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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## SACB-6/12- 5,0PUR

Order No.: 1680908

The illustration shows a version with 8 slots

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1680908>

Sensor/actuator box, M12 female connector, Number of slots: 6,  
Number of positions: 5, Slot assignment: Double, Status indication:  
No, Universal 180°, PUR/PVC, Cable length: 5 m, Shielding: No

| Commercial data          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 017918 171209 |
| sales group              | D101   |
| Pack                     | 1 pcs.   |
| Customs tariff           | 85366990   |
| Catalog page information | Page 114 (PC-2009)   |

**Product notes**WEEE/RoHS-compliant since:  
11/03/2006

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

| Technical data                           |       |
|--|-------|
| <b>General data</b>                      |       |
| 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                | 5                    |
| Number of slots                    | 6                    |
| 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 |

**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           | 12x 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                    | 17   |
| Conductor structure, voltage supply | 128x 0.10 mm   |
| External diameter                   | 10.5 mm  |
| Max. bending cycles                 | 1500000  |
| Bending radius                      | 110 mm   |
| Traversing path                     | 2 m  |
| Traversing rate                     | 2 m/s  |
| Ambient temperature (operation)     | -40 °C ... 90 °C (for fixed installation)<br>-5 °C ... 80 °C (for flexible installation) |

**Insulation material**

|                          |       |
|--------------------------|-------|
| Housing material         | PA    |
| Contact material         | CuSn  |
| Contact surface material | Ni/Au |
| Contact carrier material | PA    |
| Material, O-ring         | NBR   |

**Pin assignment**

|  |                |
|--|----------------|
| 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      |
|  | 1-6 / 1 (+ 120 V) = BN |
|  | 1-6 / 3 (0 V) = BU     |
|  | 1-6 / 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**

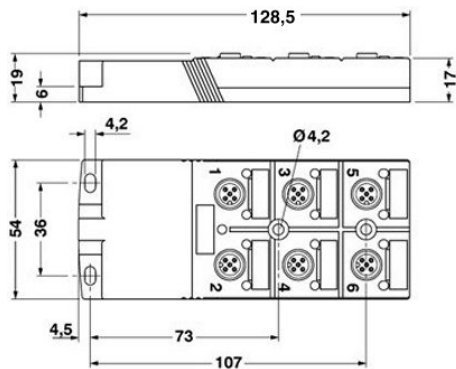
|         |                 |   |
|---------|-----------------|---|
| 1208432 | SAC BIT M12-D15 | Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive |
|---------|-----------------|---|



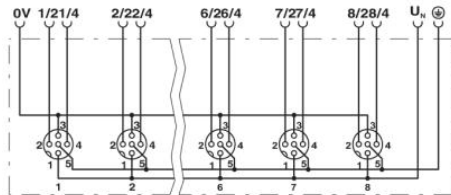
|         |                  |  |
|---------|------------------|--|
| 1208445 | SACC BIT M12-D20 | Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive |
| 1208429 | TSD 04 SAC       | Torque screwdriver,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

**Diagrams/Drawings**

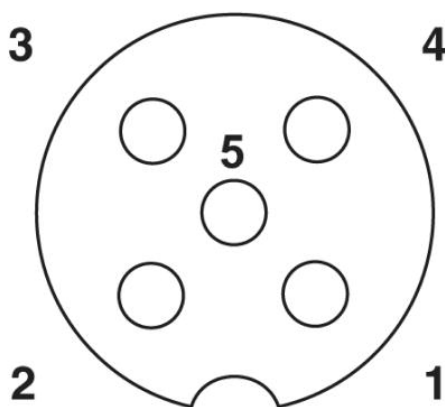
Dimensioned drawing



Circuit diagram



Schematic diagram



M12 slot, socket, 5-pos.

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