# SACB-8/16-L-C SCO - Distributor box

1516836

https://www.phoenixcontact.com/us/products/1516836

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Distributor box, application: Standard, extended requirements, connection method: M12 socket Metal, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, 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 space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

| | |
|---|---|
| Item number | 1516836 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF42 |
| Product key | AF3CCD |
| GTIN | 4017918967567 |
| Weight per piece (including packing) | 371.1 g |
| Weight per piece (excluding packing) | 326.13 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, extended requirements |
| Number of positions | 5 |
| Number of slots | 8 |
| Coding | A |
| LED | yes |

## System properties

### Local diagnostics

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

## Electrical properties

| | |
|---|---|
| Max. operating voltage $U_{max}$ | 30 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 | 10 A |
| | 2x 8 A (For electrical isolation) |
| 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 mm² ... 1.5 mm² |
| Conductor cross-section Flexible power supply | 0.14 mm² ... 1.5 mm² |
| 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 of the sheath | 50 mm (Master cable) |

| | |
|---|---|
| Tightening torque, cover screw | 0.35 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 |

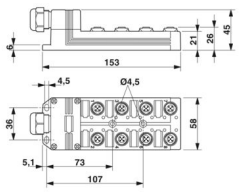
Connection assignment

| | |
|---|---|
| Slot/position = Wire color or connection | 1 / 4 (A) = 1 / 4 |
| | 1 / 2 (B) = 1 / 2 |
| | 2 / 4 (A) = 2 / 4 |
| | 2 / 2 (B) = 2 / 2 |
| | 3 / 4 (A) = 3 / 4 |
| | 3 / 2 (B) = 3 / 2 |
| | 4 / 4 (A) = 4 / 4 |
| | 4 / 2 (B) = 4 / 2 |
| | 5 / 4 (A) = 5 / 4 |
| | 5 / 2 (B) = 5 / 2 |
| | 6 / 4 (A) = 6 / 4 |
| | 6 / 2 (B) = 6 / 2 |
| | 7 / 4 (A) = 7 / 4 |
| | 7 / 2 (B) = 7 / 2 |
| | 8 / 4 (A) = 8 / 4 |
| | 8 / 2 (B) = 8 / 2 |
| | 1-8 / 1 (+ 24 V) = $U_N$ |
| | 1-8 / 3 (0 V) = 0 V |
| | 1-8 / 5 (PE) = PE |

## Signaling

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

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 58 mm |
| Height | 45 mm |
| Length | 153 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 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 6.6 V0 |
| Material of contact surface, master cable side | gold-plated |

## Cable/line

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

## Environmental and real-life conditions

### Ambient conditions

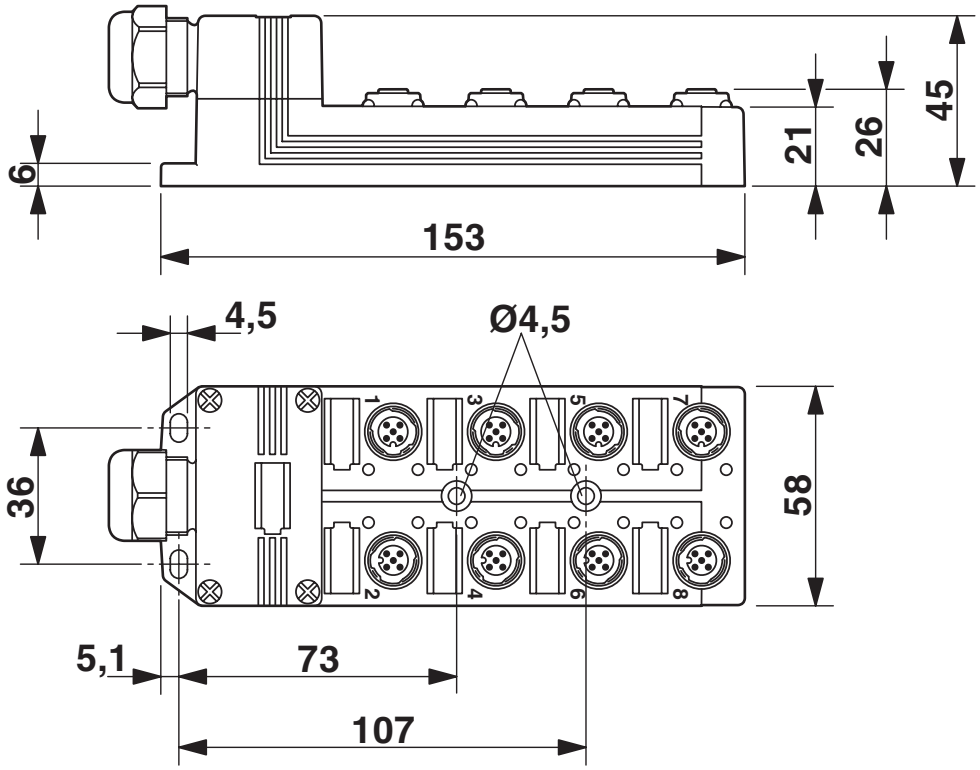
| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| | IP69K |
| Ambient temperature (operation) | -30 °C ... 80 °C |

