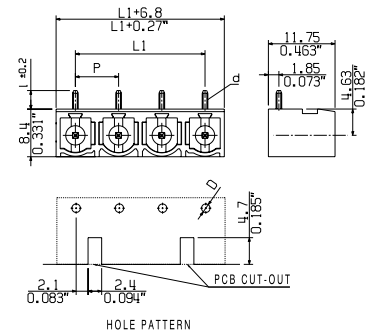
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- 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.

SL 7.62HP/270G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.			
Solid core H05(07) V-U			
Stranded H07 V-R			
Flexible H05(07) V-K			
Flexible with ferrule			
Ferrule with plastic collar			
Stripping length			
Screwdriver blade	mm		
According to norm			
Tightening torque range			
Rated current, max.	A	27.5	25
At ambient temperature		20°C	40°C
For conductor cross-section			
Overtoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	400	500 630
Rated impulse voltage	kV	4	6 6
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG	-	
CSA (Use Group)	B C D		
Rated voltage	V	300	300 600
Rated current	A	20	20 5
AWG conductor	AWG	-	
General data			
Type of insulation material		PA GF	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface			
Pin dimensions = d	mm	1.0 x 1.0	
Solder eyelet Ø = D	mm	1.3	
Solder eyelet Ø tolerance	mm	+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO OR BX	1573010000
BLZ/SL KO BK BX	1545710000

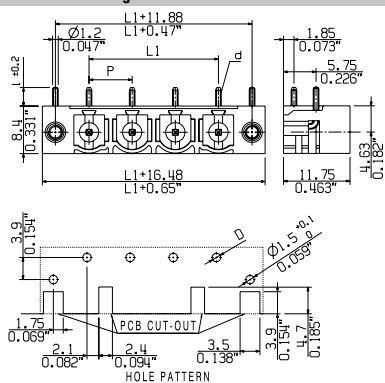
Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1472240000
3	15.24	0.600	100	1472250000
4	22.86	0.900	100	1472260000
5	30.48	1.200	50	1472270000
6	38.10	1.500	50	1472280000
7	45.72	1.800	50	1472290000
8	53.34	2.100	50	1472310000
9	60.96	2.400	50	1472320000
10	68.58	2.700	50	1472330000
11	76.20	3.000	50	1472340000
12	83.82	3.300	50	1472350000

SL 7.62HP/270LF



Dimensioned drawing



Ordering data

Solder pin length		3.2 mm		
Colour		Black		
Pitch		7.62 mm		
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1472360000
3	15.24	0.600	100	1472370000
4	22.86	0.900	100	1472380000
5	30.48	1.200	50	1472390000
6	38.10	1.500	50	1472410000
7	45.72	1.800	50	1472420000
8	53.34	2.100	50	1472430000
9	60.96	2.400	50	1472440000
10	68.58	2.700	50	1472450000
11	76.20	3.000	50	1472460000
12	83.62	3.300	50	1472470000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

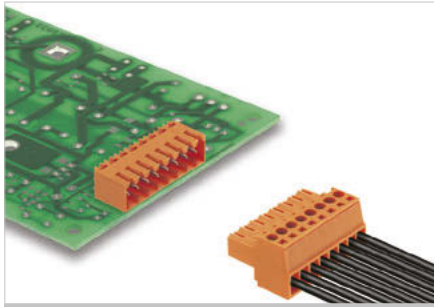
Process

Energy

Transportation

Device Manufacturers

BL 3.50/././180



Female plug with clamping-yoke screw system for connecting wires with straight outlet direction in 3.5 mm pitch. Available with a screw flange (F), release lever (LH) or lock and release lever (LR). They include space for labelling and can be coded.

Product data

IEC: 320 V / 17 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14



For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- 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.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.08...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	6	
Screwdriver blade	mm		
According to norm		DIN 5264	
Tightening torque range	Nm	0.2...0.25	
Rated current, max.	A	17	14.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160	160 320
Rated impulse voltage	kV	2.5	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-14	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	28-14	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

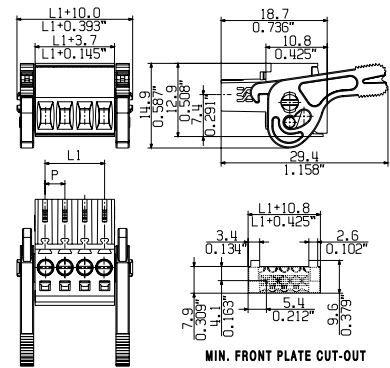
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Cover hood		
	BL 3.50 AH03 BK BX	1745580000
	BL 3.50 AH04 BK BX	1745590000
	BL 3.50 AH05 BK BX	1745600000
	BL 3.50 AH06 BK BX	1745610000
	BL 3.50 AH07 BK BX	1745620000
	BL 3.50 AH08 BK BX	1745630000
	BL 3.50 AH09 BK BX	1745640000
	BL 3.50 AH10 BK BX	1745650000
	BL 3.50 AH11 BK BX	1745660000
	BL 3.50 AH12 BK BX	1745670000
	BL 3.50 AH13 BK BX	1745680000
	BL 3.50 AH14 BK BX	1745690000
	BL 3.50 AH15 BK BX	1745700000
	BL 3.50 AH16 BK BX	1745710000
Strain relief		
	BL 3.50 ZE03 OR BX	1629680000
	BL 3.50 ZE03 BK BX	1627820000
	BL 3.50 ZE08 OR BX	1629690000
Interlock		
	BL/SL 3.50 VR OR BX	1669310000
	BL/SL 3.50 VR BK BX	1669300000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
	SDIS 0.4X2.5X75	9008370000

BL 3.50/././180LR

with lock and release lever



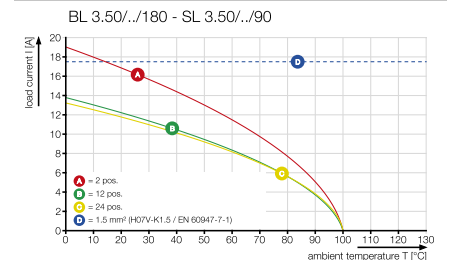
Dimensioned drawing



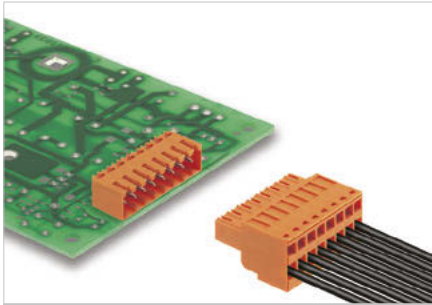
Ordering data

Solder pin length				
Colour	Orange			
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1530990000
3	7.00	0.276	100	1531000000
4	10.50	0.413	100	1531010000
5	14.00	0.551	50	1531020000
6	17.50	0.689	50	1531030000
7	21.00	0.827	50	1531040000
8	24.50	0.965	50	1531050000
9	28.00	1.102	50	1531070000
10	31.50	1.240	50	1531080000
11	35.00	1.378	50	1531090000
12	38.50	1.516	50	1531100000
13	42.00	1.654	50	1531110000
14	45.50	1.791	50	1531120000
15	49.00	1.929	50	1531130000
16	52.50	2.067	50	1531140000

Representative deratings curve



BLZF 3.50/././180



Female plug with tension-clamp wire connection in 3.5 mm pitch. Available with a screw flange (F), release lever (LH) or lock and release lever (LR). They include space for labelling and can be coded.

Product data

IEC: 320 V / 14.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A



For additional articles and information, refer to catalog.weidmueller.com

Note:

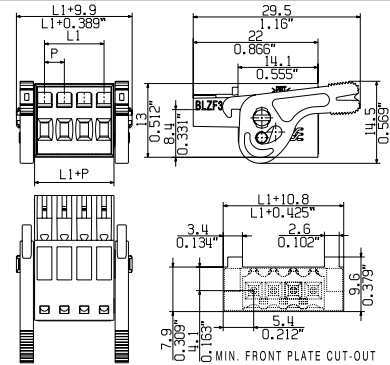
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- P on drawing = pitch
- Crimp 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.

BLZF 3.50/././180LR

with lock and release lever



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...1.5	
Solid core H05(07) V-U	mm ²	0.2...1.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1	
Stripping length	mm	10	
Screwdriver blade	mm		
According to norm			DIN 5264-A
Tightening torque range			
Rated current, max.	A	14.5	12
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	160 160 320	
Rated impulse voltage	kV	2.5 2.5 2.5	
UL / CUL (Use Group)		B C D	
Rated voltage	V	300	
Rated current	A	10	
AWG conductor	AWG	-	
CSA (Use Group)		B C D	
Rated voltage	V	300	
Rated current	A	10	
AWG conductor	AWG	-	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

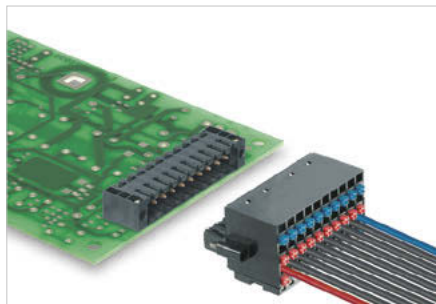
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Strain relief		
	BL 3.50 ZE03 OR BX	1629680000
	BL 3.50 ZE03 BK BX	1627820000
	BL 3.50 ZE08 OR BX	1629690000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 6/5	9011460000
	PZ 1.5	9005990000

Ordering data

Solder pin length				
Colour	Orange			
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1531210000
3	7.00	0.276	100	1531220000
4	10.50	0.413	100	1531230000
5	14.00	0.551	50	1531250000
6	17.50	0.689	50	1531270000
7	21.00	0.827	50	1531290000
8	24.50	0.965	50	1531300000
9	28.00	1.102	50	1531310000
10	31.50	1.240	50	1531320000
11	35.00	1.378	50	1531330000
12	38.50	1.516	50	1531340000
13	42.00	1.654	50	1531350000
14	45.50	1.791	50	1531360000
15	49.00	1.929	50	1531370000
16	52.50	2.067	50	1531380000

BL-I/O 3.5/././180



Female plug provides pluggable connection level for decentralized I/O electronics. It is used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock and release lever (LR).

Product data

IEC: 200 V / 2.2 A / 0.2 - 1 mm²
 UL: 50 V / 5 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

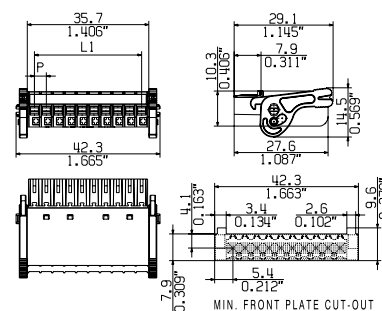
- Additional colours on request
- P on drawing = pitch
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- 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.

BL-I/O 3.50/10/180LR

with lock and release lever



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...1.5	
Solid core H05(07) V-U	mm²	0.2...1	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1	
Ferrule with plastic collar	mm ²	0.2...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm		DIN 5264	
Tightening torque range			
Rated current, max.	A	2.2	2.2
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	50	160 200
Rated impulse voltage	kV	0.8	2.5 2.5
UL / CUL (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
	SDIS 0.4X2.5X75	9008370000
Crimping tool		
	PZ 6/5	9011460000
	PZ 1.5	9005990000

Ordering data

Solder pin length				
Colour				Black
Pitch				
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1531180000

Compatible with SL-SMT 3.50/././90RF

Technical data

Machinery

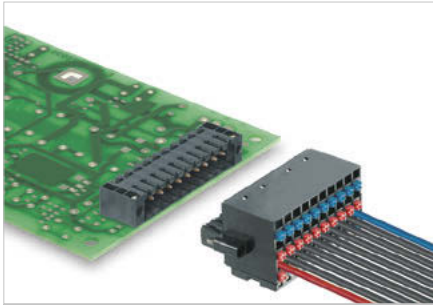
Process

Energy

Transportation

Device Manufacturers

BL-I/O 3.50/./180 PNP LED



Female plug provides pluggable connection level with common minus (PNP sensor) for decentralized I/O electronics with integrated LED display; used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock an release lever (LR).

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.2...1.5	
Solid core H05(07) V-U	mm²	0.2...1	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1	
Ferrule with plastic collar	mm ²	0.2...0.75	
Stripping length	mm	8	
Screwdriver blade	mm		
According to norm			
Tightening torque range		DIN 5264	
Rated current, max.	A	2.2	2.2
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	1	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage		50	
Rated impulse voltage		0.8	
UL / CUL (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	24-16	
CSA (Use Group)		B	C D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: / 2.2 A / 0.2 - 1 mm²
 UL: 50 V / 5 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

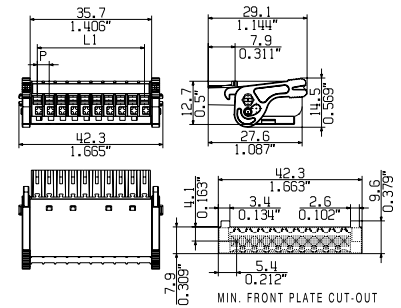
- Additional colours on request
- P on drawing = pitch
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- 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.
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V

BL-I/O 3.50/10/180LR PNP LED

with lock and release lever



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

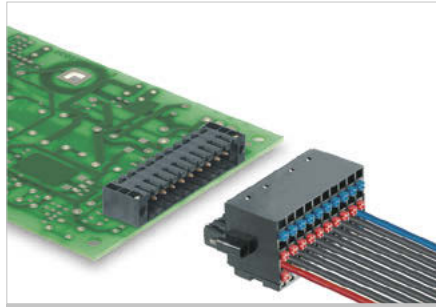
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
	SDIS 0.4X2.5X75	9008370000
Crimping tool		
	PZ 6/5	9011460000
	PZ 1.5	9005990000

Ordering data

Solder pin length				
Colour	Black			
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1531190000

LED series resistors designed for 24 V; Compatible with SL-SMT 3.50/./90RF

BL-I/O 3.50/./180 NPN LED



Female plug provides pluggable connection level with common positive (NPN sensor) for decentralized I/O electronics with integrated LED display; used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock an release lever (LR).

