

## SACB-8/ 8-10,0PUR SCO

Order No.: 1517055



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1517055>

Sensor/actuator box, M12-SPEEDCON-socket, Number of slots: 8,  
Number of positions: 4, Slot assignment: Single, Status indication: No,  
Universal 180°, PUR/PVC, Cable length: 10 m, Shielding: No



### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 967727 |
| sales group              | D101                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85366990                                                                                               |
| Catalog page information | Page 116 (PC-2009)                                                                                     |

### Product notes

WEEE/RoHS-compliant since:  
05/08/2006



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### Technical data

#### General data

|                                          |       |
|------------------------------------------|-------|
| Rated voltage                            | 120 V |
| Max. operating voltage $U_{max}$         | 135 V |
| Current carrying capacity per I/O signal | 2 A   |
| Current carrying capacity per slot       | 4 A   |

|                                    |                     |
|------------------------------------|---------------------|
| Total rated current                | 12 A                |
| Number of positions                | 4                   |
| Number of slots                    | 8                   |
| Degree of protection               | IP65/IP67/IP69K     |
| Inflammability class acc. to UL 94 | V0                  |
| Ambient temperature (operation)    | -30 °C ... 90 °C    |
| Sensor/actuator connection system  | M12-SPEEDCON-socket |

#### Master cable connection data

|                                              |                                             |
|----------------------------------------------|---------------------------------------------|
| Type of connection                           | Fixed connection                            |
| Length of cable                              | 10 m                                        |
| 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                    | PBT           |
| Material of the moulding mass       | PUR           |
| Contact material                    | Cu alloy      |
| Contact surface material            | Gold-plated   |
| Contact carrier material            | PA            |
| Material of threaded sleeve         | Zinc die-cast |
| Material of threaded sleeve surface | Nickel-plated |
| Material, O-ring                    | NBR           |

#### Pin 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 (+ 120 V) = BN |
|  | 1-8 / 3 (0 V) = BU     |
|  | 1-8 / 5 (PE) = GN/YE   |

#### Conductor data

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Cable type                                    | Master cable suitable for flexible cable conduit |
| Cable abbreviation                            | LiYY11Y-HF                                       |
| UL AWM Style                                  | 20549                                            |
| Conductor cross section                       | 0.34 mm <sup>2</sup> (signal line)               |
|                                               | 0.75 mm <sup>2</sup> (power line)                |
| AWG signal line                               | 22                                               |
| Conductor structure signal line               | 19x 0.15 mm                                      |
| AWG power supply                              | 18                                               |
| Conductor structure, voltage supply           | 42x 0.15 mm                                      |
| Core diameter including insulation            | 1.3 mm ±0.1 mm (signal line)                     |
|                                               | 1.8 mm ±0.1 mm (power line)                      |
| External cable diameter                       | 8.50 mm                                          |
| External sheath, color                        | Black RAL 9005                                   |
| Nominal voltage, conductor                    | 300 V                                            |
| Test voltage, conductor                       | 2000 V                                           |
| Overall twist                                 | Wires twisted in layers                          |
| Outer sheath, material                        | PUR                                              |
| Material, inner sheath                        | PVC                                              |
| Material conductor insulation                 | PVC                                              |
| Conductor material                            | Bare Cu litz wires                               |
| Smallest bending radius, fixed installation   | 85 mm                                            |
| Smallest bending radius, movable installation | 85 mm                                            |
| Number of bending cycles                      | 1500000                                          |
| Bending radius                                | 85 mm                                            |

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Traversing path    | 2 m                                                        |
| Traversing rate    | 2 m/s                                                      |
| Special properties | Silicone-free                                              |
| Flame resistance   | DIN EN 50265                                               |
| Resistance to oil  | As per VDE 0472 Part 803                                   |
| Other resistance   | Highly resistant to acids, alkaline solutions and solvents |

#### Certificates / Approvals



Certification

CUL, UL

#### Accessories

| Item           | Designation   | Description                                                                                                                                                                                                                       |
|----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Marking</b> |               |                                                                                                                                                                                                                                   |
| 0804963        | SS-ZB 17,5 WH | Contact marker Zack strip, unprinted: 5-section, for snapping into equipment and components with special marker carrier, can be labeled with M-PEN, CMS system or label BMKT 17.5 x 8, lettering field: 17.5 x 8 mm, color: white |

#### Protection and sealing elements

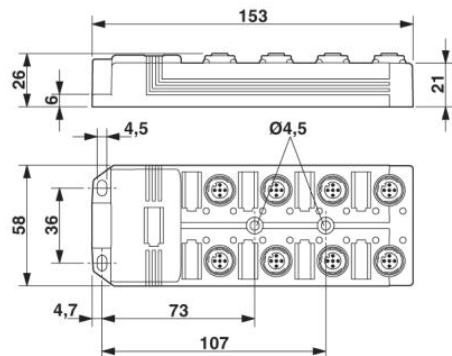
|         |             |                                                                                                                                      |
|---------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1553129 | PROT-MS SCO | M12 screw plug with SPEEDCON quick locking for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors |
|---------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|

#### Tools

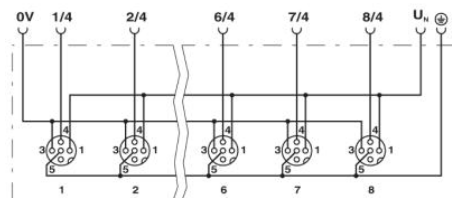
|         |                  |                                                                                                                                                       |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

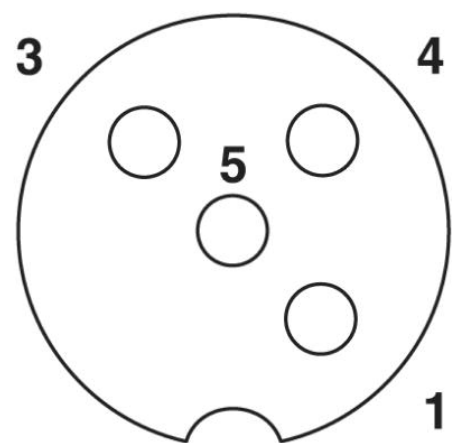
Dimensioned drawing



Circuit diagram



Schematic diagram



M12 slot, socket, 4-pos.

**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



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