## Standards and regulations

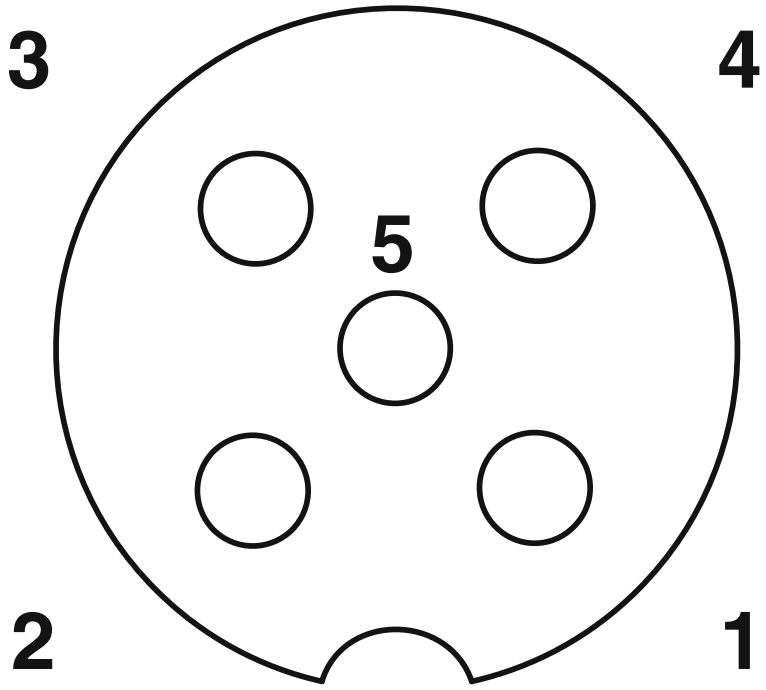
| | |
|---|---|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