Product data

IEC: / 2.2 A / 0.2 - 1 mm²
UL: 50 V / 5 A / AWG 24 - 16



For additional articles and information, refer to catalog.weidmueller.com

Note:

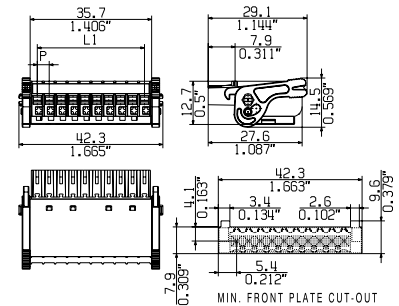
- Additional colours on request
- P on drawing = pitch
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- 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.
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V

BL-I/O 3.50/10/180LR NPN LED

with lock and release lever



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

Clamping range, max.	mm ²	0.2...1.5
Solid core H05(07) V-U	mm²	0.2...1
Stranded H07 V-R		
Flexible H05(07) V-K	mm ²	0.2...1.5
Flexible with ferrule	mm ²	0.2...1
Ferrule with plastic collar	mm ²	0.2...0.75
Stripping length	mm	8
Screwdriver blade	mm	

According to norm




Tightening torque range		
Rated current, max.	A	2.2
At ambient temperature		20°C
		40°C
For conductor cross-section	mm ²	1
Overvoltage category		III III II
Pollution severity		3 2 2
Rated voltage		50
Rated impulse voltage		0.8

UL / CUL (Use Group)	B	C	D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	24-16	
CSA (Use Group)	B	C	D
Rated voltage	V	50	50
Rated current	A	5	5
AWG conductor	AWG	22-16	

General data	
Type of insulation material	PBT
UL 94 flammability rating	V-0
Contact base material	Cu-Leg
Material of contact surface	tinned
Pin dimensions = d	mm
Solder eyelet Ø = D	mm
Solder eyelet Ø tolerance	mm

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
	SDIS 0.4X2.5X75	9008370000
Crimping tool		
	PZ 6/5	9011460000
	PZ 1.5	9005990000

Ordering data

Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1531200000

LED series resistors designed for 24 V; Compatible with SL-SMT 3.50/./90RF



**Device
Manufacturers**



Transportation



Energy







Process

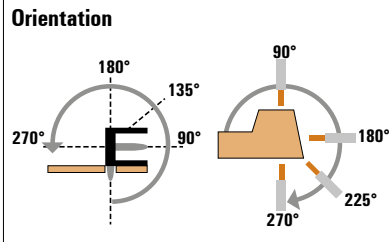
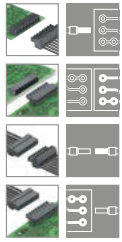


Machinery

Technical data

<http://www.OMNIMATE.net>

-  = Wire-to-Board
-  = Board-to-Board
-  = Wire-to-Wire
-  = Board-to-Wire



Male header




















Reflow solder connection



BL/SL 5.00 series



Type	Orientation		SL-SMT HC	SL-SMT HC		
	Flange options		(O)/G/LF	(O)/G/LF		
	IEC / UL		IEC: 400 V/27.5 A UL: 300 V/15 A	IEC: 400 V/27.5 A UL: 300 V/15 A		
Female plug  Screw: Clamping yoke  Spring: PUSH IN		BLZP HC 180° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12			
		BLZP HC 90° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12			
		BLZP HC 270° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12			
		BLF HC 180° (G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm ² UL: 300 V/18.5 A/AWG 26 - 12			
		BLF HC 90° (G)/F/LR	IEC: 400 V/24 A/ 0.2 - 2.5 mm ² UL: 300 V/18.5 A/ AWG 26 - 12			

Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LR = Lock & Release lever
HC = High current

* not included in the article description

Male header and plug:
(O)* = open
B = Dovetail for fixing blocks with a nut
G = closed
F = Screw flange with nut
LF = Solder flange with nut
GLF = closed with additional solder flange
FLF = Flange with nut and additional solder flange
HC = High current

Male header



Reflow solder connection



	SL-SMaT HC	SL-SMaT HC
	90°	180°
	(0)	(0)
	IEC: 400 V/27.5 A UL: 300 V/15 A	IEC: 400 V/27.5 A UL: 300 V/15 A
	○	○
	○	○
	○	○
	○	○
	○	○

Technical data

Machinery



Process



Energy



Transportation

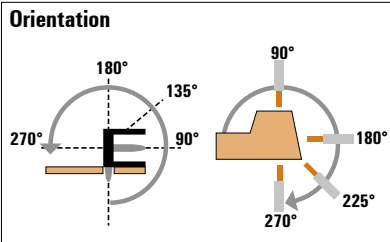
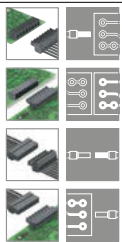


Device Manufacturers



<http://www.OMNIMATE.net>

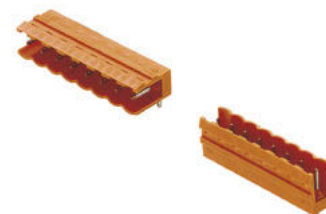
- = Wire-to-Board
- = Board-to-Board
- = Wire-to-Wire
- = Board-to-Wire



Male header



Solder connection



BL/SL 5.08 series



Type	SL HC	SL HC
Orientation	90°	180°
Flange options	(O)/G/B/F/LF	(O)/G/B/F/LF
IEC / UL	IEC: 400 V/24 A UL: 300 V/18.5 A	IEC: 400 V/24 A UL: 300 V/18.5 A

Female plug	Clamping yoke	Type			SL HC	SL HC	
		Orientation	Flange options	IEC / UL	90°	180°	
Clamping yoke		BLZP HC	180° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12	○	○	
		BLZP HC	90° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12	○	○	
		BLZP HC	270° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12	○	○	
		BLZP HC	225° (G)/F/LR	IEC: 400 V/23 A/0.2 - 4 mm ² UL: 300 V/20 A/AWG 26 - 12	○	○	
Female plug	TOP		BLT HC	180° (G)/F/LR/DF	IEC: 400 V/27.5 A/0.2 - 2.5 mm ² UL: 300 V/17 A/AWG 26 - 14	○	○
	PUSH IN		BLF HC	180° (G)/F/LR/DF	IEC: 400 V/24 A/0.2 - 2.5 mm ² UL: 300 V/18.5 A/AWG 26 - 12	○	○
			BLF HC	90° (G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm ² UL: 300 V/18.5 A/AWG 26 - 12	○	○
			BLF HC	270° (G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm ² UL: 300 V/18.5 A/AWG 26 - 12	○	○

Female plug and header:

- (G)* = Closed (without flange)
- F = Flange with screw
- DF = Implementation

- LR = Lock & Release lever
- B = Dovetail for fixing blocks with a nut
- FI = Inverted flange with nut

- HC = High current
- * not included in the article description



	SL-SMT HC	SL-SMT HC	SL-SMT HC	SL-SMaT HC	SL-SMaT HC
	90°	180°	270°	90°	180°
	(O)/G/F/LF	(O)/G/F/LF	G/LF	(O)	(O)
	IEC: 400 V/27.5 A UL: 300 V/15 A	IEC: 400 V/27.5 A UL: 300 V/15 A	IEC: 400 V/27.5 A UL: 300 V/15 A	IEC: 400 V/27.5 A UL: 300 V/15 A	IEC: 400 V/27.5 A UL: 300 V/15 A
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○

Male header and plug:

- (O)* = open
- B = Dovetail for fixing blocks with a nut
- G = closed

- F = Screw flange with nut
- LF = Solder flange with nut
- DF = Implementation

HC = High current
* not included in the article description

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

BLZP 5.00HC../180



The BLZP is the functional extension of the BLZ series. The "P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY - delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...4	
Solid core H05(07) V-U	mm²	0.2...4	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...4	
Flexible with ferrule	mm ²	0.2...4	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0	
According to norm		DIN 5264	
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	23	21
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	4	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4 4 4	
UL / CUL (Use Group)	B C D	B C D	
Rated voltage	V	300	300
Rated current	A	20	10
AWG conductor	AWG	30-12	
CSA (Use Group)	B C D	B C D	
Rated voltage	V	300	50 300
Rated current	A	20	20
AWG conductor	AWG	30-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 23 A / 0.2 - 4 mm²
UL: 300 V / 20 A / AWG 30 - 12



For additional articles and information, refer to catalog.weidmueller.com

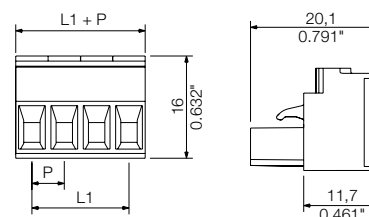
Note:

- Additional colours on request
- Gold-plated contact surfaces 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.

BLZP 5.00HC../180



Dimensioned drawing



Accessories

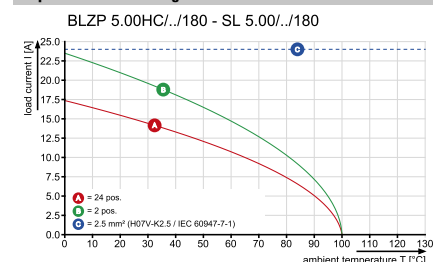
Note: Refer to the Accessories chapter for additional accessories.

Strain relief	Order No.
BLZ 5.00 ZE04 OR BX	1652100000
BLZ 5.00 ZE08 BK BX	1652060000
BLZ 5.00 ZE08 OR BX	1652040000
Coding	Order No.
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	Order No.
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000
Crosshead screwdriver	Order No.
SDK PH1	9008480000
SDK PZ1	9008530000

Ordering data

Solder pin length		Orange	Black
Colour	Pitch	Order No.	Order No.
	5.00 mm		
Pol.	L1 (inch)	Qty.	Order No.
2	5.00	100	1954490000
3	10.00	100	1954480000
4	15.00	100	1954470000
5	20.00	45	1954460000
6	25.00	45	1954450000
7	30.00	45	1954440000
8	35.00	45	1954430000
9	40.00	45	1954420000
10	45.00	45	1954410000
11	50.00	36	1954400000
12	55.00	36	1954390000
13	60.00	36	1954380000
14	65.00	27	1954370000
15	70.00	27	1954360000
16	75.00	27	1954350000
17	80.00	18	1954330000
18	85.00	18	1954320000
19	90.00	18	1954310000
20	95.00	18	1954300000
21	100.00	18	1954290000
22	105.00	18	1954280000
23	110.00	18	1954270000
24	115.00	18	1954260000

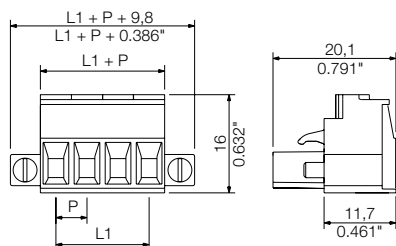
Representative deratings curve



BLZP 5.00HC../180F



Dimensioned drawing



Ordering data

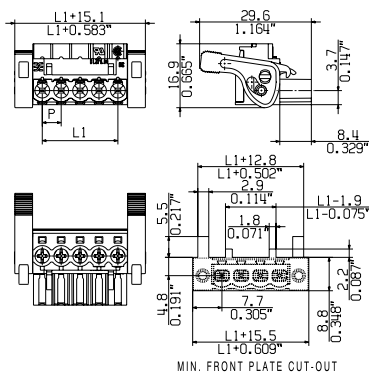
Solder pin length					
Colour		Orange	Black		
Pitch	5.00 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.00	0.197	90	1955800000	1956030000
3	10.00	0.394	72	1955790000	1956020000
4	15.00	0.591	60	1955780000	1956010000
5	20.00	0.787	48	1955770000	1956000000
6	25.00	0.984	42	1955760000	1955990000
7	30.00	1.181	36	1955750000	1955980000
8	35.00	1.378	36	1955740000	1955970000
9	40.00	1.575	30	1955730000	1955960000
10	45.00	1.772	30	1955720000	1955950000
11	50.00	1.969	24	1955710000	1955940000
12	55.00	2.165	24	1955700000	1955930000
13	60.00	2.362	24	1955690000	1955920000
14	65.00	2.559	18	1955680000	1955910000
15	70.00	2.756	18	1955670000	1955900000
16	75.00	2.953	18	1955660000	1955890000
17	80.00	3.150	18	1955650000	1955880000
18	85.00	3.346	18	1955640000	1955870000
19	90.00	3.543	12	1955630000	1955860000
20	95.00	3.740	12	1955620000	1955850000
21	100.00	3.937	12	1955610000	1955840000
22	105.00	4.134	12	1955600000	1955830000
23	110.00	4.331	12	1955590000	1955820000
24	115.00	4.528	12	1955580000	1955810000

BLZP 5.00HC../180LR

with lock and release lever



Dimensioned drawing



Ordering data

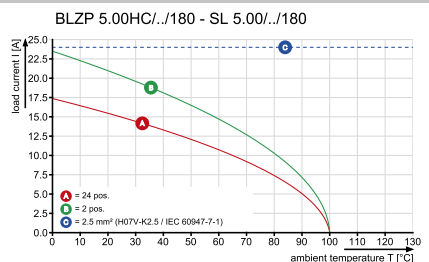
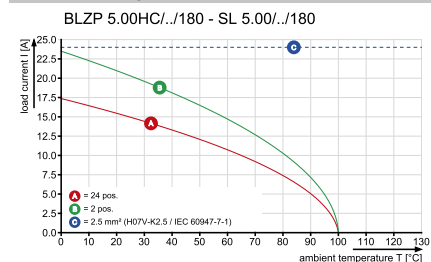
Solder pin length					
Colour		Orange	Black		
Pitch	5.00 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.00	0.197	90	1956370000	1956600000
3	10.00	0.394	72	1956360000	1956590000
4	15.00	0.591	60	1956350000	1956580000
5	20.00	0.787	48	1956340000	1956570000
6	25.00	0.984	42	1956330000	1956560000
7	30.00	1.181	36	1956320000	1956550000
8	35.00	1.378	36	1956310000	1956540000
9	40.00	1.575	30	1956300000	1956530000
10	45.00	1.772	30	1956290000	1956520000
11	50.00	1.969	24	1956280000	1956510000
12	55.00	2.165	24	1956270000	1956500000
13	60.00	2.362	24	1956260000	1956490000
14	65.00	2.559	18	1956250000	1956480000
15	70.00	2.756	18	1956240000	1956470000
16	75.00	2.953	18	1956230000	1956460000
17	80.00	3.150	18	1956220000	1956450000
18	85.00	3.346	18	1956210000	1956440000
19	90.00	3.543	12	1956200000	1956430000
20	95.00	3.740	12	1956190000	1956420000
21	100.00	3.937	12	1956180000	1956410000
22	105.00	4.134	12	1956170000	1956400000
23	110.00	4.331	12	1956160000	1956390000
24	115.00	4.528	12	1956150000	1956380000



The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level. Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.

