

# 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	<b>NOTE:</b> 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 <sup>2</sup> ... 6 mm <sup>2</sup>
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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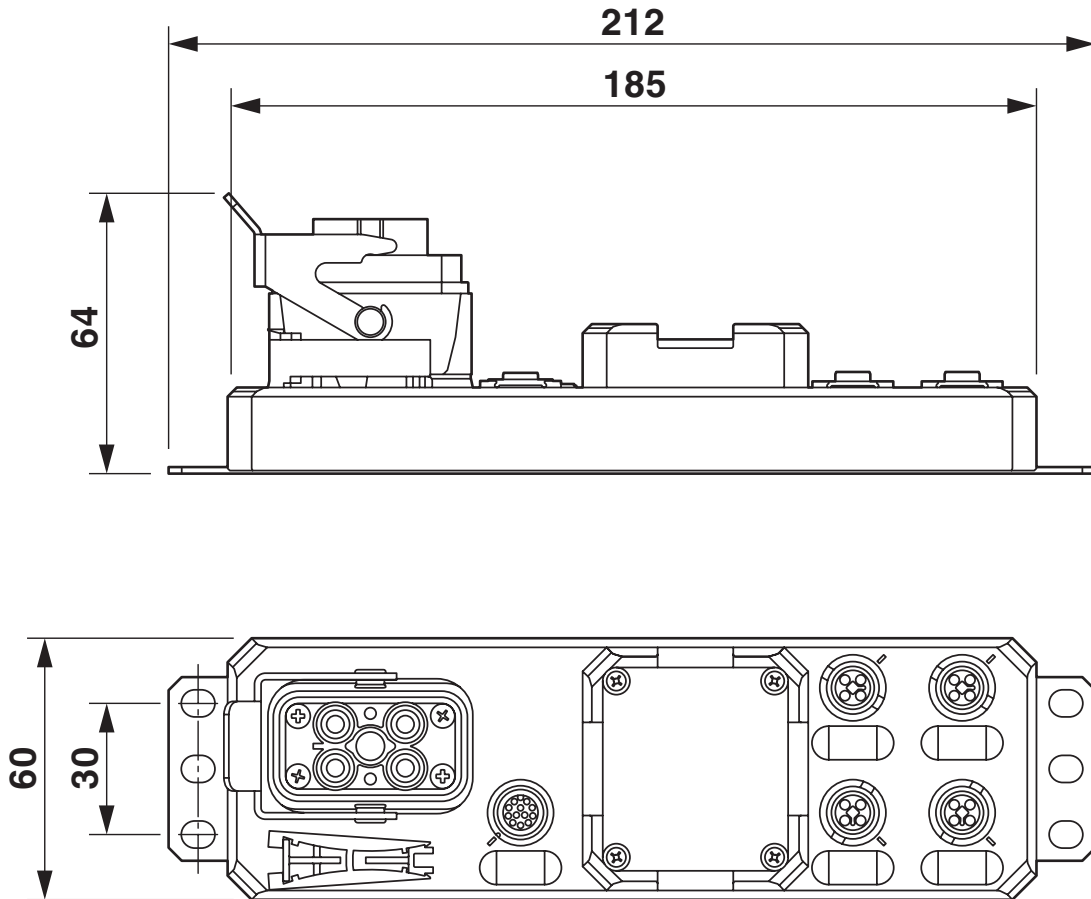


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## Drawings


Dimensional drawing



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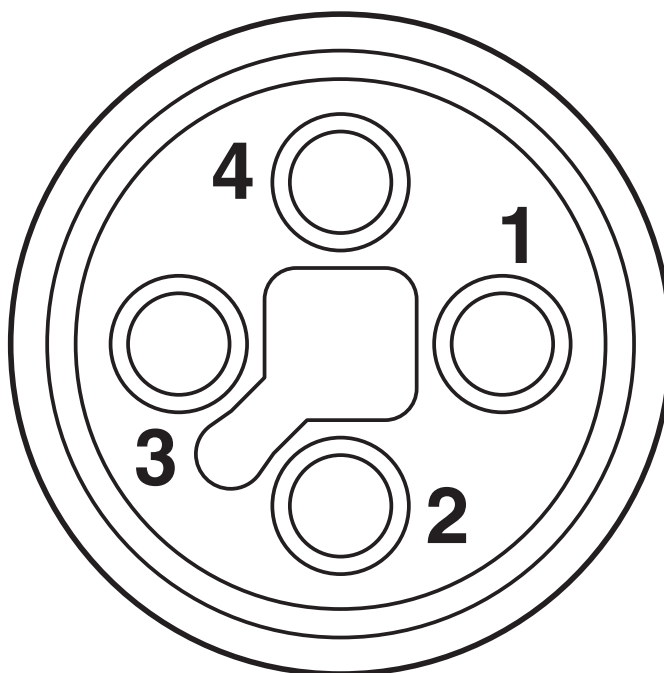
<https://www.phoenixcontact.com/us/products/1411048>