## Drawings

Dimensional drawing

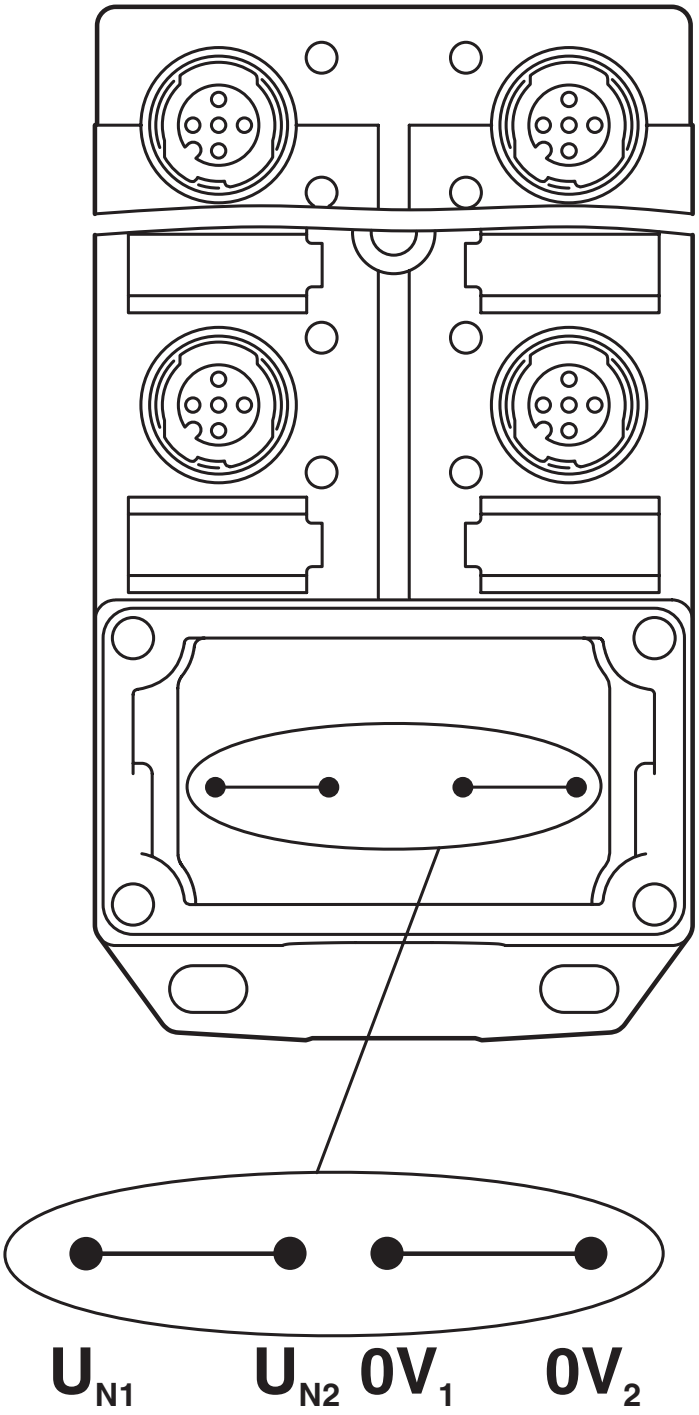



Schematic diagram



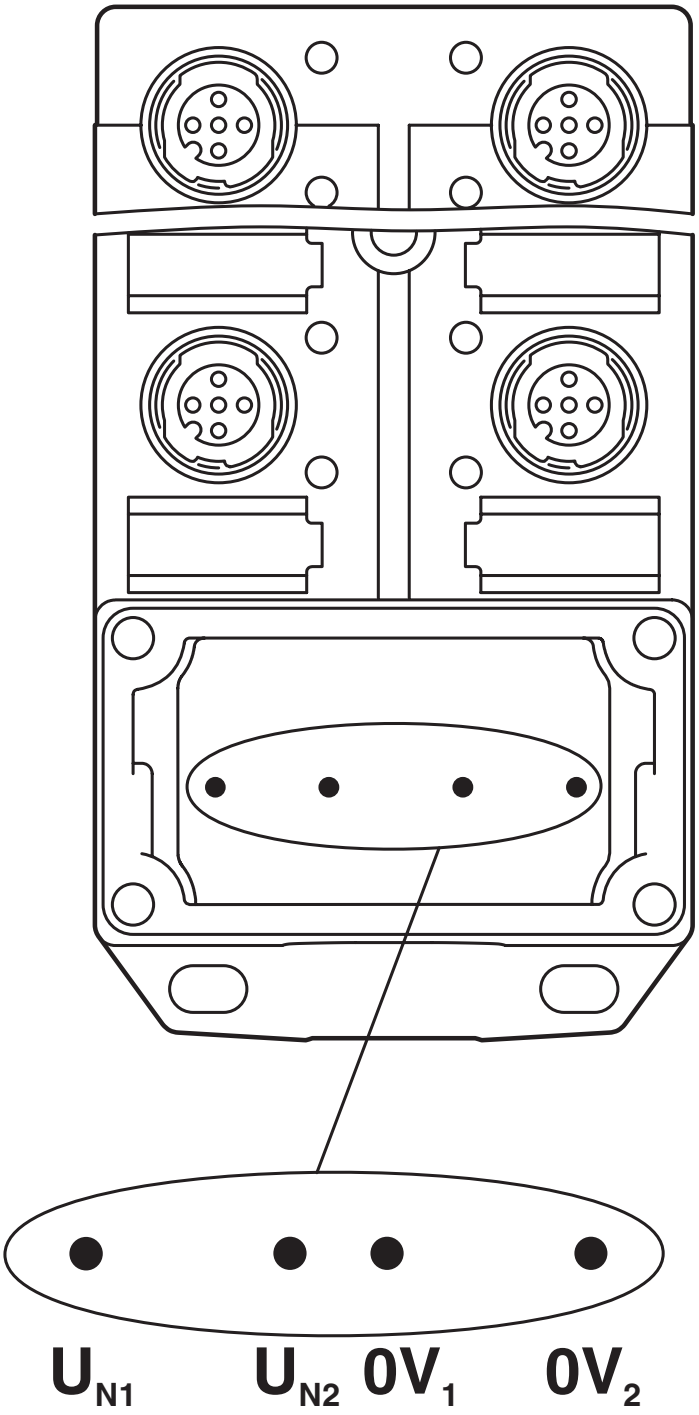

M12 slot, socket, 5-pos.

Schematic diagram



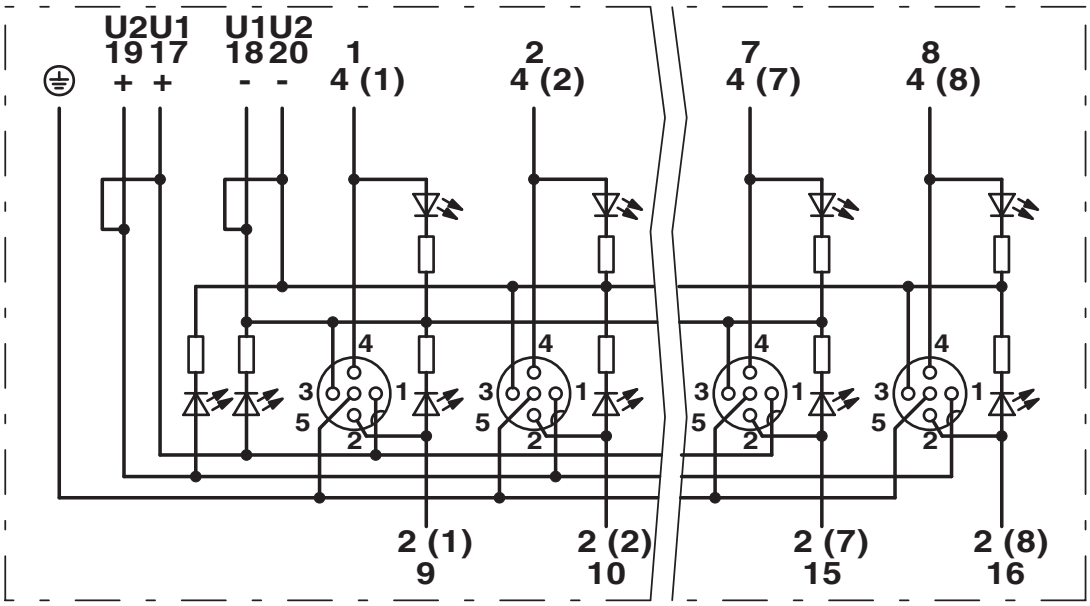

Potential $U_{N1}$ and $U_{N2}$ bridged. Potential assignment: $U_{N1}$ = $U_{N2}$ = slots 1,2,3,4,5,6,7,8.

Schematic diagram




Electrically isolated. Potential assignment: $U_{N1}$ = slots 1,3,5,7 and $U_{N2}$ = slots 2,4,6,8.

Circuit diagram



## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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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