Additional deratings curves



Technical data

Machinery

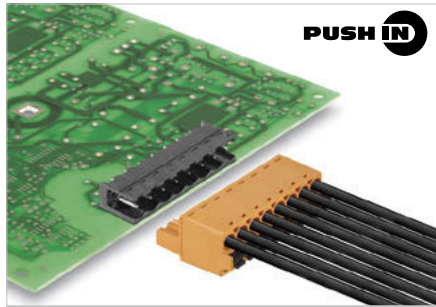
Process

Energy

Transportation

Device Manufacturers

BLF 5.00HC../180



“PUSH IN” - Weidmüller’s innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...3.31	
Solid core H05(07) V-U	mm ²	0.2...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...2.5	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm	
Tightening torque range	Nm		
Rated current, max.	A	20.5	17.5
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 20.5 A / 0.2 - 2.5 mm²
 UL: 300 V / 10 A / AWG 12 - 26



For additional articles and information, refer to catalog.weidmuller.com

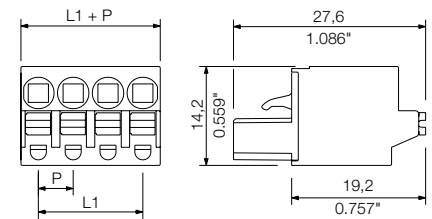
Note:

- Additional colours on request
- Gold-plated contact surfaces 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

BLF 5.00HC../180



Dimensioned drawing



Accessories

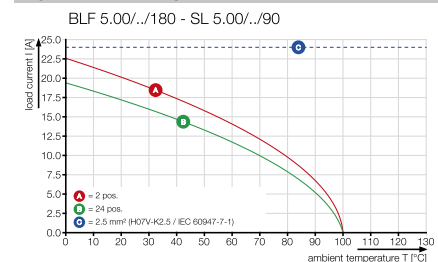
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	180	1017860000	1017670000
3	10.00	0.394	120	1017870000	1017680000
4	15.00	0.591	90	1017880000	1017690000
5	20.00	0.788	72	1017890000	1017710000
6	25.00	0.985	60	1017910000	1017720000
7	30.00	1.182	48	1017920000	1017730000
8	35.00	1.379	42	1017930000	1017740000
9	40.00	1.576	36	1017950000	1017750000
10	45.00	1.773	36	1017960000	1017760000
11	50.00	1.970	30	1017970000	1017770000
12	55.00	2.167	30	1017980000	1017780000
13	60.00	2.364	24	1017990000	1017790000
14	65.00	2.561	24	1018010000	1017810000
15	70.00	2.758	24	1018020000	1017820000
16	75.00	2.955	18	1018030000	1017830000
17	80.00	3.152	18	1018040000	1017840000
18	85.00	3.349	18	1018050000	1017850000

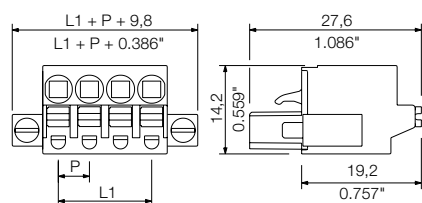
Representative deratings curve



BLF 5.00HC/./180F



Dimensioned drawing



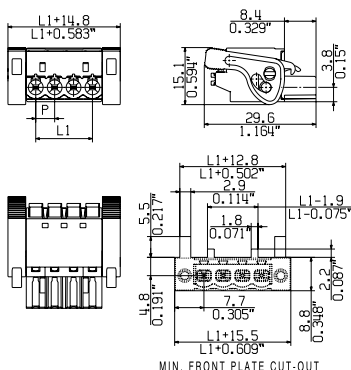
Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch 5.00 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1017420000	1017240000
3	10.00	0.394	72	1017430000	1017250000
4	15.00	0.591	60	1017440000	1017260000
5	20.00	0.788	48	1017450000	1017270000
6	25.00	0.985	42	1017470000	1017280000
7	30.00	1.182	36	1017480000	1017290000
8	35.00	1.379	36	1017490000	1017310000
9	40.00	1.576	30	1017510000	1017320000
10	45.00	1.773	30	1017520000	1017330000
11	50.00	1.970	24	1017530000	1017340000
12	55.00	2.167	24	1017540000	1017350000
13	60.00	2.364	24	1017550000	1017360000
14	65.00	2.561	18	1017570000	1017370000
15	70.00	2.758	18	1017590000	1017380000
16	75.00	2.955	18	1017600000	1017390000
17	80.00	3.152	18	1017610000	1017400000
18	85.00	3.349	18	1017620000	1017410000

BLF 5.00HC/./180LR



Dimensioned drawing



Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch 5.00 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1016340000	1016140000
3	10.00	0.394	72	1016350000	1016150000
4	15.00	0.591	60	1016360000	1016170000
5	20.00	0.788	48	1016370000	1016180000
6	25.00	0.985	42	1016380000	1016190000
7	30.00	1.182	36	1016390000	1016210000
8	35.00	1.379	36	1016410000	1016220000
9	40.00	1.576	30	1016420000	1016230000
10	45.00	1.773	30	1016430000	1016240000
11	50.00	1.970	24	1016440000	1016250000
12	55.00	2.167	24	1016450000	1016260000
13	60.00	2.364	24	1016460000	1016270000
14	65.00	2.561	18	1016470000	1016280000
15	70.00	2.758	18	1016480000	1016290000
16	75.00	2.955	18	1016490000	1016310000
17	80.00	3.152	18	1016510000	1016320000
18	85.00	3.349	18	1016520000	1016330000

"PUSH IN" connection technology

"PUSH IN" connection technology reduces the wiring efforts especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanatory and enable tool-less handling. The contact element made of stainless steel ensures a vibration proof, maintenance free wire termination. The established principle "STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

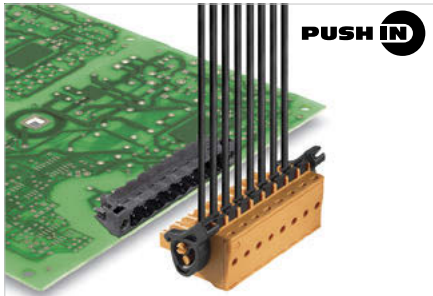


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybrite platform contact ensures a constant quality on a very high level. Hybrite means, that we combine metal material featuring different characteristics by welding, in order to divide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.



BLF 5.00HC/./90



“PUSH IN” - Weidmüller’s innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...3.31	
Solid core H05(07) V-U	mm ²	0.2...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...2.5	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	20	17
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 20 A / 0.2 - 2.5 mm²
 UL: 300 V / 10 A / AWG 12 - 26

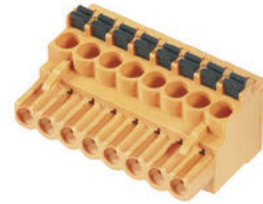


For additional articles and information, refer to catalog.weidmueller.com

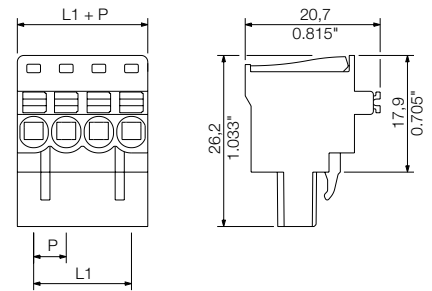
Note:

- Additional colours on request
- Gold-plated contact surfaces 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

BLF 5.00HC/./90



Dimensioned drawing



Accessories

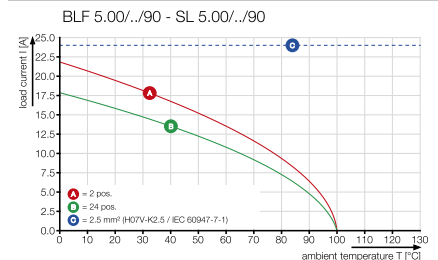
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	180	1980170000	1979270000
3	10.00	0.394	120	1980180000	1979280000
4	15.00	0.591	90	1980190000	1979290000
5	20.00	0.788	72	1980200000	1979300000
6	25.00	0.985	60	1980210000	1979310000
7	30.00	1.182	48	1980220000	1979320000
8	35.00	1.379	42	1980230000	1979330000
9	40.00	1.576	36	1980240000	1979340000
10	45.00	1.773	36	1980250000	1979350000
11	50.00	1.970	30	1980260000	1979360000
12	55.00	2.167	30	1980270000	1979370000
13	60.00	2.364	24	1980280000	1979380000
14	65.00	2.561	24	1980290000	1979390000
15	70.00	2.758	24	1980300000	1979400000
16	75.00	2.955	18	1980310000	1979410000
17	80.00	3.152	18	1980320000	1979420000
18	85.00	3.349	18	1980330000	1979430000
19	90.00	3.546	18	1980340000	1979440000
20	95.00	3.743	18	1980360000	1979450000

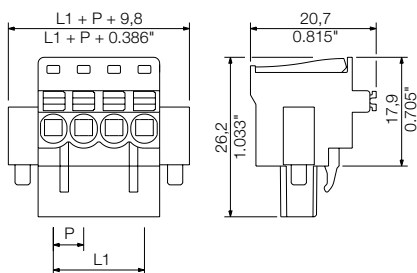
Representative deratings curve



BLF 5.00HC/./90F



Dimensioned drawing



Ordering data

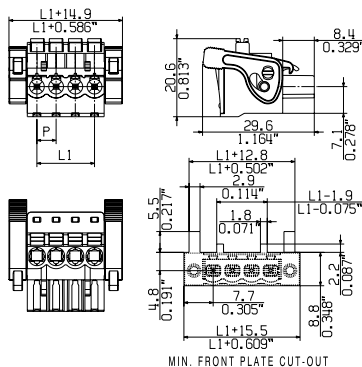
Solder pin length					
Colour		Orange	Black		
Pitch 5.00 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1980640000	1979460000
3	10.00	0.394	72	1980650000	1979470000
4	15.00	0.591	60	1980660000	1979480000
5	20.00	0.788	48	1980670000	1979490000
6	25.00	0.985	42	1980680000	1979500000
7	30.00	1.182	36	1980690000	1979510000
8	35.00	1.379	36	1980700000	1979520000
9	40.00	1.576	30	1980710000	1979530000
10	45.00	1.773	30	1980720000	1979540000
11	50.00	1.970	24	1980730000	1979550000
12	55.00	2.167	24	1980740000	1979560000
13	60.00	2.364	24	1980750000	1979570000
14	65.00	2.561	18	1980760000	1979580000
15	70.00	2.758	18	1980780000	1979590000
16	75.00	2.955	18	1980790000	1979600000
17	80.00	3.152	18	1980800000	1979610000
18	85.00	3.349	18	1980810000	1979620000
19	90.00	3.546	12	1980820000	1979630000
20	95.00	3.743	12	1980840000	1979640000

BLF 5.00HC/./90LR

with lock and release lever



Dimensioned drawing



Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch 5.00 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1980870000	1979790000
3	10.00	0.394	72	1980880000	1979800000
4	15.00	0.591	60	1980890000	1979810000
5	20.00	0.788	48	1980900000	1979820000
6	25.00	0.985	42	1980910000	1979830000
7	30.00	1.182	36	1980920000	1979840000
8	35.00	1.379	36	1980930000	1979850000
9	40.00	1.576	30	1980940000	1979860000
10	45.00	1.773	30	1980950000	1979870000
11	50.00	1.970	24	1980960000	1979880000
12	55.00	2.167	24	1980970000	1979890000
13	60.00	2.364	24	1980980000	1979900000
14	65.00	2.561	18	1980990000	1979910000
15	70.00	2.758	18	1981000000	1979920000
16	75.00	2.955	18	1981010000	1979930000
17	80.00	3.152	18	1981020000	1979940000
18	85.00	3.349	18	1981030000	1979950000
19	90.00	3.546	12	1981040000	1979960000
20	95.00	3.743	12	1981050000	1979970000

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Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybri platform contact ensures a constant quality on a very high level. Hybri means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

BLZP 5.08HC/./180



The BLZP is the functional extension of the BLZ series. The "P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY - delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...4	
Solid core H05(07) V-U	mm²	0.2...4	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...4	
Flexible with ferrule	mm ²	0.2...4	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0	
According to norm			
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	23	21
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	4	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)	B	C	D
Rated voltage	V	300	300
Rated current	A	20	10
AWG conductor	AWG	30-12	
CSA (Use Group)	B	C	D
Rated voltage	V	300	50 300
Rated current	A	20	20
AWG conductor	AWG	30-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 23 A / 0.2 - 4 mm²
UL: 300 V / 20 A / AWG 30 - 12



For additional articles and information, refer to catalog.weidmueller.com

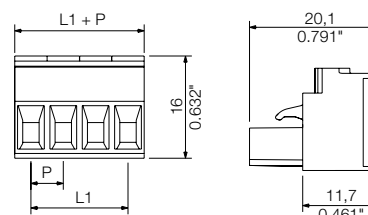
Note:

- Additional colours on request
- Gold-plated contact surfaces 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.

BLZP 5.08HC/./180



Dimensioned drawing



Accessories

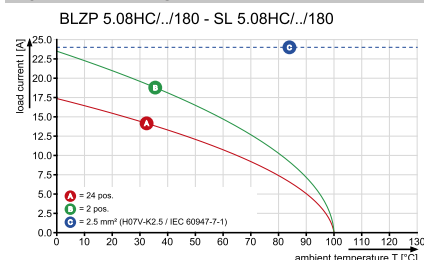
Note: Refer to the Accessories chapter for additional accessories.