### 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

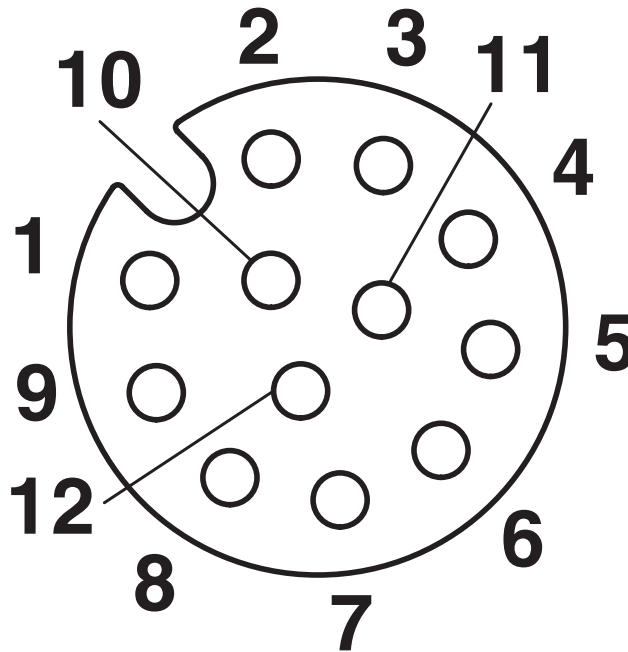
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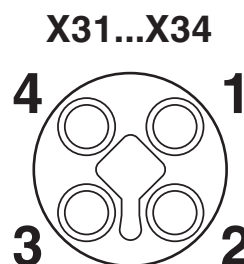
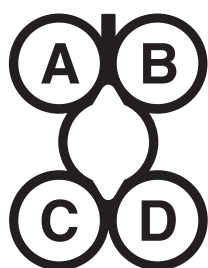
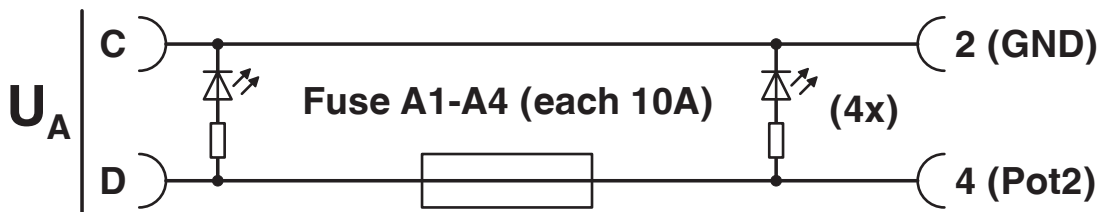
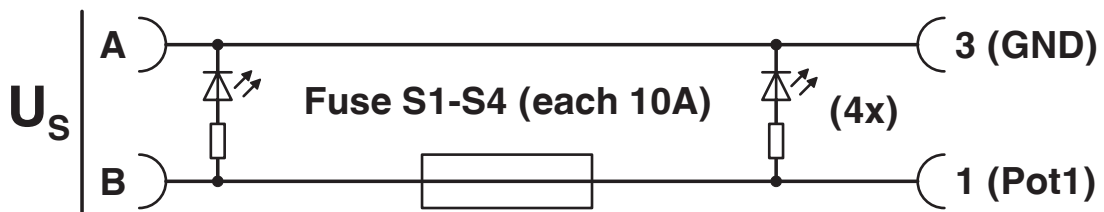
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Schematic diagram



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

Circuit diagram



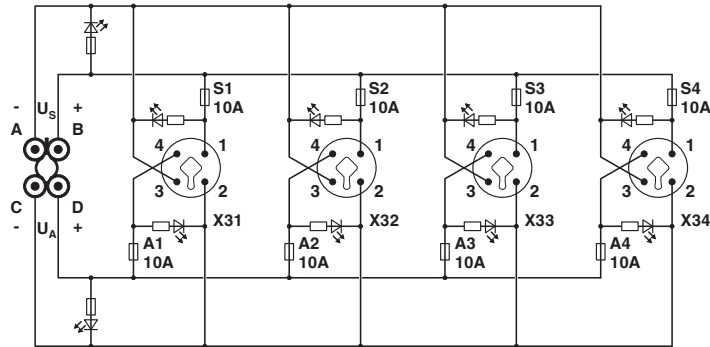
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27440111
ECLASS-15.0	27440111

### ETIM

ETIM 10.0	EC003558
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### 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)