

## Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

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Power distributor, application: Power supply, connection method: M12 socket Metal, number of slots: 4, number of positions: 4, coding: T power, slot assignment: single, status display: yes, Universal; master cable connection: Plug-in master cable connection 90°, shielding: no, Diagnostics port, M12, A-coded, 12-pos.

### Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Flexible: distributor box with connector hood for on-site assembly

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 920254
GTIN	4046356920254
Weight per Piece (excluding packing)	600.000 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### General

Rated voltage	24 V DC
Max. operating voltage $U_{max}$	30.5 V DC
Current carrying capacity per I/O signal	10 A (M12 diagnostic socket for each channel max. 50 mA)
Current carrying capacity per slot	2x 9.25 A (at 40 °C)
Total rated current	70 A (at 40°C, observe the distribution of the current paths under load)
Protective circuit	Overload protection for the outputs Fuse in header
Number of positions	4

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## Technical data

### General

Number of slots	4
Flammability rating according to UL 94	V0
Sensor/actuator connection system	M12 socket
Note	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

### Ambient conditions

Degree of protection	IP66
	IP67
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C

### Local diagnostics function

Local diagnostics	Supply voltage per module Green LED
	Status display I/O Yellow LED

### Master cable data/connection data

Connection method	Plug-in master cable connection
Conductor cross section min. (energy)	2.5 mm <sup>2</sup>
Conductor cross section max. (energy)	6 mm <sup>2</sup>
Conductor cross section AWG min. (energy)	14
Conductor cross section AWG max. (energy)	10
External cable diameter min.	9 mm
External cable diameter max.	15.5 mm
Tightening torque, cover screw	0.6 Nm
Tightening torque, union nut	5 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm

### Insulation material

Housing material	PBT
Material of the moulding mass	PUR
Contact material	Cu alloy
Contact surface material	pre-nickel plated, gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of contact surface, master cable side	Silver-plated
Material of the contact carrier on the master cable side	PC

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### Technical data

#### Insulation material

Material of threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	Nickel-plated
Sealing material	Viton (M12 socket)
	NBR (Master cable side)

#### Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-111
	Shock, vibration EN 60068-2-6 EN 60068-2-27 EN 60068-2-64
Flammability rating according to UL 94	V0

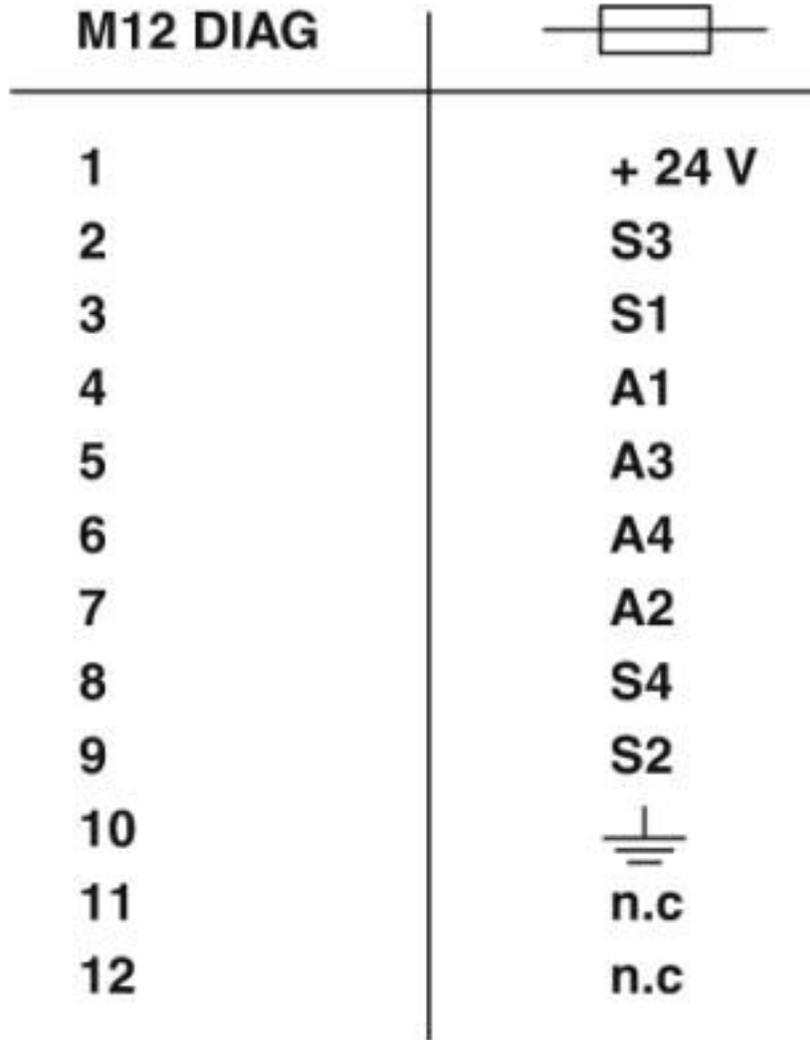
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

# Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

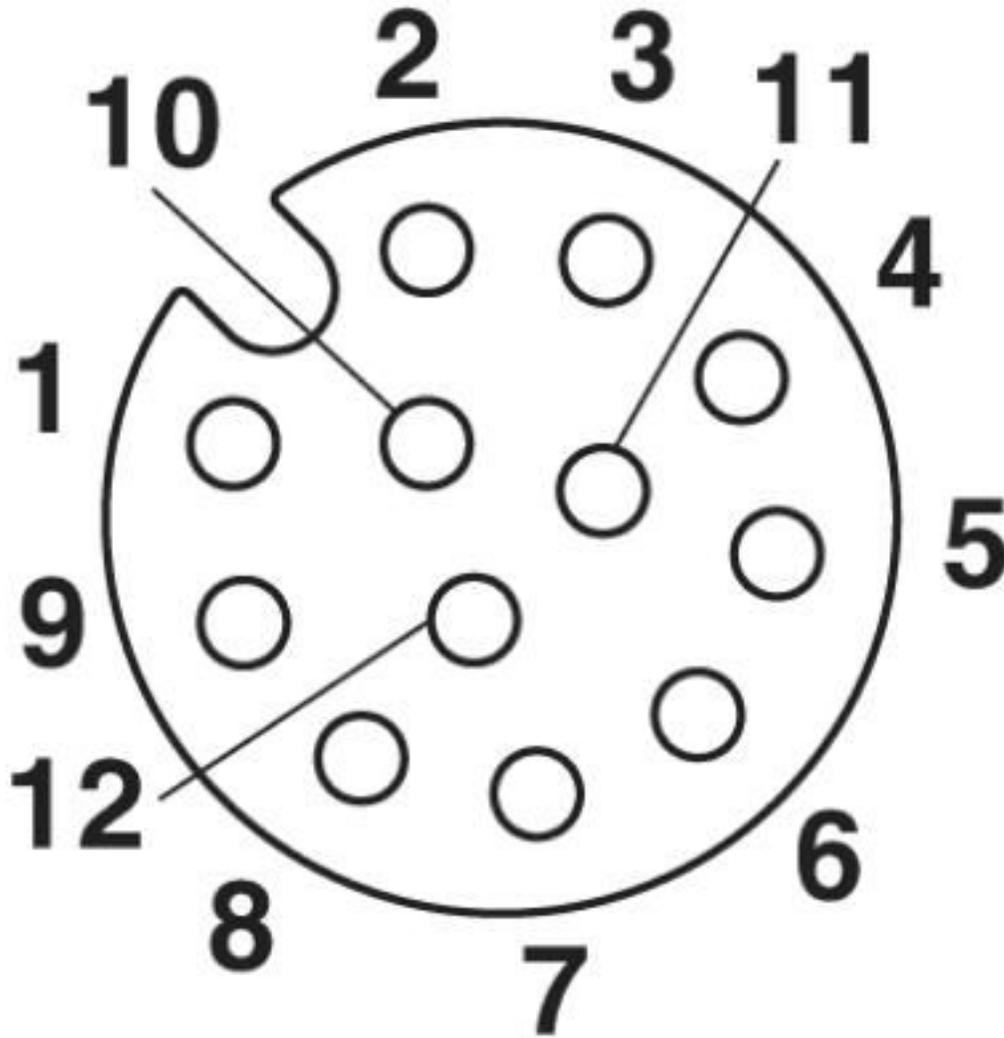
Connection diagram



The fuses for the individual current paths can be monitored via the M12 diagnostics interface. Monitoring is via optocouplers and is therefore electrically isolated from the power distribution.

# Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

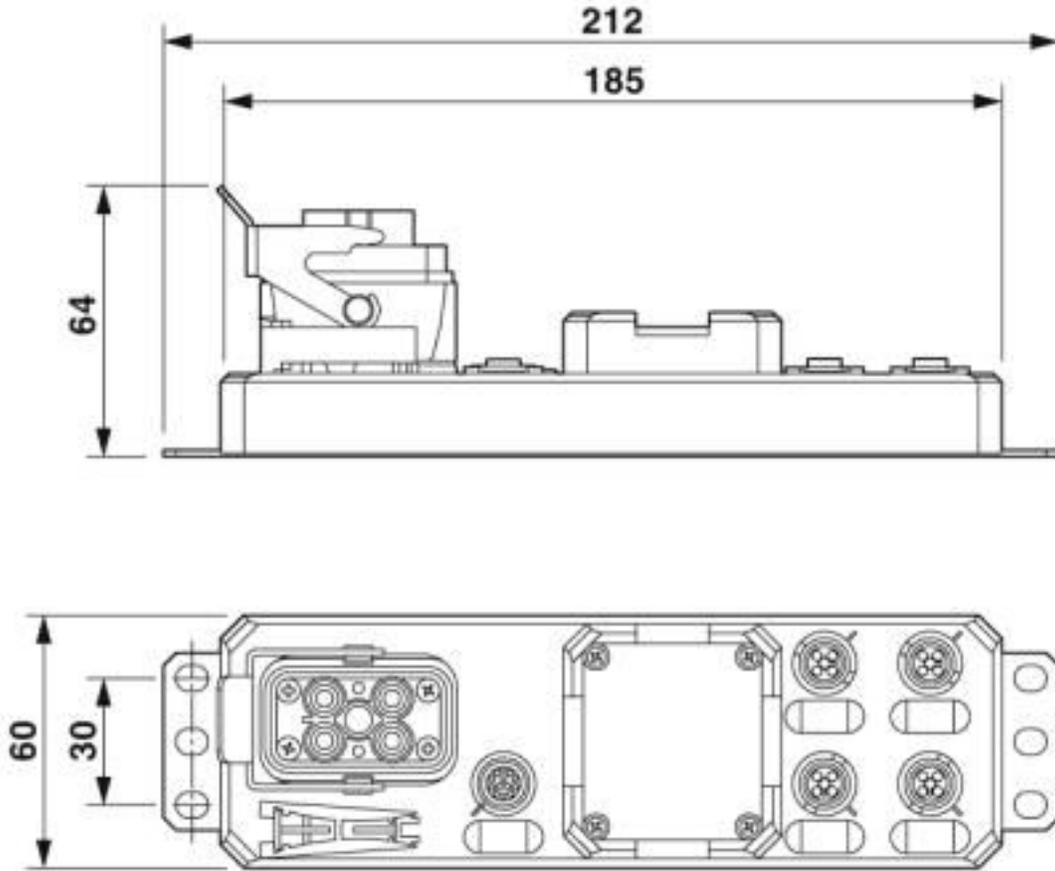
Schematic diagram



Pin assignment of M12 socket, 12-pos., A-coded, view of socket side, assignment: see connection drawing