Strain relief	Order No.
BLZ 5.08 ZE04 BK BX	1652130000
BLZ 5.08 ZE04 OR BX	1652110000
BLZ 5.08 ZE08 BK BX	1652070000
BLZ 5.08 ZE08 OR BX	1652050000
Coding	
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000
Crosshead screwdriver	
SDK PH1	9008480000
SDK PZ1	9008530000

Ordering data

Solder pin length		Orange	Black		
Colour					
Pitch 5.08 mm					
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.08	0.200	100	1943580000	1943810000
3	10.16	0.400	100	1943590000	1943820000
4	15.24	0.600	100	1943600000	1943830000
5	20.32	0.800	45	1943610000	1943840000
6	25.40	1.000	45	1943620000	1943850000
7	30.48	1.200	45	1943630000	1943860000
8	35.56	1.400	45	1943640000	1943870000
9	40.64	1.600	45	1943650000	1943880000
10	45.72	1.800	45	1943660000	1943890000
11	50.80	2.000	36	1943670000	1943900000
12	55.88	2.200	36	1943680000	1943910000
13	60.96	2.400	36	1943690000	1943920000
14	66.04	2.600	27	1943700000	1943930000
15	71.12	2.800	27	1943710000	1943940000
16	76.20	3.000	27	1943720000	1943950000
17	81.28	3.200	18	1943730000	1943960000
18	86.36	3.400	18	1943740000	1943970000
19	91.44	3.600	18	1943750000	1943980000
20	96.52	3.800	18	1943760000	1943990000
21	101.60	4.000	18	1943770000	1944000000
22	106.68	4.200	18	1943780000	1944010000
23	111.76	4.400	18	1943790000	1944020000
24	116.84	4.600	18	1943800000	1944030000

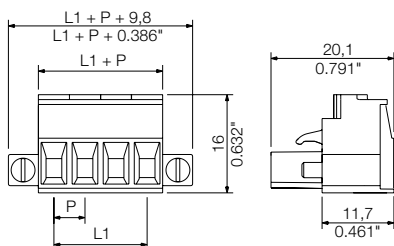
Representative deratings curve



BLZP 5.08HC../180F



Dimensioned drawing



Ordering data

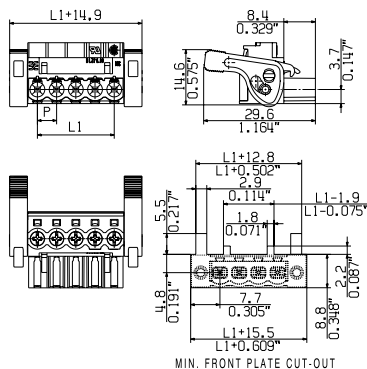
Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.08	0.200	90	1944090000	1944330000
3	10.16	0.400	72	1944100000	1944340000
4	15.24	0.600	60	1944110000	1944350000
5	20.32	0.800	48	1944120000	1944360000
6	25.40	1.000	42	1944130000	1944370000
7	30.48	1.200	36	1944140000	1944380000
8	35.56	1.400	36	1944150000	1944390000
9	40.64	1.600	30	1944160000	1944400000
10	45.72	1.800	30	1944170000	1944410000
11	50.80	2.000	24	1944180000	1944420000
12	55.88	2.200	24	1944190000	1944430000
13	60.96	2.400	24	1944200000	1944440000
14	66.04	2.600	18	1944210000	1944450000
15	71.12	2.800	18	1944220000	1944460000
16	76.20	3.000	18	1944230000	1944470000
17	81.28	3.200	18	1944240000	1944480000
18	86.36	3.400	18	1944250000	1944490000
19	91.44	3.600	12	1944260000	1944500000
20	96.52	3.800	12	1944270000	1944510000
21	101.60	4.000	12	1944280000	1944520000
22	106.68	4.200	12	1944290000	1944530000
23	111.76	4.400	12	1944300000	1944540000
24	116.84	4.600	12	1944310000	1944550000

BLZP 5.08HC../180LR

with release latch



Dimensioned drawing



Ordering data

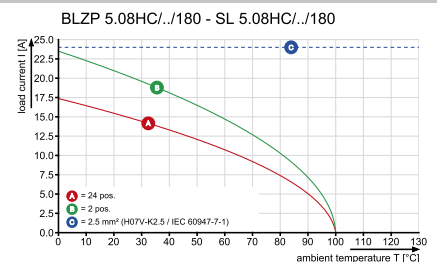
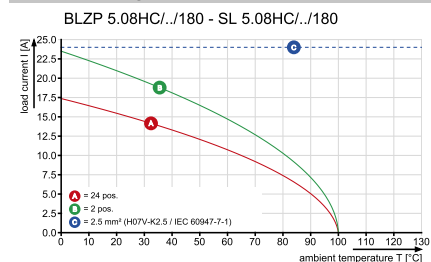
Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.08	0.200	90	1944830000	1945060000
3	10.16	0.400	72	1944840000	1945070000
4	15.24	0.600	60	1944850000	1945080000
5	20.32	0.800	48	1944860000	1945090000
6	25.40	1.000	42	1944870000	1945100000
7	30.48	1.200	36	1944880000	1945110000
8	35.56	1.400	36	1944890000	1945120000
9	40.64	1.600	30	1944900000	1945130000
10	45.72	1.800	30	1944910000	1945140000
11	50.80	2.000	24	1944920000	1945150000
12	55.88	2.200	24	1944930000	1945160000
13	60.96	2.400	24	1944940000	1945170000
14	66.04	2.600	18	1944950000	1945180000
15	71.12	2.800	18	1944960000	1945190000
16	76.20	3.000	18	1944970000	1945200000
17	81.28	3.200	18	1944980000	1945210000
18	86.36	3.400	18	1944990000	1945220000
19	91.44	3.600	12	1945000000	1945230000
20	96.52	3.800	12	1945010000	1945240000
21	101.60	4.000	12	1945020000	1945250000
22	106.68	4.200	12	1945030000	1945260000
23	111.76	4.400	12	1945040000	1945270000
24	116.84	4.600	12	1945050000	1945280000



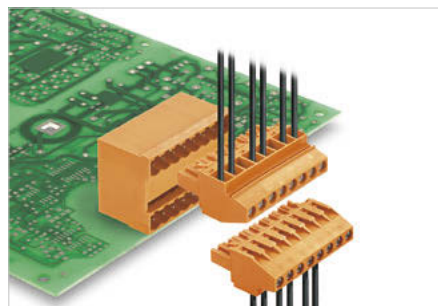
The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level. Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.

Additional deratings curves



BLZP 5.08HC../270



The BLZP is the functional extension of the BLZ series. The "P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY - delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...4	
Solid core H05(07) V-U	mm ²	0.2...4	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...4	
Flexible with ferrule	mm ²	0.2...4	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	7	
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0	
According to norm			
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	23	21
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	4	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4 4 4	
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	20	10
AWG conductor	AWG	30-12	
CSA (Use Group)		B	C D
Rated voltage	V	300	50 300
Rated current	A	20	20
AWG conductor	AWG	30-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		Cu-Leg	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 23 A / 0.2 - 4 mm²
 UL: 300 V / 20 A / AWG 30 - 12



For additional articles and information, refer to catalog.weidmueller.com

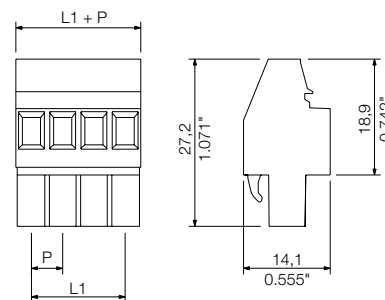
Note:

- Additional colours on request
- Gold-plated contact surfaces 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.

BLZP 5.08HC../270



Dimensioned drawing



Accessories

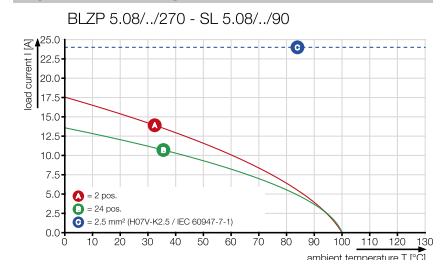
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crosshead screwdriver		
	SDK PH1	9008480000
	SDK PZ1	9008530000

Ordering data

Solder pin length						
Colour	Orange		Black			
Pitch	5.08 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.	
2	5.08	0.200	180	1948790000	1949020000	
3	10.16	0.400	120	1948800000	1949030000	
4	15.24	0.600	90	1948810000	1949040000	
5	20.32	0.800	72	1948820000	1949050000	
6	25.40	1.000	60	1948830000	1949060000	
7	30.48	1.200	48	1948840000	1949070000	
8	35.56	1.400	42	1948850000	1949080000	
9	40.64	1.600	36	1948860000	1949090000	
10	45.72	1.800	36	1948870000	1949100000	
11	50.80	2.000	30	1948880000	1949110000	
12	55.88	2.200	30	1948890000	1949120000	
13	60.96	2.400	24	1948900000	1949130000	
14	66.04	2.600	24	1948910000	1949140000	
15	71.12	2.800	24	1948920000	1949150000	
16	76.20	3.000	18	1948930000	1949160000	
17	81.28	3.200	18	1948940000	1949170000	
18	86.36	3.400	18	1948950000	1949180000	
19	91.44	3.600	18	1948960000	1949190000	
20	96.52	3.800	18	1948970000	1949200000	
21	101.60	4.000	12	1948980000	1949210000	
22	106.68	4.200	12	1948990000	1949220000	
23	111.76	4.400	12	1949000000	1949230000	
24	116.84	4.600	12	1949010000	1949240000	

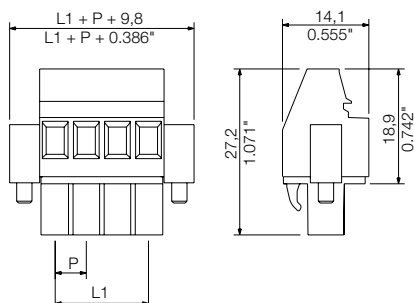
Representative deratings curve



BLZP 5.08HC/././270F



Dimensioned drawing



Ordering data

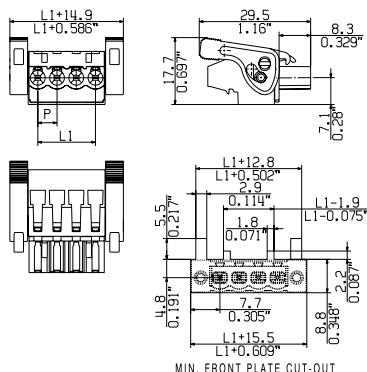
Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1950310000	1950550000
3	10.16	0.400	72	1950320000	1950560000
4	15.24	0.600	60	1950330000	1950570000
5	20.32	0.800	48	1950340000	1950580000
6	25.40	1.000	42	1950350000	1950620000
7	30.48	1.200	36	1950360000	1950630000
8	35.56	1.400	36	1950370000	1950640000
9	40.64	1.600	30	1950380000	1950650000
10	45.72	1.800	30	1950390000	1950660000
11	50.80	2.000	24	1950400000	1950670000
12	55.88	2.200	24	1950410000	1950690000
13	60.96	2.400	24	1950420000	1950700000
14	66.04	2.600	18	1950430000	1950710000
15	71.12	2.800	18	1950440000	1950720000
16	76.20	3.000	18	1950450000	1950730000
17	81.28	3.200	18	1950460000	1950740000
18	86.36	3.400	18	1950470000	1950750000
19	91.44	3.600	12	1950480000	1950760000
20	96.52	3.800	12	1950490000	1950770000
21	101.60	4.000	12	1950500000	1950780000
22	106.68	4.200	12	1950510000	1950790000
23	111.76	4.400	12	1950520000	1950800000
24	116.84	4.600	12	1950540000	1950810000

BLZP 5.08HC/././270LR

with release latch



Dimensioned drawing



Ordering data

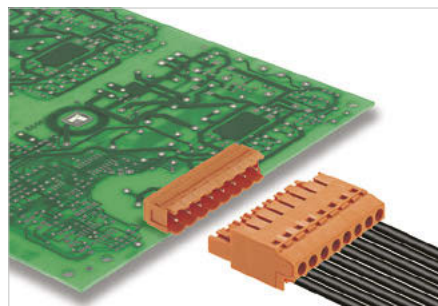
Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1947530000	1947760000
3	10.16	0.400	72	1947540000	1947770000
4	15.24	0.600	60	1947550000	1947780000
5	20.32	0.800	48	1947560000	1947790000
6	25.40	1.000	42	1947570000	1947800000
7	30.48	1.200	36	1947580000	1947810000
8	35.56	1.400	36	1947590000	1947820000
9	40.64	1.600	30	1947600000	1947830000
10	45.72	1.800	30	1947610000	1947840000
11	50.80	2.000	24	1947620000	1947850000
12	55.88	2.200	24	1947630000	1947860000
13	60.96	2.400	24	1947640000	1947870000
14	66.04	2.600	18	1947650000	1947880000
15	71.12	2.800	18	1947660000	1947890000
16	76.20	3.000	18	1947670000	1947900000
17	81.28	3.200	18	1947680000	1947910000
18	86.36	3.400	18	1947690000	1947920000
19	91.44	3.600	12	1947700000	1947930000
20	96.52	3.800	12	1947710000	1947940000
21	101.60	4.000	12	1947720000	1947950000
22	106.68	4.200	12	1947730000	1947960000
23	111.76	4.400	12	1947740000	1947970000
24	116.84	4.600	12	1947750000	1947980000

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level. Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.



BLT 5.08HC../180



The BLT is currently the most compact TOP connection of its type available in 5.08 mm pitch.

- The BLT's "pull effect" ensures that the connected wire is pulled in to the clamping point.
- The extra flat shape allows for dense component assembly.
- The specialist for cramped installations
- The screw connect and the cable entry are located on the same side of the connector.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...2.5	
Solid core H05(07) V-U	mm²	0.2...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...1.5	
Flexible with ferrule	mm ²	0.2...1.5	
Ferrule with plastic collar	mm ²	0.2...1.5	
Stripping length	mm	13	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm	
Tightening torque range	Nm	0.4...0.5	
Rated current, max.	A	27	24
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)	B C D	B	C D
Rated voltage	V	300	300
Rated current	A	17	10
AWG conductor	AWG	26-14	
CSA (Use Group)	B C D	B	C D
Rated voltage	V	300	300
Rated current	A	15	15
AWG conductor	AWG	26-14	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 27 A / 0.2 - 2.5 mm²
 UL: 300 V / 17 A / AWG 26 - 14



For additional articles and information, refer to catalog.weidmueller.com

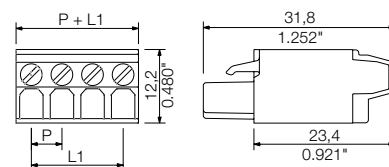
Note:

- Additional colours on request
- Gold-plated contact surfaces 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
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- 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.

BLT 5.08HC../180



Dimensioned drawing



Accessories

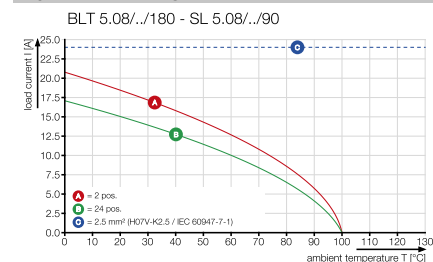
Note: Refer to the Accessories chapter for additional accessories.

