

SACB-8/ 8-L-C SCO P - Distributor box



1452848

<https://www.phoenixcontact.com/us/products/1452848>

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Distributor box, application: Standard, connection method: M12 socket Plastic, number of slots: 8, number of positions: 4, coding: A, slot assignment: single, status display: yes, PNP; master cable connection: Pluggable screw connection 180°, shielding: no

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
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1452848 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF41 |
| Product key | AF3CBD |
| GTIN | 4046356553704 |
| Weight per piece (including packing) | 230 g |
| Weight per piece (excluding packing) | 229.5 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|------------------------------|---|
| Note regarding documentation | For details about the PCB connectors used, refer to the technical data for MC 1,5/10-STF-3,5 (1847204) |
| 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 | Standard |
| Number of positions | 4 |
| Number of slots | 8 |
| Coding | A |
| LED | yes |

System properties

Local diagnostics

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

Electrical properties

| | |
|---|-------------------------------|
| Max. operating voltage U_{max} | 30 V DC |
| Local diagnostics | Supply voltage Green LED |
| | Status display I/O Yellow LED |
| Nominal voltage U_N | 24 V DC |
| Rated current, total | 10 A |
| Max. current carrying capacity per path | 2 A |
| Current carrying capacity per slot | 4 A |

Connection data

Conductor connection

| | |
|--|--|
| Sensor/actuator connection system | M12 socket |
| Conductor cross-section Flexible signal line | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section Flexible power supply | 0.14 mm ² ... 1.5 mm ² |
| Connection cross section AWG Flexible signal line | 26 ... 16 |
| Connection cross section AWG Flexible power supply | 26 ... 16 |
| Stripping length Signal line | 7 mm |
| Stripping length Power supply | 7 mm |
| Stripping length of the sheath | 50 mm (Master cable) |

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| | |
|--|--------|
| Tightening torque, cover screw | 1 Nm |
| Tightening torque slot sensor/actuator cable | 0.4 Nm |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |
| Tightening torque, union nut | 2.5 Nm |

Connection assignment

| | |
|--|-----------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH |
| | 2 / 4 (A) = GN |
| | 3 / 4 (A) = YE |
| | 4 / 4 (A) = GY |
| | 5 / 4 (A) = PK |
| | 6 / 4 (A) = RD |
| | 7 / 4 (A) = BK |
| | 8 / 4 (A) = VT |
| | 1-8 / 1 (+ 24 V) = BN |
| | 1-8 / 3 (0 V) = BU |
| 1-8 / 5 (PE) = GNYE | |

Signaling

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing | <p>The drawing shows two views of the distributor box. The top view (side profile) shows a total length of 148.8 mm, a height of 42.8 mm, and a mounting flange width of 15.8 mm. The bottom view (front view) shows a total width of 54 mm, a mounting flange height of 3.6 mm, and a distance of 73 mm between the center of the first and last contact. A hole diameter of Ø4.5 mm is also indicated.</p> |
| Width | 54 mm |
| Height | 43 mm |
| Length | 149 mm |

Material specifications

| | |
|--|-------------|
| Material Threaded sleeve | PBT |
| Material Housing | PBT |
| Material Molding compound | PUR |
| Flammability rating according to UL 94 | V0 |
| Seal material O-ring | NBR |
| Contact material | Cu alloy |
| Contact surface material | gold-plated |
| Contact carrier material | PA |
| Material of contact, master cable side | CU alloy |
| Material of the contact carrier on the master cable side | PA |

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| | |
|--|----|
| Material of contact surface, master cable side | Sn |
|--|----|

Cable/line

| | |
|-------------------------|----------------------------|
| External cable diameter | 7 mm ... 12 mm |
| Connection method | Pluggable screw connection |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

Standards and regulations

M12

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

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Drawings

Dimensional drawing



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Schematic diagram



M12 slot, socket, 4-pos.

Circuit diagram



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Approvals

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|  cUL Recognized Approval ID: E118976 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | - | - | - |

|  UL Recognized Approval ID: E118976 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | - | - | - |

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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, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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