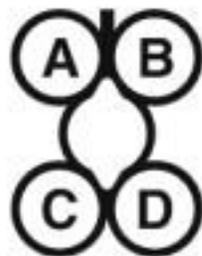
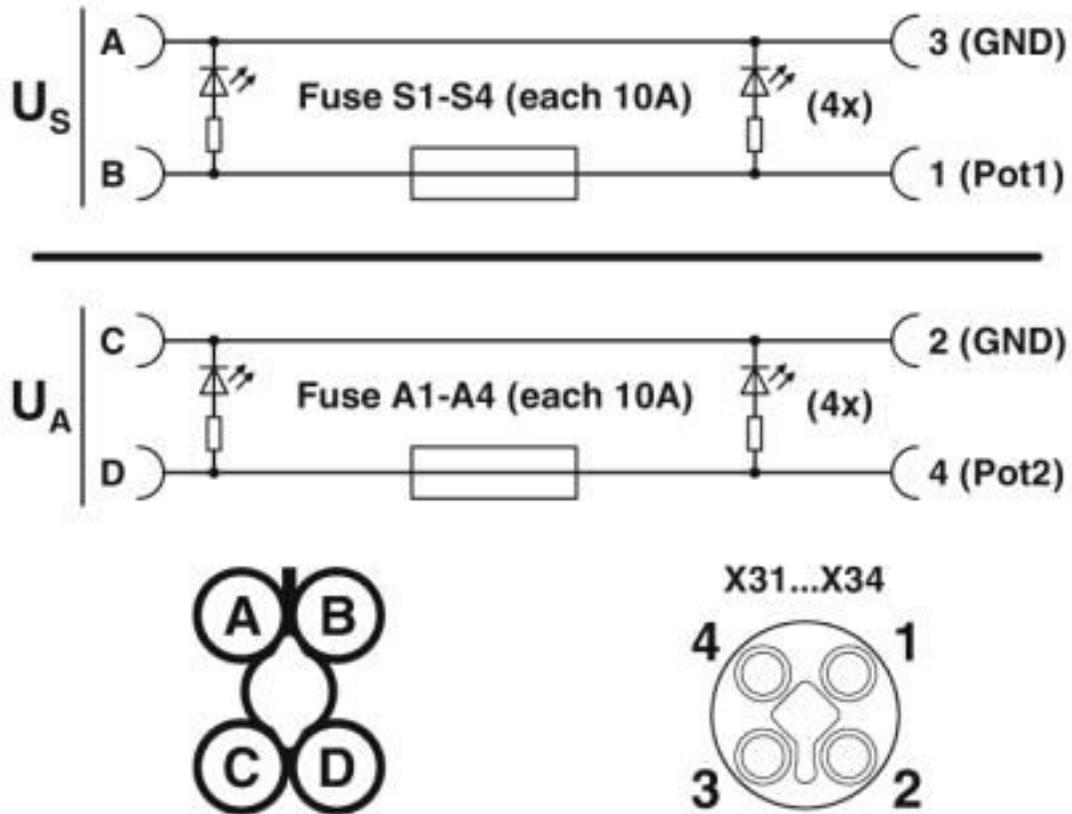
# Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