Strain relief		Order No.
	BLAT ZE04 OR BX	1577980000
	BLAT ZE08 OR BX	1578010000
Coding		
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length					
Colour	Orange		Black		
Pitch 5.08 mm					
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.08	0.200	180	1499560000	1499510000
3	10.16	0.400	120	1499660000	1499610000
4	15.24	0.600	90	1499760000	1499710000
5	20.32	0.800	72	1499860000	1499810000
6	25.40	1.000	60	1499960000	1499910000
7	30.48	1.200	48	1500060000	1500010000
8	35.56	1.400	42	1500160000	1500110000
9	40.64	1.600	36	1500260000	1500210000
10	45.72	1.800	36	1500360000	1500310000
11	50.80	2.000	30	1500460000	1500410000
12	55.88	2.200	30	1500560000	1500510000
13	60.96	2.400	24	1500660000	1500610000
14	66.04	2.600	24	1500760000	1500710000
15	71.12	2.800	24	1500860000	1500810000
16	76.20	3.000	18	1500960000	1500910000
17	81.28	3.200	18	1501060000	1501010000
18	86.36	3.400	18	1501160000	1501110000
19	91.44	3.600	18	1501260000	1501210000
20	96.52	3.800	18	1501360000	1501310000
21	101.60	4.000	12	1501460000	1501410000
22	106.68	4.200	12	1501560000	1501510000
23	111.76	4.400	12	1501660000	1501610000
24	116.84	4.600	12	1501760000	1501710000

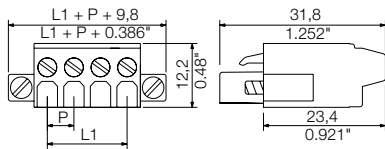
Representative deratings curve



BLT 5.08HC../180F



Dimensioned drawing



Ordering data

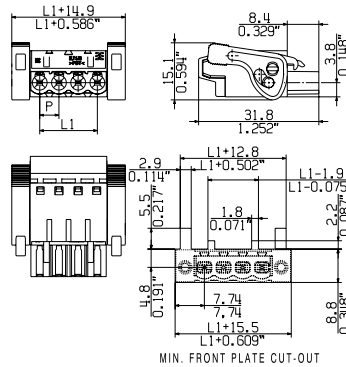
Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1843990000	1844220000
3	10.16	0.400	72	1844000000	1844230000
4	15.24	0.600	60	1844010000	1844240000
5	20.32	0.800	48	1844020000	1844250000
6	25.40	1.000	42	1844030000	1844260000
7	30.48	1.200	36	1844040000	1844270000
8	35.56	1.400	36	1844050000	1844280000
9	40.64	1.600	30	1844060000	1844290000
10	45.72	1.800	30	1844070000	1844300000
11	50.80	2.000	24	1844080000	1844310000
12	55.88	2.200	24	1844090000	1844320000
13	60.96	2.400	24	1844100000	1844330000
14	66.04	2.600	18	1844110000	1844340000
15	71.12	2.800	18	1844120000	1844350000
16	76.20	3.000	18	1844130000	1844360000
17	81.28	3.200	18	1844140000	1844370000
18	86.36	3.400	18	1844150000	1844380000
19	91.44	3.600	12	1844160000	1844390000
20	96.52	3.800	12	1844170000	1844400000
21	101.60	4.000	12	1844180000	1844410000
22	106.68	4.200	12	1844190000	1844420000
23	111.76	4.400	12	1844200000	1844430000
24	116.84	4.600	12	1844210000	1844440000

BLT 5.08HC../180LR

with release bar



Dimensioned drawing



Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1890220000	1894130000
3	10.16	0.400	72	1890230000	1894140000
4	15.24	0.600	60	1890240000	1894150000
5	20.32	0.800	48	1890250000	1894160000
6	25.40	1.000	42	1890260000	1894170000
7	30.48	1.200	36	1890270000	1894180000
8	35.56	1.400	36	1890280000	1894190000
9	40.64	1.600	30	1890290000	1894200000
10	45.72	1.800	30	1890300000	1894210000
11	50.80	2.000	24	1890310000	1894220000
12	55.88	2.200	24	1890320000	1894230000
13	60.96	2.400	24	1890330000	1894240000
14	66.04	2.600	18	1890340000	1894250000
15	71.12	2.800	18	1890350000	1894260000
16	76.20	3.000	18	1890360000	1894270000
17	81.28	3.200	18	1890370000	1894280000
18	86.36	3.400	18	1890380000	1894290000
19	91.44	3.600	12	1890390000	1894310000
20	96.52	3.800	12	1890400000	1894330000
21	101.60	4.000	12	1890410000	1894340000
22	106.68	4.200	12	1890420000	1894350000
23	111.76	4.400	12	1890430000	1894360000
24	116.84	4.600	12	1890440000	1894370000

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level. Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it 's even both - perfect for the current, and perfect for the force.



Technical data

Machinery

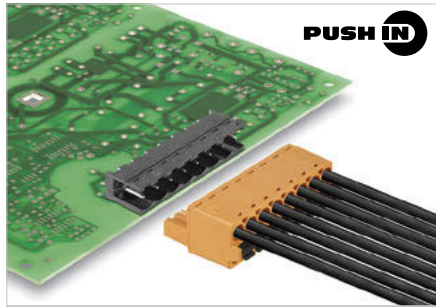
Process

Energy

Transportation

Device Manufacturers

BLF 5.08HC../180



“PUSH IN” - Weidmüller’s innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...3.31	
Solid core H05(07) V-U	mm ²	0.2...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...2.5	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm	
Tightening torque range	Nm		
Rated current, max.	A	24	21
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	18.5	10
AWG conductor	AWG	26-12	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	26-12	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 24 A / 0.2 - 2.5 mm²
 UL: 300 V / 18.5 A / AWG 26 - 12



For additional articles and information, refer to catalog.weidmueller.com

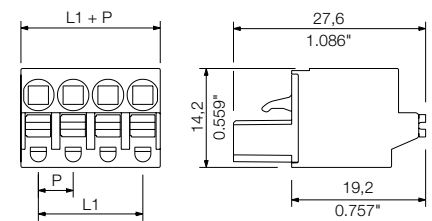
Note:

- Additional colours on request
- Gold-plated contact surfaces 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

BLF 5.08HC../180



Dimensioned drawing



Accessories

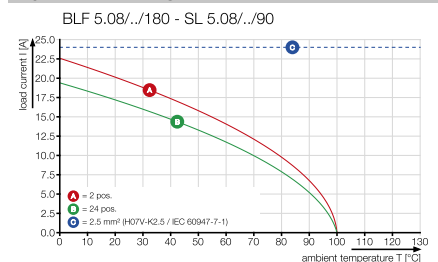
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	180	1013680000	1013430000
3	10.16	0.400	120	1013690000	1013440000
4	15.24	0.600	90	1013710000	1013450000
5	20.32	0.800	72	1013720000	1013460000
6	25.40	1.000	60	1013730000	1013470000
7	30.48	1.200	48	1013740000	1013480000
8	35.56	1.400	42	1013750000	1013490000
9	40.64	1.600	36	1013760000	1013510000
10	45.72	1.800	36	1013770000	1013520000
11	50.80	2.000	30	1013780000	1013530000
12	55.88	2.200	30	1013790000	1013540000
13	60.96	2.400	24	1013810000	1013550000
14	66.04	2.600	24	1013820000	1013560000
15	71.12	2.800	24	1013830000	1013570000
16	76.20	3.000	18	1013840000	1013580000
17	81.28	3.200	18	1013850000	1013590000
18	86.36	3.400	18	1013860000	1013610000
19	91.44	3.600	18	1013870000	1013620000
20	96.52	3.800	18	1013880000	1013630000
21	101.60	4.000	12	1013890000	1013640000
22	106.68	4.200	12	1013910000	1013650000
23	111.76	4.400	12	1013920000	1013660000
24	116.84	4.600	12	1013930000	1013670000

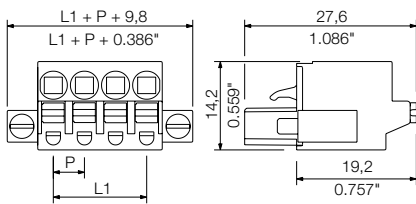
Representative deratings curve



BLF 5.08HC../180F



Dimensioned drawing



Ordering data

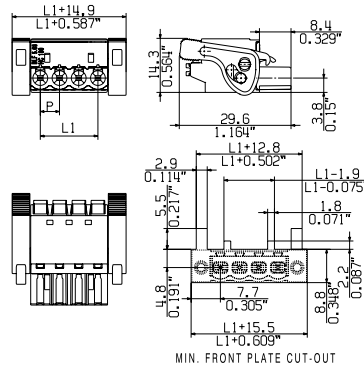
Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1013070000	1012640000
3	10.16	0.400	72	1013090000	1012650000
4	15.24	0.600	60	1013110000	1012660000
5	20.32	0.800	48	1013120000	1012670000
6	25.40	1.000	42	1013130000	1012680000
7	30.48	1.200	36	1013140000	1012690000
8	35.56	1.400	36	1013150000	1012710000
9	40.64	1.600	30	1013160000	1012720000
10	45.72	1.800	30	1013170000	1012730000
11	50.80	2.000	24	1013180000	1012740000
12	55.88	2.200	24	1013190000	1012750000
13	60.96	2.400	24	1013210000	1012940000
14	66.04	2.600	18	1013220000	1012950000
15	71.12	2.800	18	1013230000	1012960000
16	76.20	3.000	18	1013240000	1012970000
17	81.28	3.200	18	1013250000	1012980000
18	86.36	3.400	18	1013260000	1012990000
19	91.44	3.600	12	1013270000	1013010000
20	96.52	3.800	12	1013280000	1013020000
21	101.60	4.000	12	1013290000	1013030000
22	106.68	4.200	12	1013310000	1013040000
23	111.76	4.400	12	1013320000	1013050000
24	116.84	4.600	12	1013330000	1013060000

BLF 5.08HC../180LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1014370000	1014120000
3	10.16	0.400	72	1014380000	1014130000
4	15.24	0.600	60	1014390000	1014140000
5	20.32	0.800	48	1014410000	1014150000
6	25.40	1.000	42	1014420000	1014160000
7	30.48	1.200	36	1014430000	1014170000
8	35.56	1.400	36	1014440000	1014180000
9	40.64	1.600	30	1014450000	1014190000
10	45.72	1.800	30	1014460000	1014210000
11	50.80	2.000	24	1014470000	1014220000
12	55.88	2.200	24	1014480000	1014230000
13	60.96	2.400	24	1014490000	1014240000
14	66.04	2.600	18	1014510000	1014250000
15	71.12	2.800	18	1014520000	1014260000
16	76.20	3.000	18	1014530000	1014270000
17	81.28	3.200	18	1014540000	1014280000
18	86.36	3.400	18	1014550000	1014290000
19	91.44	3.600	12	1014560000	1014310000
20	96.52	3.800	12	1014570000	1014320000
21	101.60	4.000	12	1014580000	1014330000
22	106.68	4.200	12	1014590000	1014340000
23	111.76	4.400	12	1014610000	1014350000
24	116.84	4.600	12	1014620000	1014360000

"PUSH IN" connection technology

"PUSH IN" connection technology reduces the wiring efforts especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanatory and enable tool-less handling. The contact element made of stainless steel ensures a vibration proof, maintenance free wire termination. The established principle "STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

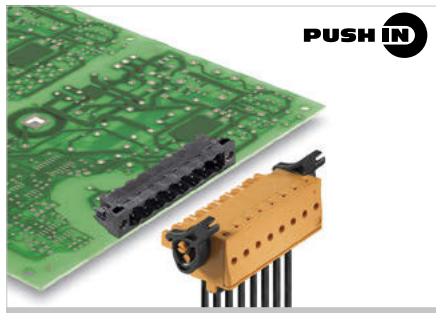


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybrite platform contact ensures a constant quality on a very high level. Hybrite means, that we combine metal material featuring different characteristics by welding, in order to divide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.



BLF 5.08HC/./270



“PUSH IN” - Weidmüller’s innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling - since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...3.31	
Solid core H05(07) V-U	mm ²	0.2...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...2.5	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm DIN 5264	
Tightening torque range	Nm		
Rated current, max.	A	24	21
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	18.5	10
AWG conductor	AWG	26-12	
CSA (Use Group)	B C D		
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 24 A / 0.2 - 2.5 mm²
 UL: 300 V / 18.5 A / AWG 26 - 12



For additional articles and information, refer to catalog.weidmueller.com

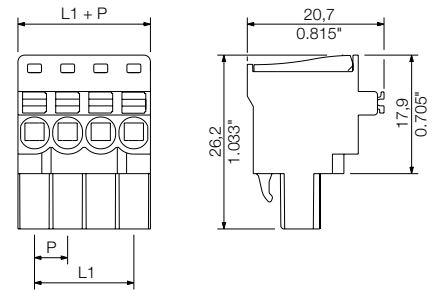
Note:

- Additional colours on request
- Gold-plated contact surfaces 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

BLF 5.08HC/./270



Dimensioned drawing



Accessories

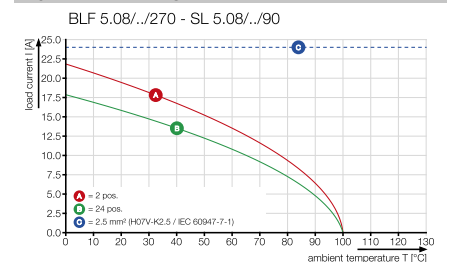
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO BK BX	1545710000
	BLZ/SL KO OR BX	1573010000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

Solder pin length					
Colour	Orange		Black		
Pitch 5.08 mm					
Pol.	L1 (inch)	Qty.	Order No.	Order No.	
2	5.08	0.200	180 1982700000	180 1981930000	
3	10.16	0.400	120 1982710000	120 1981940000	
4	15.24	0.600	90 1982720000	90 1981950000	
5	20.32	0.800	72 1982730000	72 1981960000	
6	25.40	1.000	60 1982740000	60 1981970000	
7	30.48	1.200	48 1982750000	48 1981980000	
8	35.56	1.400	42 1982760000	42 1981990000	
9	40.64	1.600	36 1982770000	36 1982000000	
10	45.72	1.800	36 1982780000	36 1982010000	
11	50.80	2.000	30 1982790000	30 1982020000	
12	55.88	2.200	30 1982800000	30 1982030000	
13	60.96	2.400	24 1982810000	24 1982040000	
14	66.04	2.600	24 1982820000	24 1982050000	
15	71.12	2.800	24 1982830000	24 1982060000	
16	76.20	3.000	18 1982840000	18 1982070000	
17	81.28	3.200	18 1982850000	18 1982080000	
18	86.36	3.400	18 1982860000	18 1982090000	
19	91.44	3.600	18 1982870000	18 1982100000	
20	96.52	3.800	18 1982880000	18 1982110000	

