

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



1453025

<https://www.phoenixcontact.com/us/products/1453025>

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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: Spring-cage 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 | 1453025 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF41 |
| Product key | AF3CBC |
| GTIN | 4046356553643 |
| Weight per piece (including packing) | 216 g |
| Weight per piece (excluding packing) | 217 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

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 | 12 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 | 0.2 mm ² ... 0.5 mm ² |
| Conductor cross-section Flexible power supply | 0.2 mm ² ... 1.5 mm ² |
| Connection cross section AWG Flexible signal line | 24 ... 20 |
| Connection cross section AWG Flexible power supply | 24 ... 16 |
| Stripping length Signal line | 6 mm |
| Stripping length Power supply | 10 mm |
| Stripping length of the sheath | 50 mm (Master cable) |
| 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 |

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| | |
|--|-----------------------|
| | 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 side view (top) shows a total length of 148.8 mm, a height of 42.6 mm, and a cable diameter of 10 mm. The top view (bottom) shows a width of 54 mm, a total length of 107 mm, and a distance of 73 mm between the contact points. A hole diameter of 4.5 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 |

Cable/line

| | |
|-------------------------|------------------------|
| External cable diameter | 7 mm ... 12 mm |
| Connection method | Spring-cage connection |

Environmental and real-life conditions

Ambient conditions

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

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Standards and regulations

| | |
|--------------------------|-----------------|
| 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 | | | | |
| Signal | - | 2 A | - | - |
| | 24 V | 4 A | - | - |

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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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