Dimensional drawing

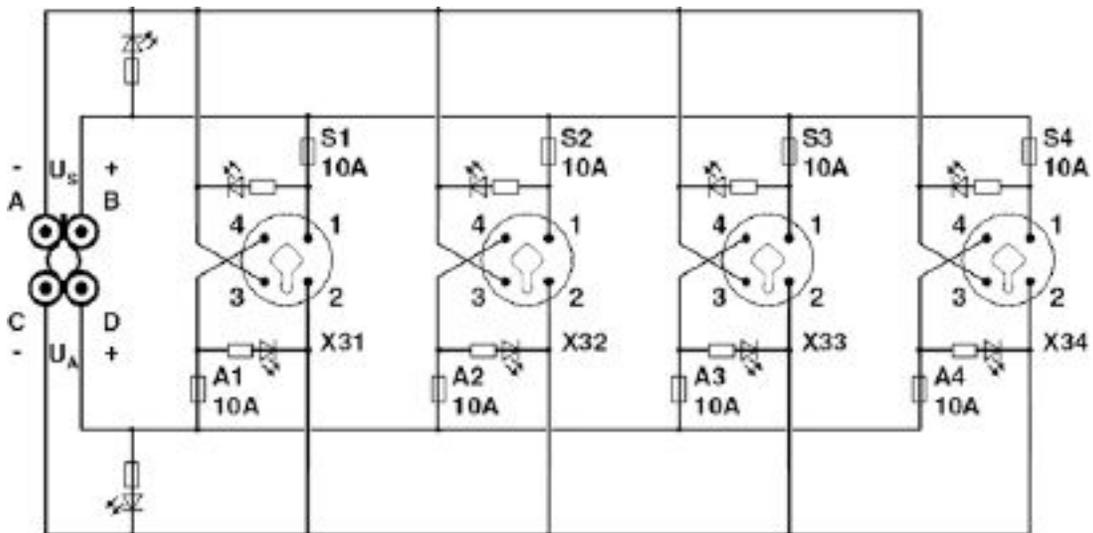


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Circuit diagram

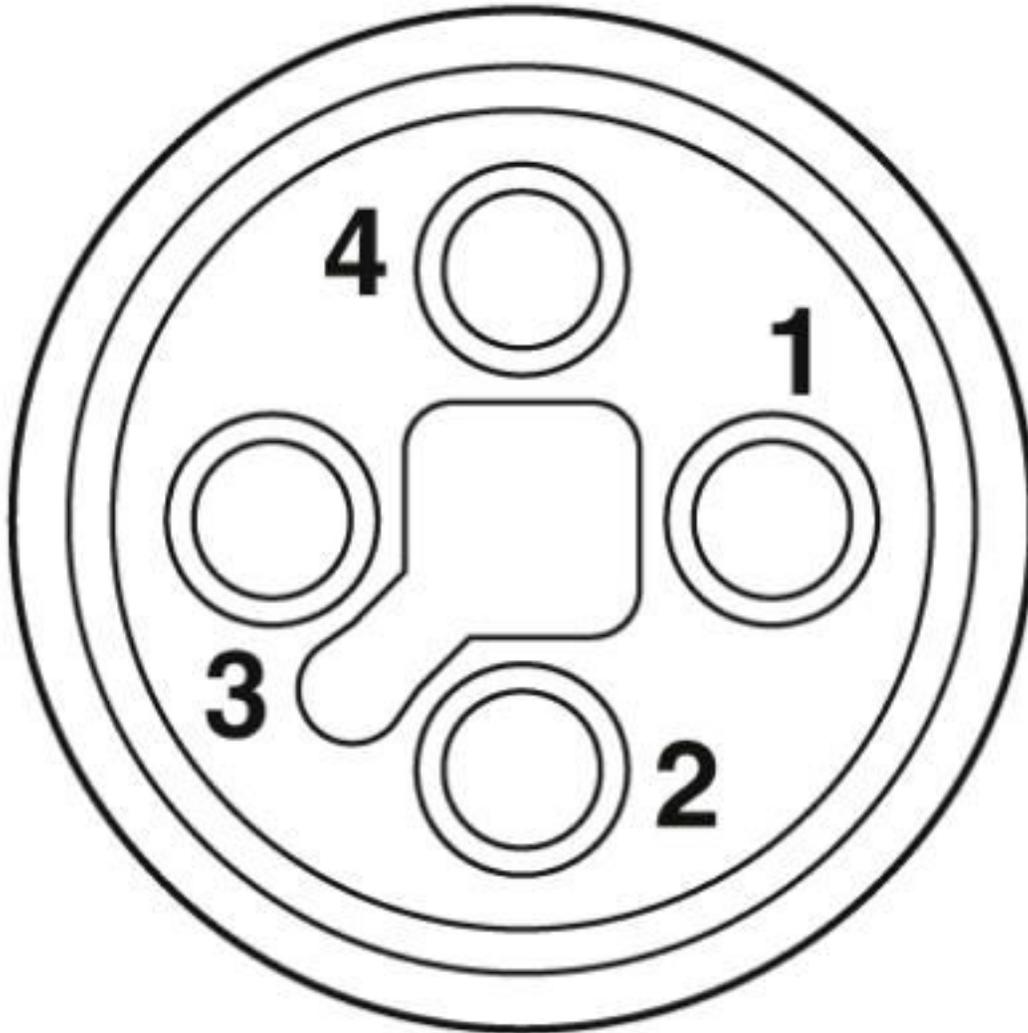


Circuit diagram



# Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

## Classifications

eCl@ss

eCl@ss 10.0.1	27440108
eCl@ss 5.1	27250300
eCl@ss 6.0	27279200
eCl@ss 7.0	27279219
eCl@ss 8.0	27279219

