

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



1411048

<https://www.phoenixcontact.com/us/products/1411048>

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Power distributor, application: Energy supply, connection method: M12 socket Metal, number of slots: 4, number of positions: 4, coding: T, 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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1411048 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF44 |
| Product key | AF3ECC |
| GTIN | 4046356920254 |
| Weight per piece (including packing) | 598.25 g |
| Weight per piece (excluding packing) | 552.88 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|---------------------|---|
| Assembly note | NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties. |
| Note on application | Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories". |

Product properties

| | |
|---------------------|-----------------|
| Product type | Distributor box |
| Application | Energy supply |
| Number of positions | 4 |
| Number of slots | 4 |
| Coding | T |

System properties

Local diagnostics

| | |
|------------------------|---------------------------|
| Monitored function | Supply voltage per module |
| Optical representation | Green LED |

Electrical properties

| | |
|---|---|
| Max. operating voltage U_{max} | 30.5 V DC |
| Local diagnostics | Supply voltage per module Green LED |
| | Status display I/O Yellow LED |
| Nominal voltage U_N | 24 V DC |
| Rated current, total | 70 A (at 40 °C, observe the distribution of the current paths under load) |
| Protective circuit | Overload protection for the outputs; Fuse in header |
| Max. current carrying capacity per path | 10 A (M12 diagnostic socket for each channel max. 50 mA) |
| Current carrying capacity per slot | 2x 9.25 A (at 40 °C) |

Connection data

Conductor connection

| | |
|--|---|
| Sensor/actuator connection system | M12 socket |
| Conductor cross-section Flexible power supply | 2.5 mm ² ... 6 mm ² |
| Connection cross section AWG Flexible power supply | 14 ... 10 |
| Tightening torque, cover screw | 0.6 Nm |
| Tightening torque slot sensor/actuator cable | 0.4 Nm |
| Tightening torque, union nut | 5 Nm |

Signaling

| | |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

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Dimensions

| | |
|---------------------|--------|
| Dimensional drawing | |
| Width | 60 mm |
| Height | 52 mm |
| Length | 212 mm |

Material specifications

| | |
|--|--------------------------------|
| Material Threaded sleeve | Die-cast zinc |
| Material Housing | PBT |
| Material Molding compound | PUR |
| Flammability rating according to UL 94 | V0 |
| Seal material | Viton NBR |
| 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 the contact carrier on the master cable side | PC |
| Material of contact surface, master cable side | Silver-plated |

Cable/line

| | |
|-------------------------|---------------------------------|
| External cable diameter | 9 mm ... 15.5 mm |
| Connection method | Plug-in master cable connection |

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

| | |
|--------------------------|-------------------------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-111 |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 60068-2-6 EN 60068-2-27 |

