

# SACB-8/16-L- 5,0PUR

Order No.: 1695197



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1695197>

Sensor/actuator box, M12 female connector, Number of slots: 8, Number of positions: 5, Slot assignment: Double, Status indication: Yes, pnp 180°, PUR/PVC, Cable length: 5 m, Shielding: No

## Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 177669 |
| sales group              | D101                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85366990                                                                                               |
| Catalog page information | Page 114 (PC-2009)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
03/13/2006



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## Technical data

### General data

|                                          |         |
|------------------------------------------|---------|
| Rated voltage                            | 24 V DC |
| Max. operating voltage $U_{max}$         | 30 V DC |
| Current carrying capacity per I/O signal | 2 A     |
| Current carrying capacity per slot       | 4 A     |

|                                    |                      |
|------------------------------------|----------------------|
| Total rated current                | 12 A                 |
| Number of positions                | 5                    |
| Number of slots                    | 8                    |
| Degree of protection               | IP65/IP67            |
| Inflammability class acc. to UL 94 | V0                   |
| Ambient temperature (operation)    | -25 °C ... 75 °C     |
| Sensor/actuator connection system  | M12 female connector |

#### Local diagnostics function

|                   |                               |
|-------------------|-------------------------------|
| Local diagnostics | Supply voltage Green LED      |
|                   | Status display I/O Yellow LED |

#### Master cable data

|                                              |                                                  |
|----------------------------------------------|--------------------------------------------------|
| Type of connection                           | Fixed connection                                 |
| Length of cable                              | 5 m                                              |
| Cable type                                   | Master cable suitable for flexible cable conduit |
| Signal line cross section                    | 16x 0.5 mm <sup>2</sup>                          |
| AWG signal line                              | 20                                               |
| Conductor structure signal line              | 64x 0.10 mm                                      |
| Power supply cross section                   | 3x 1 mm <sup>2</sup>                             |
| AWG power supply                             | 18                                               |
| Conductor structure, voltage supply          | 128x 0.10 mm                                     |
| External diameter                            | 11.6 mm                                          |
| Max. bending cycles                          | 1500000                                          |
| Bending radius                               | 120 mm                                           |
| Traversing path                              | 2 m                                              |
| Traversing rate                              | 2 m/s                                            |
| Ambient temperature (operation)              | -40 °C ... 90 °C (for fixed installation)        |
|                                              | -5 °C ... 80 °C (for flexible installation)      |
| Tightening torque slot sensor/actuator cable | 0.4 Nm                                           |
| Tightening torque screw plug                 | 0.4 Nm                                           |

#### Insulation material

|                          |       |
|--------------------------|-------|
| Housing material         | PA    |
| Contact material         | CuSn  |
| Contact surface material | Ni/Au |
| Contact carrier material | PA    |

|                                          |                       |
|------------------------------------------|-----------------------|
| Material, O-ring                         | NBR                   |
| <b>Pin assignment</b>                    |                       |
| Slot/position = Wire color or connection | 1 / 4 (A) = WH        |
|                                          | 1 / 2 (B) = GY/PK     |
|                                          | 2 / 4 (A) = GN        |
|                                          | 2 / 2 (B) = RD/BU     |
|                                          | 3 / 4 (A) = YE        |
|                                          | 3 / 2 (B) = WH/GN     |
|                                          | 4 / 4 (A) = GY        |
|                                          | 4 / 2 (B) = BN/GN     |
|                                          | 5 / 4 (A) = PK        |
|                                          | 5 / 2 (B) = WH/YE     |
|                                          | 6 / 4 (A) = RD        |
|                                          | 6 / 2 (B) = YE/BN     |
|                                          | 7 / 4 (A) = BK        |
|                                          | 7 / 2 (B) = WH/GY     |
|                                          | 8 / 4 (A) = VT        |
|                                          | 8 / 2 (B) = GY/BN     |
|                                          | 1-8 / 1 (+ 24 V) = BN |
|                                          | 1-8 / 3 (0 V) = BU    |
|                                          | 1-8 / 5 (PE) = GN/YE  |

#### Certificates / Approvals



Certification

CUL, GOST, UL

#### Accessories

| Item           | Designation       | Description                                                                                                                                     |
|----------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Marking</b> |                   |                                                                                                                                                 |
| 2809128        | ZBN 18:UNBEDRUCKT | Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White |

### Protection and sealing elements

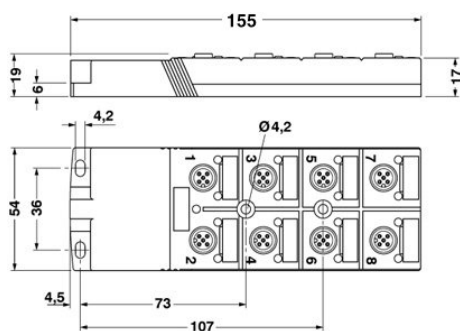
|         |          |                                                                                                                |
|---------|----------|----------------------------------------------------------------------------------------------------------------|
| 1680539 | PROT-M12 | An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors |
|---------|----------|----------------------------------------------------------------------------------------------------------------|

### Tools

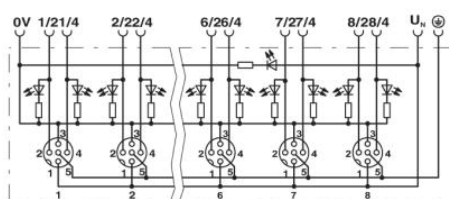
|         |                  |                                                                                                                                                       |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1208432 | SAC BIT M12-D15  | Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive |
| 1208445 | SACC BIT M12-D20 | Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive  |
| 1208429 | TSD 04 SAC       | Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors                                                          |

### Diagrams/Drawings

#### Dimensioned drawing

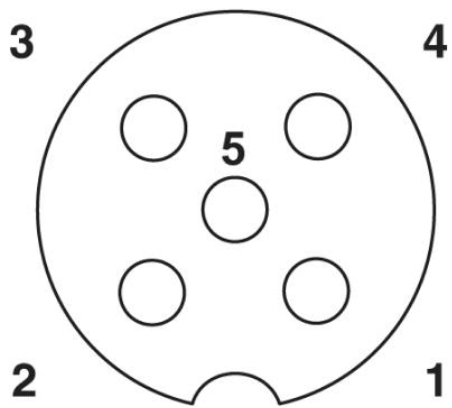


#### Circuit diagram



Schematic diagram

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M12 slot, socket, 5-pos.

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