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## Classifications

eCl@ss

eCl@ss 9.0	27440108
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ETIM

ETIM 5.0	EC002585
ETIM 6.0	EC002585
ETIM 7.0	EC002585

UNSPSC

UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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Approval details

EAC		RU C- DE.BL08.B.00511
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## Accessories

Accessories

Circular connector (cable-side)

## Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

### Accessories

#### Power connectors - SACC-M12MST-3PECON-PG11-M - 1404643



Power connectors, Power, 4-position, unshielded, Plug straight M12, Coding: T, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 mm, For direct current up to 12 A/63 V, Contact 4 leading

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#### Power connectors - SACC-M12MRT-4CON-PG11-M - 1408988



Power connectors, 4-position, Plug angled M12, Coding: T, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 mm, For direct current up to 12 A/63 V, Contact 4 leading

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### Crimping tool

#### Crimping pliers - CRIMPFOX-TC 10 - 1212114



Crimping pliers, for turned contacts with a pin diameter of 4.0 mm, two marked die stations, pressure lock can be released, lateral entry, incl. positioning help

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#### Crimping pliers - CRIMPFOX-TC 4 - 1212113



Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

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### Device marking

#### Snap-in markers - UCT-EM (7X10) - 0830765



Snap-in markers, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped into marker carrier, lettering field size: 7 x 10 mm, Number of individual labels: 30

## Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

### Accessories

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#### Plug for cable screw gland

Screw plug - PROT-MS SCO - 1553129



#### Power cable

Power cable - SAC-4P-M12MST/ 1,0-PUR/M12FST - 1408808



Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: T, on Socket straight M12, coding: T, cable length: 1 m, For direct current up to 12 A/63 V

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#### Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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Tool - SACC BIT M12-D20 - 1208445



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

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## Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

### Accessories

Philips screwdriver - SZK PZ1 VDE - 1206450



Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip

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### Sensor/actuator cable

Sensor/actuator cable - SAC-12P-MS/10,0-PVC SCO - 1554801



Sensor/actuator cable, 12-position, PVC, black RAL 9005, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 10 m

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### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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### Necessary add-on products

Crimp contact - CK4,0-ED-6,00BU AG - 1663307



Turned 4.0 crimp contact, individual female contact, core diameter 6.00 mm<sup>2</sup>, silver-plated

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### Accessories

Crimp contact - CK4,0-ED-4,00BU AG - 1663297



Turned 4.0 crimp contact, individual female contact, core diameter 4.00 mm<sup>2</sup>, silver-plated

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Crimp contact - CK4,0-ED-2,50BU AG - 1663284



Turned 4.0 crimp contact, individual female contact, core diameter 2.50 mm<sup>2</sup>, silver-plated

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Contact insert - HC-COM- 4/2-EBUC - 1408517



HEAVYCON crimp contact insert for compact plastic housing, socket version; 4-pos. + PE supply circuit, 2-pos. control circuit

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Housing - HC-COM-K-TFL-O1PG16-S - 1408339



Sleeve housing for single locking engagement nose, lateral cable outlet, for HC-COM-K-KV-PG16 screw connections...

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Housing - HC-COM-K-TFL-O1PG16-G - 1408342



Sleeve housing for single locking engagement nose, straight cable outlet, for HC-COM-K-KV-PG16 screw connections...

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## Power distributor - SACB-4/T-L-8FUSE DIAG CT AXL - 1411048

### Accessories

Cable gland - VC-K-KV-PG16(11,5-15,5) - 1854844



Half screw connection Pg16, made of plastic, consisting of rubber seal with one hole and one pressure screw, for type 1 housings, cable [mm] 11.5 - 15.5

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Cable gland - VC-K-KV-PG16( 9-13) - 1853764



Half screw connection Pg16, made of plastic, consisting of rubber seal with one hole and one pressure screw, for type 1 housings, cable [mm] 9 - 13

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