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EN 60068-2-64

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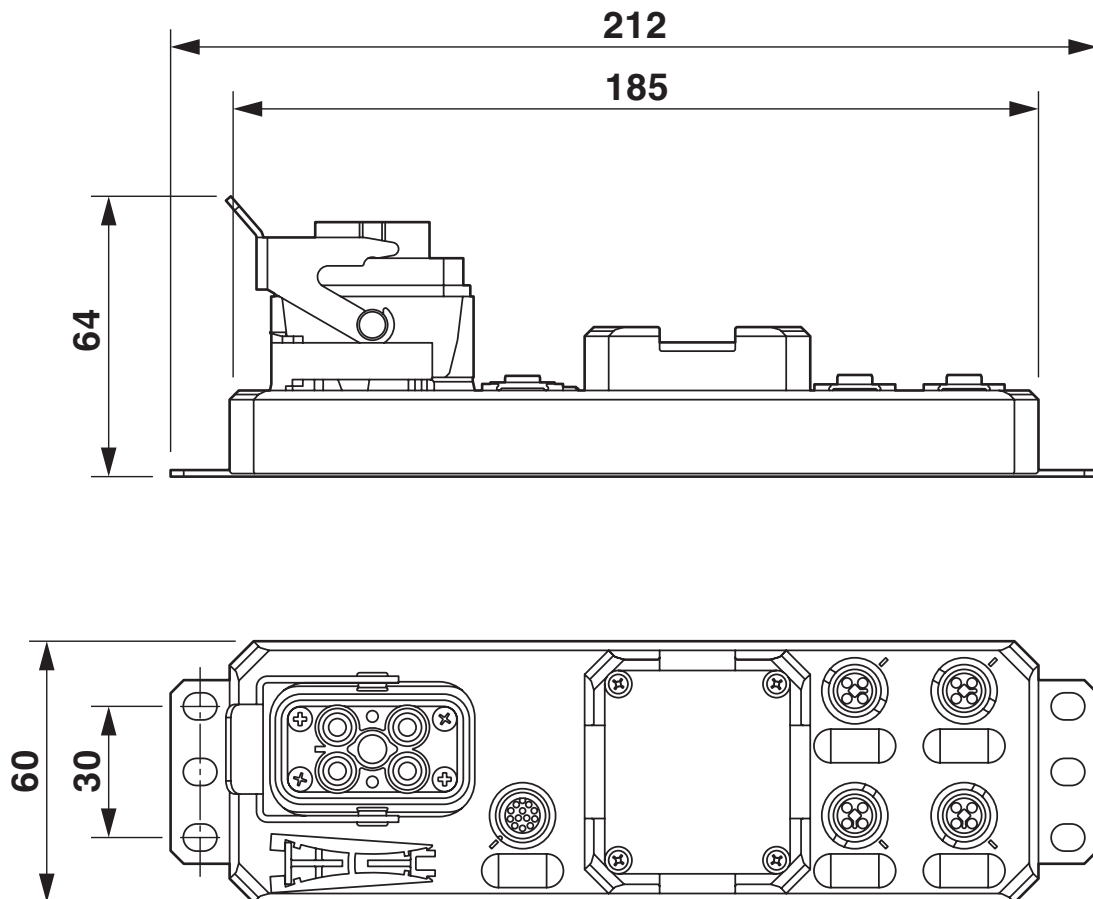


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Drawings


Dimensional drawing



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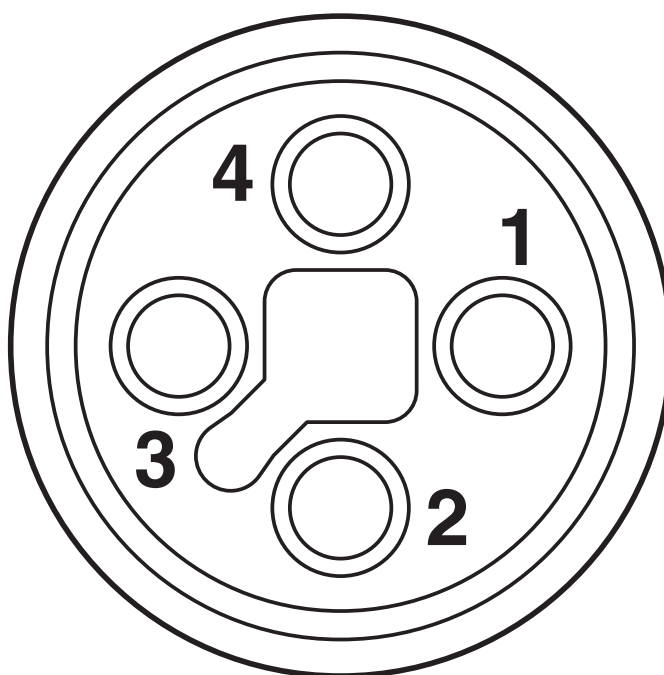
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Connection diagram

| M12 DIAG | |
|----------|---|
| 1 | + 24 V |
| 2 | S3 |
| 3 | S1 |
| 4 | A1 |
| 5 | A3 |
| 6 | A4 |
| 7 | A2 |
| 8 | S4 |
| 9 | S2 |
| 10 |  |
| 11 | n.c |
| 12 | n.c |

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.