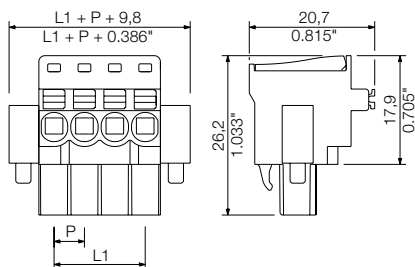
Representative deratings curve



BLF 5.08HC/./270F



Dimensioned drawing



Ordering data

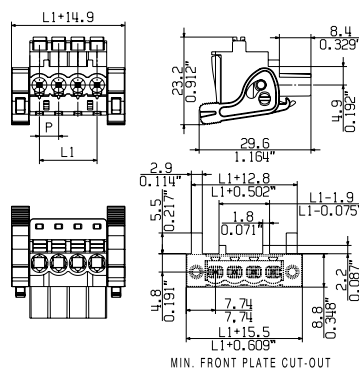
Solder pin length					
Colour		Orange	Black		
Pitch 5.08 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1982890000	1982120000
3	10.16	0.400	72	1982900000	1982130000
4	15.24	0.600	60	1982910000	1982140000
5	20.32	0.800	48	1982920000	1982150000
6	25.40	1.000	42	1982930000	1982160000
7	30.48	1.200	36	1982940000	1982170000
8	35.56	1.400	36	1982950000	1982180000
9	40.64	1.600	30	1982960000	1982190000
10	45.72	1.800	30	1982970000	1982200000
11	50.80	2.000	24	1982980000	1982210000
12	55.88	2.200	24	1982990000	1982220000
13	60.96	2.400	24	1983000000	1982230000
14	66.04	2.600	18	1983010000	1982240000
15	71.12	2.800	18	1983020000	1982250000
16	76.20	3.000	18	1983030000	1982260000
17	81.28	3.200	18	1983040000	1982270000
18	86.36	3.400	18	1983050000	1982280000
19	91.44	3.600	12	1983060000	1982290000
20	96.52	3.800	12	1983070000	1982300000

BLF 5.08HC/./270LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch 5.08 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1983080000	1982310000
3	10.16	0.400	72	1983090000	1982320000
4	15.24	0.600	60	1983100000	1982330000
5	20.32	0.800	48	1983110000	1982340000
6	25.40	1.000	42	1983120000	1982350000
7	30.48	1.200	36	1983130000	1982360000
8	35.56	1.400	36	1983140000	1982370000
9	40.64	1.600	30	1983150000	1982380000
10	45.72	1.800	30	1983160000	1982390000
11	50.80	2.000	24	1983170000	1982400000
12	55.88	2.200	24	1983180000	1982410000
13	60.96	2.400	24	1983190000	1982420000
14	66.04	2.600	18	1983200000	1982430000
15	71.12	2.800	18	1983210000	1982440000
16	76.20	3.000	18	1983220000	1982450000
17	81.28	3.200	18	1983230000	1982460000
18	86.36	3.400	18	1983240000	1982470000
19	91.44	3.600	12	1983250000	1982480000
20	96.52	3.800	12	1983260000	1982490000

"PUSH IN" connection technology

"PUSH IN" connection technology reduces the wiring efforts especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanatory and enable tool-less handling. The contact element made of stainless steel ensures a vibration proof, maintenance free wire termination. The established principle "STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

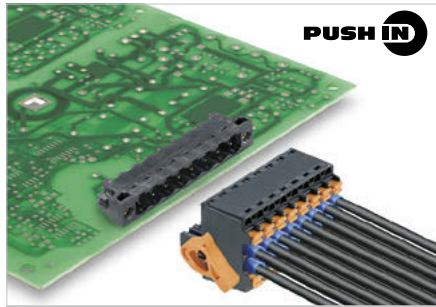


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybri platform contact ensures a constant quality on a very high level. Hybri means, that we combine metal material featuring different characteristics by welding, in order to divide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it's even both - perfect for the current, and perfect for the force.



BLDF 5.08/./180



Bus connector with two connections per pole with the time-saving "PUSH IN" connection system.

- The extremely short cross-connection allows you to safely loop through bus currents of up to 22 A.
- This permits an interruption-free decoupling of individual modules from the network.
- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- An actuator must be used when connecting stranded wires with ferrules.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Technical data

In compliance with IEC 60664-1 / IEC 61984			
Clamping range, max.	mm ²	0.13...3.31	
Solid core H05(07) V-U	mm²	0.2...2.5	
Stranded H07 V-R			
Flexible H05(07) V-K	mm ²	0.2...2.5	
Flexible with ferrule	mm ²	0.2...2.5	
Ferrule with plastic collar	mm ²	0.2...2.5	
Stripping length	mm	10	
Screwdriver blade	mm	0.6 x 3.5	
		According to norm	
Tightening torque range	Nm		
Rated current, max.	A	20.8	17.9
At ambient temperature		20°C	40°C
For conductor cross-section	mm ²	2.5	
Overvoltage category		III	III II
Pollution severity		3	2 2
Rated voltage	V	250	320 400
Rated impulse voltage	kV	4	4 4
UL / CUL (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
CSA (Use Group)		B	C D
Rated voltage	V	300	300
Rated current	A	10	10
AWG conductor	AWG	12-26	
General data			
Type of insulation material		PBT	
UL 94 flammability rating		V-0	
Contact base material		CuSn	
Material of contact surface		tinned	
Pin dimensions = d	mm		
Solder eyelet Ø = D	mm		
Solder eyelet Ø tolerance	mm		

Product data

IEC: 400 V / 20.8 A / 0.2 - 2.5 mm²
 UL: 300 V / 10 A / AWG 12 - 26



For additional articles and information, refer to catalog.weidmueller.com

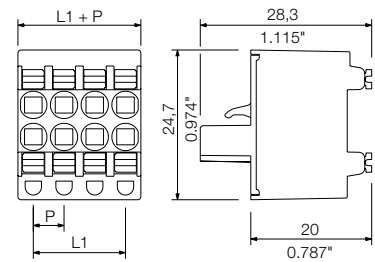
Note:

- Additional colours on request
- Gold-plated contact surfaces 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

BLDF 5.08/./180



Dimensioned drawing



Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding	Order No.
BLZ/SL KO BK BX	1545710000
BLZ/SL KO OR BX	1573010000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000
Wire-end ferrule	
H0,5/14S W	9004590000
H1,0/14S R	9018560000
H1,5/14S SW	9025240000
H2,5/14S BL	1333100000

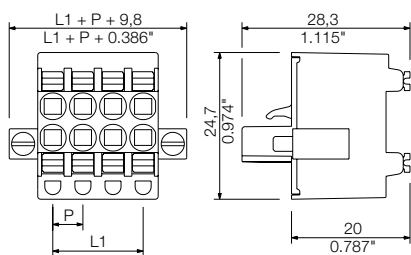
Ordering data

Solder pin length					
Colour	Orange		Black		
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	120	1001150000	1000860000
3	10.16	0.400	80	1001160000	1000870000
4	15.24	0.600	60	1001170000	1000880000
5	20.32	0.800	48	1001180000	1000890000
6	25.40	1.000	40	1001190000	1000900000
7	30.48	1.200	32	1001200000	1000910000
8	35.56	1.400	28	1001210000	1000920000

BLDF 5.08/./180F



Dimensioned drawing



Ordering data

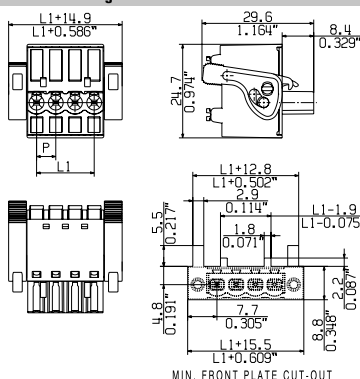
Solder pin length					
Colour		Orange	Black		
Pitch 5.08 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	60	1001220000	1000930000
3	10.16	0.400	48	1012060000	1000950000
4	15.24	0.600	40	1059420000	1000960000
5	20.32	0.800	32	1065080000	1000970000
6	25.40	1.000	28	1065090000	1000980000
7	30.48	1.200	24	1065110000	1000990000
8	35.56	1.400	24	1065120000	1001000000

BLDF 5.08/./180LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length					
Colour		Orange	Black		
Pitch 5.08 mm					
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	60	1065130000	1001010000
3	10.16	0.400	48	1065140000	1001020000
4	15.24	0.600	40	1065150000	1001030000
5	20.32	0.800	32	1065160000	1001040000
6	25.40	1.000	28	1065170000	1001050000
7	30.48	1.200	24	1065180000	1001060000
8	35.56	1.400	24	1065190000	1001070000

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The 2-in-1 contact

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Cutting Tools

- Cutting formation for different cable sizes increases the quality of the cuts for smaller cross-sections
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- Cutting without deformation of the conductor
- Do not cut at live conductors
- Individually tested protective insulation 1,000 V, VDE and GS tested according to EN/IEC 60900
- Optimised ergonomic handles
- Minimal hand force required



Technical data




Max. cutting performance, copper cable	
Copper cable - solid, max.	mm ² /-
Copper cable - stranded, max.	mm ² /-
Copper cable - flexible, max.	mm ² /-
Copper cable, max. diameter	mm
Max. cutting performance, aluminium cable	
Stranded aluminium cable, max (mm ²)	mm ² /-
Stranded aluminium cable, max. diameter	mm
Single-core aluminium cable, max.(mm ²)	mm ²
Data / telephone / control cable	
Data / telephone / control cable, max. Ø	mm
Tool data	
Length / Width / Height	mm
Weight of charger	g
Note	

Ordering data

Version
Note

KT 8



-  max. 8 mm
-  max. 16 mm²
-  max. 16 mm²
-  max. 16 mm²

KT8		
16 / 6		
16 / 6		
16 / 6		
8		
16 / 6		
8		
16		
8		
165 / 65 / 25		
180		
Tool closed		

Type	Qty.	Order No.
KT 8	1	9002650000

KT 12



-  max. 12 mm
-  max. 16 mm²
-  max. 25 mm²
-  max. 35 mm²

KT12		
16 / 6		
25 / 3		
35 / 2		
12		
25 / 6		
8		
25		
12		
215 / 66 / 28		
300		
Tool closed		

Type	Qty.	Order No.
KT 12	1	9002660000

Cutting Tools

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- Cutting without deformation of the conductor
- Do not cut at live conductors
- Individually tested protective insulation 1,000 V, VDE and GS tested according to EN/IEC 60900
- Optimised ergonomic handles
- Minimal hand force required

KT 14



-  max. 14 mm
-  max. 16 mm²
-  max. 35 mm²
-  max. 70 mm²

KT 22



-  max. 22 mm
-  max. 25 mm²
-  max. 50 mm²
-  max. 95 mm²

Technical data

Max. cutting performance, copper cable	
Copper cable - solid, max.	mm ² /-
Copper cable - stranded, max.	mm ² /-
Copper cable - flexible, max.	mm ² /-
Copper cable, max. diameter	mm
Max. cutting performance, aluminium cable	
Stranded aluminium cable, max (mm ²)	mm ² /-
Stranded aluminium cable, max. diameter	mm
Single-core aluminium cable, max.(mm ²)	mm ²
Data / telephone / control cable	
Data / telephone / control cable, max. Ø	mm
Tool data	
Length / Width / Height	mm
Weight of charger	g
Note	

Ordering data

Version
Note

16 / 6
35 / 2
70 / 2/0
14
70 / 2/0
14
35
14
215 / 66 / 28
320
Tool closed

Type	Qty.	Order No.
KT 14	1	1157820000
Single-core aluminium cable corresponds to single-wire sector cable		

25 / 3
50 / 1
95 / 3/0
22
70 / 2/0
22
50
22
210 / 66 / 30
460
Tool closed

Type	Qty.	Order No.
KT 22	1	1157830000

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

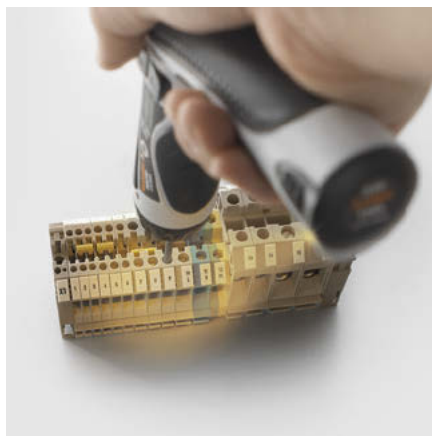
Torque screwdriver with rechargeable battery

- One-hand operation under all working conditions
- Clockwise/anticlockwise
- Two speeds: 200 and 600 rpm¹
- Precise torque pre-selection in 21 steps
- High reproducibility
- Simple changeover from straight to pistol form
- Bit holder: 1/4" ball bearing fixing mechanism (form E6.3)
- Safety lock prevents unintentional activation
- Simple switchover from battery to manual operation up to 15 Nm
- LED light
- Electronic shut off
- 1.5 Ah Li-ion battery technology
- Ergonomic design

DMS PRO



DMS PRO SET



Technical data

Screwdriver	
Rated voltage	3.6 V
Idling speed	200 u. 600 min ⁻¹
Max. Clutch torque	3 Nm
Bit holder	1/4" DIN 3126 Form E6.3
Length	276 mm
Weight	500 g
Battery	
Rechargeable batteries	Li-Ion battery
Battery voltage	3.6 V
Charger	
Charger input	AC 220-240V~50-60Hz 30W
Charger output	DC 2.8...6V; 4.8A / 30W max.
Charging time	30 min
Weight of charger	700 g
Note	

Type	Qty.	Order No.
DMS PRO	1	1479120000*
* available in Europe		

Ordering data

Version
Note

Accessories

Type	Qty.	Order No.
AKKU DMS PRO	1	1479110000*
LG DMS PRO/ DMS 3	1	9007460000
* available in Europe		
Note		

Lev	Nm	LOW 200/min HIGH 600/min	
		Lev	Nm
01	0.36	11	1.45
02	0.46	12	1.55
03	0.57	13	1.67
04	0.66	14	1.78
05	0.80	15	1.99
06	0.87	16	2.14
07	0.98	17	2.26
08	1.10	18	2.41
09	1.20	19	2.53
10	1.36	20	2.67
		21	2.83

Typ	VPE	Best.-Nr.
DMS PRO SET (screwdriver incl. batterie, 1 additional battery, charger, bits, plastic carrying case)**	1	1479090000*

* available in Europe
** see picture



**Device
Manufacturers**



Transportation



Energy

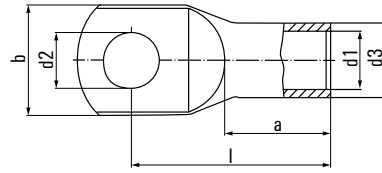


Process



Machinery

Technical data



Tubular cable lugs 0.5 – 25 mm², euro-series

Technical data

Material: Cu according to DIN EN 13600
 Surface: tin plated
 Approvals:



Ordering data

Cross-section mm ²	flat hole M	dimensions in mm						Qty. (pcs.)	Order No.	Tool recommendation
		d1	d3	d2	b	l	a			
0.5 – 0.75	3	1.4	3	3.2	6.5	12.5	6	1495010000*	HTN 21	
	4			4.3	8.5	14		1495020000*		
	5			5.3	10	15		1495030000*		
1.0 – 1.5	3	1.9	3.9	3.2	6.5	14	6	1495040000*		
	4			4.3	8.5	15		1495050000*		
	5			5.3	10	16		1495070000*		
	6			6.4	11	18		1495080000*		
2.5	4	2.4	4.4	4.3	8.5	15	6.5	1495090000*		
	5			5.3	10	16		1495100000*		
	6			6.4	11	18		1495110000*		
	8			8.4	13	20		1495120000*		
4	4	3	5	4.3	8.5	17	8	1495130000*		
	5			5.3	10	18		1495140000*		
	6			6.4	11	20		1495150000*		
	8			8.4	14	22		1495170000*		
6	4	3.5	6.5	4.3	10	19	9	1497150000		
	5			5.3	10	20		1497170000		
	6			6.4	11	21.5		1497180000		
	8			8.4	15	24		1497190000		
	10			10.5	18	26		1497200000		
	12			13	19	27.5		1497210000		
10	4	4.5	7	4.3	12	20	10	1496900000		
	5			5.3	12	21		1496910000		
	6			6.4	12	22.5		1496920000		
	8			8.4	15	25		1496930000		
	10			10.5	18	27		1496940000		
	12			13	20	28.5		1496950000		
16	5	5.5	8.5	5.3	12	25		1496970000		
	6			6.4	12	26.5		1496980000		
	8			8.4	15	29		1496990000		
	10			10.5	18	31		1497000000		
	12			13	19	32		1497010000		
	25	5	7	10	5.3	15	33.5	15	1495830000	
6				6.4	15	31.5		1496490000		
8				8.4	16	33		1496500000		
10				10.5	18	34.5		1496510000		
12				13	20	36		1496520000		
14				15	22	39		1496530000		

* UL not tested

Technical data

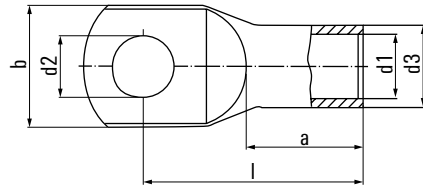
Machinery

Process

Energy

Transportation

Device
Manufacturers



Tubular cable lugs 35 – 300 mm², euro-series

Technical data

Material: Cu according to DIN EN 13600
 Surface: tin plated
 Approvals:



Ordering data

Cross section mm ²	flat hole M	dimensions in mm						weight 100 pcs./kg	Qty (pcs.)	Order No.	Tool recommendation	
		d1	d3	d2	b	l	a					
35	6	8.5	12	6.4	17	33	17	2.07	100	1496540000	PZ PK 6/70 + PZ RK 6/70	EPG 45 APG 80 + HPG 80, EPG 45 APG 55 + HPG 55
	8			8.4	17	34		2.18	100	1496550000		
	10			10.5	20	36.5		2.19	100	1496570000		
	12			13	22	37.5		2.33	100	1496580000		
50	6	10	14	6.4	20	37	19	3.01	100	1496590000		
	8			8.4	20	39		3.04	100	1496600000		
	10			10.5	20	40.5		3.13	100	1496610000		
	12			13	23	42		3.13	100	1496620000		
	14			15	23	44		3.51	100	1495750000		
	16			17	27	46		3.55	100	1496630000		
70	20			21	30.5	52.5		3.89	100	1495840000		
	6	12	16.5	6.4	24	40.5	21	4.11	25	1496640000		
	8			8.4	24	42.5		4.46	25	1496650000		
	10			10.5	24	43.5		4.64	25	1496670000		
	12			13	24	45		4.73	25	1495570000		
	14			15	25	46		4.91	25	1495770000		
95	16			17	28	48.5		4.96	25	1495580000		
	20			21	29	52		5.29	25	1495590000		
	6	13.5	18	6.4	26	43	23	4.95	25	1495820000		
	8			8.4	26	46		5.36	25	1495600000		
	10			10.5	26	47		5.51	25	1495610000		
	12			13	26	48		5.51	25	1495620000		
120	14			15	26	51.5		5.89	25	1495780000		
	16			17	28	51		5.85	25	1495630000		
	20			21	30	55		6.13	25	1495640000		
	8	15	20	8.4	29	49.5	26	6.88	25	1495790000		
	10			10.5	29	52		7.99	25	1495650000		
	12			13	29	51.5		7.84	25	1495670000		
150	14			15	30	53		7.86	25	1495800000		
	16			17	30	55		8.07	25	1495680000		
	20			21	35	60		8.90	25	1495690000		
	8	16.8	21.3	8.4	31	55.5	29	7.89	25	1495700000		
	10			10.5	31	56.5		8.37	25	1495710000		
	12			13	31	56		8.07	25	1495720000		
185	14			15	31	57		8.30	25	1495810000		
	16			17	31	58		8.36	25	1495730000		
	20			21	35	63		8.75	25	1495740000		
	8	19	24	8.4	35	58	30	10.37	25	1497290000*		
	10			10.5	35	59		10.61	25	1495430000		
	12			13	35	58.5		10.60	25	1495440000		
240	14			15	35	61		10.72	25	1497250000		
	16			17	35	63		10.86	25	1495450000		
	20			21	35	66		11.33	25	1495470000		
	8	21	26	8.4	38	67	35	12.40	25	1495480000*		
	10			10.5	38	67		12.97	25	1495490000		
	12			13	38	67		13.02	25	1495500000		
300	14			15	38	69		13.36	25	1497270000		
	16			17	38	69.5		13.56	25	1495510000		
	20			21	38	71		13.80	25	1495520000		
	10	24	30	10.5	44	79.5	42	20.45	20	1495530000*		
	12			13	44	82		21.18	20	1495540000		
	14			15	44	84		22.19	20	1497280000		
300	16			17	44	85		21.94	20	1495550000		
	20			21	44	85		22.40	20	1497240000		

* UL not tested

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Hydraulic battery crimping tool 45 kN

Battery-powered hydraulic compression hand-crimping tool for crimp cable lugs and connectors up to 150 mm².

- extremely quick processing due to a three-stage axial piston pump
- wide application range up to 150 mm²
- 270° revolving head with quick opening and closing
- because of a flap closure easy working also in places with difficult access
- automatic pressure limits and monitoring through pressure sensor
- engine shutdown and automatic retract after completed pressing
- electronic regulation and supervision of the press process
- manual retract
- save of all crimps and error messages on internal memory
- selections of all cycles and error messages about USB interface
- no uncompleted pressing cycles through ongoing monitoring of the rest battery cargo load
- controlled engine drive to the life extension of gearbox, engine and battery
- integrated service management and software updates about the USB interface
- fast tool return pipe through high return flow volume
- sleep-mode; maintenance indication and battery control
- integrated, intelligent electronics assembly with multifunctional LED
- mini-USB interface for all standard computer systems for:
 - Crimping force graph and error indication
 - Service Check up
- Li-Ion battery with charge level indicator: 18 V 1.5 Ah

EPG 45

6...150 mm²



Included in delivery

- Hydraulic tool including 1x battery and 1x battery charger
- Manual
- Software
- USB connection cable
- Carrying bag for tool and Crimping inserts



Technical data

Description of contact	
Press capacity / piston stroke	kN/mm

Tool data	
Length x width x height / weight	mm/kg
Note	

Ordering data

Version
Note

Accessories

Replacement battery - Li-Ion 18 V, 1.5 Ah
Note

EPG 45	
45 / 16	
Note	
370 x 123 x 80 / 2.3	

Type	Qty.	Order No.
EPG 45	1	1500830000
EPG 45 120 V	1	1508780000
Note		

Type	Qty.	Order No.
AKKU EPG 45	1	1500840000
Ladegerät EPG	1	1509370000
Ladegerät EPG 120 V	1	1509380000
Note		

Range of application	Ø mm ²
Crimping inserts WM-shape for euro-series	6 - 150
Hexagonal crimping inserts for compression cable lugs (DIN 46235) + connectors (DIN 46267)	6 - 150 (K5-K22)
Mandrel crimping inserts for compression terminals DIN 46234	6 - 50
Crimping inserts for insulated compression terminals	10 - 50
Crimping inserts square-shape for insulated and non insulated wire-end ferrules	6 - 50
Rounding crimping inserts for rounding sector-shaped copper and aluminium conductors	10 - 150

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	7	1500850000
10 / 70	7 / 5	1500870000
16 / 35	7 / 10	1500920000
25 / 50	12 / 5	1500880000
95	5	1500890000
120	5	1500900000
150*	5	on request

* only EPG 45



Crimping inserts hexagonal-shape

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1500930000
6/16	10/70	-/50	7/5	1500940000
8 /12	16/35	-/16+25	12/10	1500950000
10/14	25/50	10/35	12/5	1500970000
18	95	70	5	1500980000
20	120	-	5	1500990000
22	150*	-	5	on request

* only EPG 45



Indent Crimping inserts

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	6	1501290000
10	8	1501320000
16	10	1501330000
25	12	1501340000
35	12	1501350000
50	12	1501370000
70	12	1501380000



Crimping inserts

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1501000000
16	7	1501020000



Crimping inserts square-shape

- for insulated and non insulated wire-end ferrules
- crimping width 19 mm

Ordering data

mm ²	Crimp. width mm	Order No.
6	19	1501030000
10	19	1501040000
16	19	1501050000
25	19	1501070000
35	19	1501170000
50	19	1501180000



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Prerounding die sets

- for rounding sector-shaped copper and aluminium conductors crimping width: 12 mm

sm = stranded conductors

se = solid conductors

Ordering data

mm ² sm	mm ² se	Crimp. width mm	Order No.
10	-	12	1501190000
16	-	12	1501200000
25	35	12	1501220000
35	50	12	1501230000
50	70	12	1501240000
70	95	12	1501250000
95	120	12	1501270000
120	150	12	1501280000



Battery-powered compression tool APG 55

Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 240 mm².

- extremely quick processing due to a two-stage hydraulic pump
- 270° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- Pressure-relief-button in one-hand operation is able to press from both sides. (for right-and left handed persons)
- integrated overpressure valve, in case of wrong pressings, no damage of tools or inserts
- lithium-ion-battery without memory effect, self discharges very low
- high capacity due 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- universal usage: dies for all versions of cable lugs and connectors are available
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service intervall
 - mistake announcement at possible disturbances

APG 55

6...240 mm²



Included in delivery

- Battery-powered compression tool with battery and battery charger
- supporting loop for transport and safety
- transport plastic case



Technical data

Description of contact	
Press capacity	kN
Operating voltage	Volt
Battery charger	
Time of loading	

Tool data	
Length x width x height / weight	mm/kg
Note	

Ordering data

Version

Accessories

Replacement battery - Li-Ion 18 V, 1.5 Ah
Note

APG 55	
approx. 55	
14.4	
220-240V 50-60Hz 7.2-18V	
approx. 50 minutes	

95 x 350 x 310 mm / 3.6 kg (incl. battery)
--

Type	Qty.	Order No.
APG 55	1	1501390000
APG 55 120 V	1	1508790000

Type	Qty.	Order No.
Ersatz Akku APG	1	1502140000
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000



Hand-operated hydraulic crimping tool HPG 55

Hand-operated hydraulic crimping tool for crimping cable lugs and connectors up to 240 mm².

- extremely quick processing due to a two-stage hydraulic pump
- because of a flap closure easy working also in places with difficult access
- extremely light, handy and compact construction form
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available
- delivery completely transport plastic case

HPG 55

6...240 mm²



- 180° revolving head with quick opening and closing



Technical data

Description of contact	
Press capacity / piston stroke	kN/mm
Tool data	
Length / Weight	mm/kg
Note	

MTR 35	
approx. 55	
Tool data	
400 / 2.6	
Note	

Ordering data

Version	
Note	

Type	Qty.	Order No.
HPG 55	1	1501400000
Note		

Accessories

Type	
Note	

Type	Qty.	Order No.
Note		

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	7	1501420000
10 / 70	7 / 5	1501430000
16 / 35	7 / 5	1501440000
25 / 50	12 / 5	1501450000
95	5	1501470000
120	5	1501480000
150	5	1501490000
185	5	1501500000
240	5	1501520000

**Crimping inserts hexagonal-shape**

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1501530000
6/16	10/70	-/50	7/5	1501540000
8/12	16/35	-/16+25	12/5	1501550000
10/14	25/50	10/35	12/5	1501570000
18	95	70	5	1501580000
20	120	-	5	1501590000
22	150	95+120	5	1501600000
25	185	150	5	1501620000

**Indent Crimping inserts**

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	6	1501630000
10	8	1501640000
16	10	1501650000
25	12	1501670000
35	12	1501680000
50	12	1501690000
70	12	1501700000
95	12	1501720000
120	12	1501730000

**Crimping inserts**

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1501740000
16	7	1501750000
25	10	1501770000
35	10	1501780000
50	10	1501790000
70	7	1502250000

**Crimping inserts square-shape**

- for insulated and non insulated wire-end ferrules
- crimping width 19 mm

Ordering data

mm ²	Crimp. width mm	Order No.
6	19	1502270000
10	19	1502280000
16	19	1502290000
25	19	1502300000
35	19	1502320000
50	19	1502330000
70	19	1502340000
95	19	1502370000
120	19	1502380000



Battery-powered compression tool APG 80

Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 300 mm²
- 360° revolving head with quick opening and closing
- Pressure-relief-button in one-hand operation is able to press from both sides. (for right-and left handed persons)
- suitable for cutting cables up to 28 mm outside diameter
- integrated overpressure valve, in case of wrong pressings, no damage of tools or inserts
- lithium-ionen-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah-battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- universal usage: dies for all versions of cable lugs and connectors are available
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service intervall
 - mistake announcement at possible disturbances

APG 80

6...300 mm²



Included in delivery

- Battery-powered compression tool with battery and battery charger
- supporting loop for transport and safety
- transport plastic case



Technical data

Description of contact	
Press capacity	kN
Operating voltage	
Battery charger	
Time of loading	

Tool data	
Dimensions (w ^x l ^x h) / Weight	mm/kg
Note	

Ordering data

Version
Note

Accessories

Type	Qty.	Order No.
Ersatz Akku APG	1	1502140000
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000
Note		

APG 80		
approx. 80		
14.4 Volt		
220-240 V, 50-60 Hz, 7.2-18 V		
approx. 50 minutes		
Note		

95 x 406 x 310 / 5.4 (incl. battery)
Note

Type	Qty.	Order No.
APG 80	1	1502390000
APG 80 120 V	1	1508820000
Note		

Type	Qty.	Order No.
Ersatz Akku APG	1	1502140000
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000
Note		

Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

Hand-operated hydraulic compression tool HPG 80

hand-operated hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 300 mm²
- 360° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available

HPG 80

6...300 mm²



Included in delivery

- transport plastic case



Technical data

Description of contact	
Press capacity	kN
Tool data	
Dimensions (Length) / Weight	mm/kg
Note	

APG 80		
approx. 80		
550 / 5.3		

Ordering data

Version
Note

Type	Qty.	Order No.
APG 80	1	1502420000

Accessories

Type
Note

Type	Qty.	Order No.