Schematic diagram



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

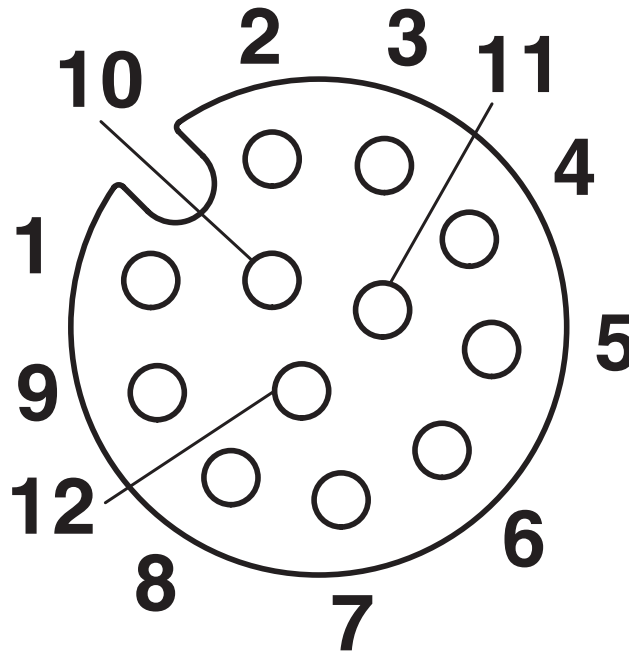
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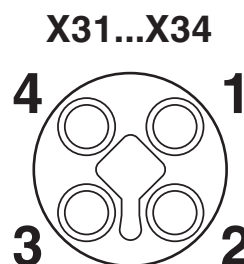
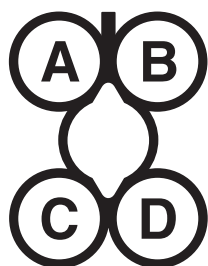
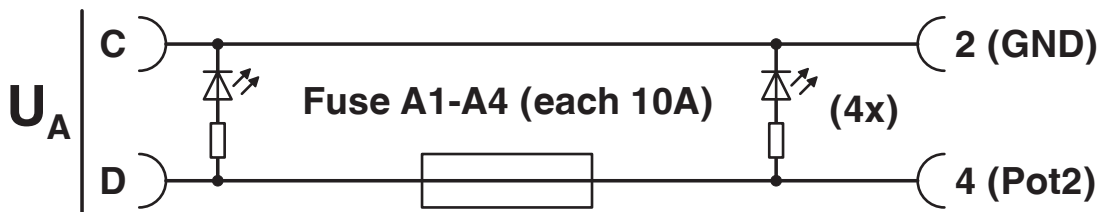
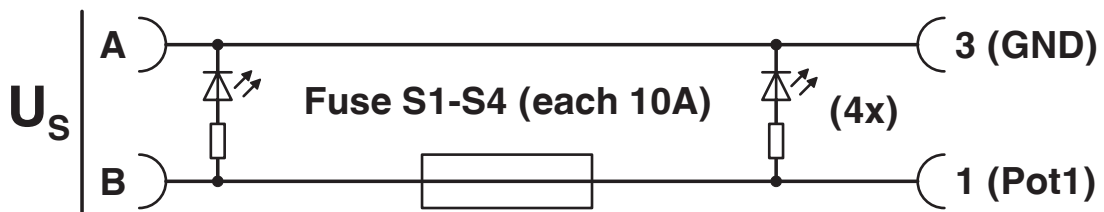
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Schematic diagram



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

Circuit diagram



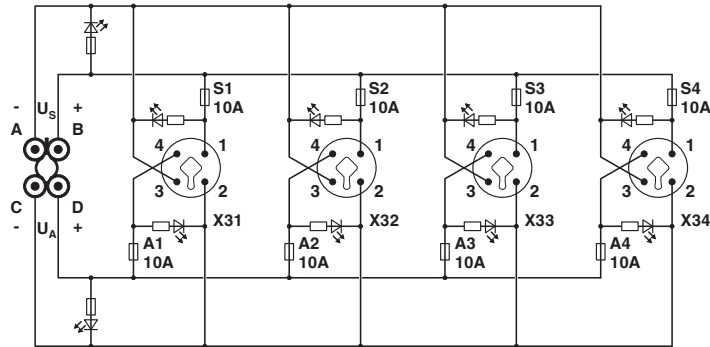
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Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440111 |
| ECLASS-15.0 | 27440111 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003558 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 013a833b-1933-48e7-a832-941a0712eddd |

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