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	7	1502430000
10	7	1502440000
16	7	1502470000
25	12	1502480000
35	12	1502490000
50	12	1502500000
70	12	1502520000
95	12	1502530000
120	12	1502540000
150	5	1502550000
185	5	1502570000
240	7	1502580000
300	7	1502590000

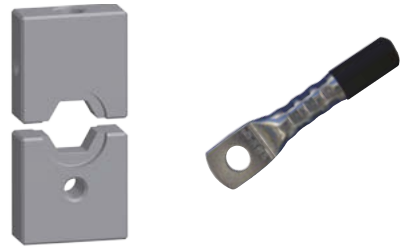


Crimping inserts hexagonal-shape

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1502600000
6	10	-	7	1502620000
8	16	-	12	1502630000
10	25	16	12	1502640000
12	35	25	12	1502650000
14	50	35	12	1502670000
16	70	50	12	1502680000
18	95	70	10	1502690000
20	120	-	10	1502700000
22	150	95 + 120	5	1502720000
25	185	150	5	1502730000
28	240	185	5	1502740000
32	300	240	7	1502750000
34	-	300	13	1502780000

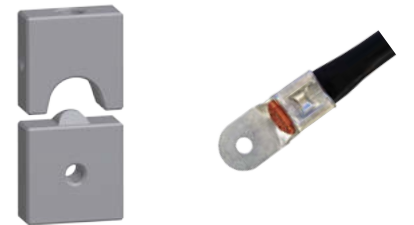


Indent Crimping inserts

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	6	1502820000
10	8	1502830000
16	10	1502840000
25	11	1502850000
35	11	1502870000
50	16	1502880000
70	16	1502890000
95	16	1502900000
120	16	1502790000
150	16	1502800000
185	8	1501800000
240	8	1501820000

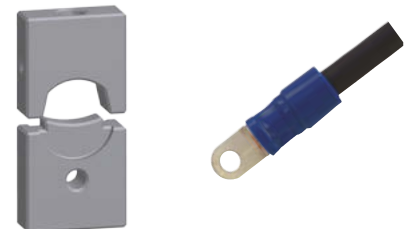


Crimping inserts

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1501830000
16	7	1501840000



Crimping inserts square-shape

- for insulated and non insulated wire-end ferrules
- crimping width 24 mm (10...120 mm²)
- crimping width 38 mm (150...240 mm²)

Ordering data

mm ²	Crimp. width mm	Order No.
10	24	1502000000
16	24	1502020000
25	24	1502030000
35	24	1502040000
50	24	1502050000
70	24	1502070000
95	24	1502080000
120	24	1502090000
150	38	1502100000
185	38	1502120000
240	38	1502130000



Prerounding die sets

- for rounding sector-shaped copper and aluminium conductors crimping width:

sm = stranded conductors
se = solid conductors

Ordering data

mm ² sm	mm ² se	Crimp. width mm	Order No.
10	-	16	1501850000
16	-	16	1501870000
25	35	16	1501880000
35	50	16	1501890000
50	70	16	1501900000
70	95	16	1501920000
95	120	16	1501930000
120	150	16	1501940000
150	185	16	1501970000
185	240	16	1501980000
240	300	16	1501990000



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

Battery-powered hydraulic cable cutter AKT 50

for cut of fine wiring aluminium and copper cables (without steel insertion) up to 50 mm outside diameter

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- Pressure-relief-button in one-hand operation is able to press from both sides. (for right-and left handed persons)
- lithium-ion-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah-battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service intervall
 - mistake announcement at possible disturbances

AKT 50

Ø 6 ... 50 mm



Included in delivery

- cable cutter, Battery, battery charger
- supporting loop for transport and safety
- transport plastic case



Technical data

Description of contact	
Cutting force	kN
Operating voltage	
Battery charger	
Time of loading	

Tool data	
Dimensions (w×l×h) / Weight	mm/kg
Note	

AKT 50		
approx. 60		
14,4 Volt		
220-240 V, 50-60 Hz, 7.2-18 V		
approx. 50 minutes		

95 x 465 x 310 / 4.9 (incl. battery)		
Note		

Ordering data

Version
Note

Type	Qty.	Order No.
AKT 50	1	1502190000
Note		

Accessories

Note

Type	Qty.	Order No.
Note		

Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

AKKU APG**Technical data**

Replacement battery - Li-Ion	14.4 V, 3.0 Ah
Weight	0.56 kg

Ordering data

Type	Qty.	Order No.
Battery APG	1	1502140000

BATTERY CHARGER APG

Standard-battery charger	220-240 V	50-60 Hz
Voltage range	7.2-18 V	
Time of loading	approx. 50 minutes	
Weight	0.55 kg	

Ordering data

Type	Qty.	Order No.
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000

AKKU EPG 45

Replacement battery - Li-Ion for Stilo 1 and Stilo Cut 50	18 V, 1.5 Ah
Weight	0.41 kg

Ordering data

Type	Qty.	Order No.
AKKU EPG 45	1	1500840000

BATTERY CHARGER EPG

Standard-Battery charger	220-240 V	50-60 Hz
Voltage range	7.2-18 V	
Time of loading	approx. 50 minutes	
Weight	0.55 kg	

Ordering data

Type	Qty.	Order No.
Ladegerät EPG	1	1509370000
Ladegerät EPG 120 V	1	1509380000



Digital voltage testers

- LCD display including bar chart
- One-hand testing is possible
- Protection for test probe
- Continuity test
- Low-battery indicator
- HOLD function
- Backlit illumination
- Polarity detection
- Single-pole phase test is possible
- Battery included
- Incl. battery compartment opener
- Large display
- Light sensor
- IP 65

Digi-Check Pro

Digital voltage tester



- Test probe illumination
- Selectable load for residual current test
- Phase sequence indicator
- Frequency measurement
- Buzzer included
- Case included

Digi-Check

Digital voltage tester



- Test probe illumination
- Frequency measurement
- Buzzer included
- Battery compartment opener included
- Battery included



Technical data

Nominal voltage
Input resistance, voltage
Peak voltage resistance
Frequency range, min.
Measuring range category
Display
Operating temperature, min.
Protection degree
Approvals
Weight
Note

DIGI CHECK PRO
0.30 V...690 V AC/DC
On operating the double switch ≥ 300 k Ω
8 kV
0...100 Hz
CATIV - 400V/ CAT III - 690V
LCD
-15...45 °C
IP 65
EN/IEC 61243-3 :2010-10 (VDE 0682 Part 401)
290 g
Buzzer included

DIGI CHECK
0.30 V...690 V AC/DC
≥ 300 k Ω
8 kV
0...100 Hz
CATIV - 400V/ CAT III - 690V
LCD
-15...45 °C
IP 65
EN/IEC 61010-1
290 g
Buzzer included

Ordering data

Version
Note

Type	Qty.	Order No.
DIGI CHECK PRO	1	9918870000
Digi Check Pro 2MM	1	9201580000
Protective case included		

Type	Qty.	Order No.
DIGI CHECK	1	9918850000
Digi Check 2MM	1	9201590000

Accessories

Note

Type	Qty.	Order No.
SKAI POUCH	1	9201520000
BATTERY 1.5 V (AAA)	2	9201310000
BAT-DE	1	1332410000
PRSPSU	1	1332420000

Type	Qty.	Order No.
SKAI POUCH	1	9201520000
BATTERY 1.5 V (AAA)	2	9201310000
BAT-DE	1	1332410000
PRSPSU	1	1332420000

Multi-Check

Digital voltage tester



MULTI CHECK

5 V...500 V AC/DC

≥ 300 kΩ

8 kV

0...100 Hz

CAT IV - 400V/ CAT III - 500V

LCD

-15...45 °C

IP 65

EN/IEC 61243-3 :2010-10 (VDE 0682 Part 401)

290 g

Type	Qty.	Order No.
MULTI CHECK	1	9918920000
Multi Check 2MM	1	9201570000

Type	Qty.	Order No.
SKAI POUCH	1	9201520000
BATTERY 1.5 V (AAA)	2	9201310000
BAT-DE	1	1332410000
PRSPSU	1	1332420000



Master-Check

2-pole voltage tester



- Battery compartment opener included
- Batteries included



MASTER-CHECK
6 V...400 V AC/DC
8 kV
0...100 Hz
CATIV - 400V/ CAT III - 400V
LED
-15...45 °C
IP 65
EN/IEC 61243-3 (VDE 0682 Part 401)
290 g

Type	Qty.	Order No.
MASTER CHECK	1	9918880000
Master Check 2MM	1	9201260000

Type	Qty.	Order No.
SKAI POUCH	1	9201520000
BATTERY 1.5 V (AAA)	2	9201310000
BAT-DE	1	1332410000
PRSPSU	1	1332420000



ClipCard MultiCard

CC 85/27

27 mm



Technical data

Material	Polyamide 66
UL 94 flammability rating	V-2
Ambient temperature (operational)	-40 °C...60 °C
Application/manufacturer	Self-adhesive
Width	27 mm
Length	85 mm

Ordering data

MultiCard Blank	Type	Qty.	Order No.
Yellow ●	CC 85/27 MC NE GE	20	1520940000
Grey ●	CC 85/27 MC NE GR	20	1520970000
White ○	CC 85/27 MC NE WS	20	1520930000
MultiCard custom printing			
To customer specification	CC 85/27 MC SDR	20	1525850000
MultiCard Blank, self adhesive			
Yellow ●	CC 85/27 K MC NE GE	20	1526120000
Grey ●	CC 85/27 K MC NE GR	20	1526130000
White ○	CC 85/27 K MC NE WS	20	1526100000
MultiCard Blank, self adhesive, custom printing			
To customer specification	CC 85/27 K MC SDR	20	1526140000

Accessories

Type	Qty.	Order No.
LOGIMARKHALTER 1/2 GRAU	40	1675130002
LOGIMARKHALTER 1/2 SW	40	1675130001

Technical drawing / application



Technical data

Machinery

Process

Energy

Transportation

Device
Manufacturers

ESG MultiCard

ESG 9/26 SCM ECO

26 mm



Technical data

Material	Polyamide 66
UL 94 flammability rating	V-2
Ambient temperature (operational)	-40 °C...100 °C
Application/manufacturer	Weidmüller
Width	26 mm
Length	9 mm

Material	Polyamide 66
UL 94 flammability rating	V-2
Ambient temperature (operational)	-40 °C...100 °C
Application/manufacturer	Weidmüller
Width	26 mm
Length	9 mm

Ordering data

MultiCard Blank	
Yellow	●
Grey	●
White	○
MultiCard custom printing	
To customer specification	

Type	Qty.	Order No.
ESG 9/26 SCM ECO MC NE GE	80	1520990000
ESG 9/26 SCM ECO MC NE GR	80	1521000000
ESG 9/26 SCM ECO MC NE WS	80	1520980000
ESG 9/26 SCM ECO MC SDR	80	1525800000

Technical drawing / application



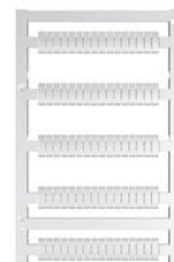
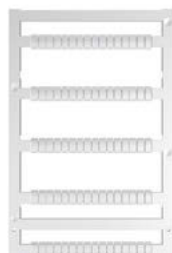
MF MultiCard

MF 5/3.5

3.5 mm

MF-W 9/3.5

3.5 mm



Technical data

Material
UL 94 flammability rating
Ambient temperature (operational)
Application/manufacturer
Width
Length

Polyamide 66
V-2
-40 °C...100 °C
Phoenix
3.5 mm
5 mm

Polyamide 66
V-2
-40 °C...100 °C
WAGO
3.5 mm
9 mm

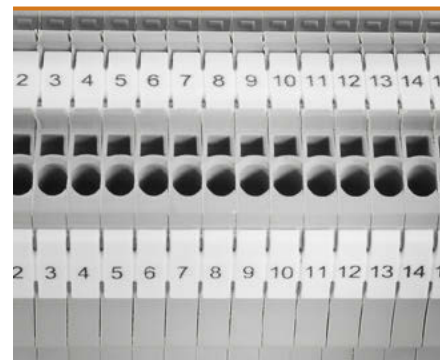
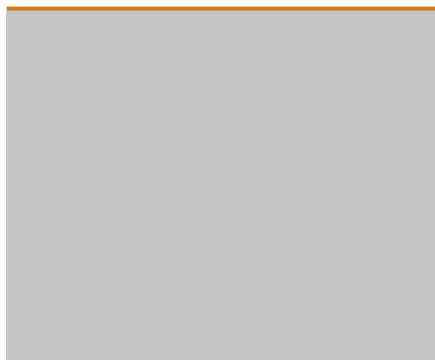
Ordering data

Width	Colour
MultiCard Blank	
3.5 mm	○ White
MultiCard custom printing	
3.5 mm	To customer specification

Type	Qty.	Order No.
MF 5/3.5 MC NE WS	800	1521010000
MF 5/3.5 MC SDR	800	1525840000

Type	Qty.	Order No.
MF-W 9/3.5F MC NE WS	800	1521040000
MF-W 9/3.5F MC SDR	800	1525830000

Technical drawing / application



Technical data

Machinery

Process

Energy

Transportation

Device Manufacturers

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ACT20X-2HAI-2SA0-S	8965440000	T.152
ACT20X-2HDI-2SDO-RNC-S	8965380000	T.157
ACT20X-2HDI-2SDO-RNO-S	8965370000	T.157
ACT20X-2HDI-2SDO-S	8965390000	T.158
ACT20X-2HTI-2SA0-S	8965480000	T.154
ACT20X-2SAI-2HA0-S	8965460000	T.153
ACT20X-2SDI-2HDO-S	8965420000	T.159
ACT20X-HAI-2SA0-S	8965430000	T.152
ACT20X-HDI-2SDO-RNC-S	8965350000	T.157
ACT20X-HDI-2SDO-RNO-S	8965340000	T.157
ACT20X-HDI-2SDO-S	8965360000	T.158
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1844140000	BLT 5.08HC/17/180F SN OR BX	T.223
1844150000	BLT 5.08HC/18/180F SN OR BX	T.223
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1844170000	BLT 5.08HC/20/180F SN OR BX	T.223
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1844190000	BLT 5.08HC/22/180F SN OR BX	T.223
1844200000	BLT 5.08HC/23/180F SN OR BX	T.223
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1894150000	BLT 5.08HC/04/180LR SN BK BX	T.223
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9918850000	DIGI CHECK	T.248
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9918880000	MASTER CHECK	T.251
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