

## SACB-8/16-M23

Order No.: 1692844



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1692844>

Sensor/actuator box, M12 female connector, Number of slots: 8,  
Number of positions: 5, Slot assignment: Double, Status indication:  
No, Universal 90°, Shielding: No

### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 177973 |
| sales group              | D108                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85366990                                                                                               |
| Catalog page information | Page 114 (PC-2009)                                                                                     |

### Product notes

WEEE/RoHS-compliant since:  
12/05/2006



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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                | 5                    |
| Number of slots                    | 8                    |
| Degree of protection               | IP65/IP67            |
| Inflammability class acc. to UL 94 | V0                   |
| Ambient temperature (operation)    | -20 °C ... 75 °C     |
| Sensor/actuator connection system  | M12 female connector |

#### Master cable data

|                                              |                     |
|----------------------------------------------|---------------------|
| Type of connection                           | M23 plug connection |
| 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 of contact, master cable side         | CU alloy      |
| Material of contact surface, master cable side | Gold-plated   |
| Material of threaded sleeve                    | Zinc die-cast |
| Material, O-ring                               | NBR           |

#### Pin assignment

|                                          |                |
|------------------------------------------|----------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 15 |
|------------------------------------------|----------------|

|  |                        |
|--|------------------------|
|  | 1 / 2 (B) = 7          |
|  | 2 / 4 (A) = 5          |
|  | 2 / 2 (B) = 4          |
|  | 3 / 4 (A) = 16         |
|  | 3 / 2 (B) = 8          |
|  | 4 / 4 (A) = 3          |
|  | 4 / 2 (B) = 14         |
|  | 5 / 4 (A) = 17         |
|  | 5 / 2 (B) = 9          |
|  | 6 / 4 (A) = 2          |
|  | 6 / 2 (B) = 13         |
|  | 7 / 4 (A) = 11         |
|  | 7 / 2 (B) = 10         |
|  | 8 / 4 (A) = 1          |
|  | 8 / 2 (B) = 18         |
|  | 1-8 / 1 (+ 120 V) = 19 |
|  | 1-8 / 3 (0 V) = 6      |
|  | 1-8 / 5 (PE) = 12      |

#### Certificates / Approvals



Certification

CUL, GOST, UL

#### Accessories

| Item           | Designation       | Description                                                                                                                                     |
|----------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                   |                                                                                                                                                 |
| 1665062        | PLUSCON-RCS       | Special pipe spanner, tool for mounting the M23 connector housing (with assembly), for coupling and sleeve housing                              |
| <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 |
|---------|----------|----------------------------------------------------------------------------------------------------------------|

#### Sealing cap

|         |       |                                                                          |
|---------|-------|--------------------------------------------------------------------------|
| 1685013 | KSK 1 | Plastic sealing cap, for unoccupied M23 connectors                       |
| 1665897 | MSK 1 | M23 metal sealing cap, for unoccupied M23 connectors, without steel wire |
| 1665907 | MSK 2 | M23 metal sealing cap, for unoccupied M23 connectors, with steel wire    |

#### Socket

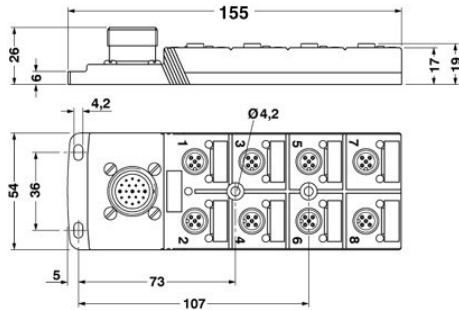
|         |                              |                                                                                                                            |
|---------|------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1684056 | RCK-TGUM/BL16+3/ 5,0PUR-U    | Female connector, Number of positions: 19, Status indication: No, Cable length: 5 m, Shielding: No                         |
| 1684069 | RCK-TGUM/BL16+3/10,0PUR-U    | Female connector, Number of positions: 19, Status indication: No, Cable length: 10 m, Shielding: No                        |
| 1684072 | RCK-TWUM/BL16+3/ 5,0PUR-U    | Female connector, Number of positions: 19, Status indication: No, Cable length: 5 m, Shielding: No                         |
| 1684085 | RCK-TWUM/BL16+3/10,0PUR-U    | Female connector, Number of positions: 19, Status indication: No, Cable length: 10 m, Shielding: No                        |
| 1000042 | V-RC/TGUM 13/KVD 13/LBL 16+3 | M23 socket, 19-pos., straight, freely configurable, with solder connection, for external cable diameter of 10 mm ... 14 mm |
| 1000044 | V-RC/TWUM 13/KVD 13/LBL 16+3 | M23 socket, 19-pos., angled, freely configurable, with solder connection, for external cable diameter of 10 mm ... 14 mm   |

#### Tools

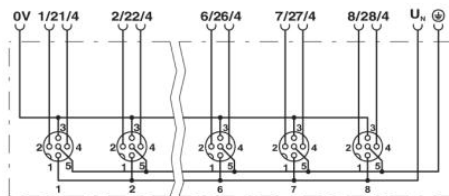
|         |                  |                                                                                                                                                       |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------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

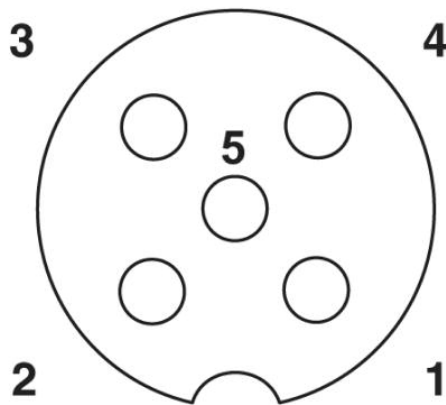
### Dimensioned drawing



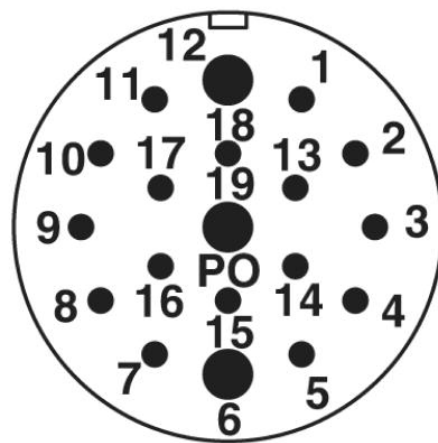
### Circuit diagram



### Schematic diagram



M12 slot, socket, 5-pos.



M23 plug connection pin, 19-pos.

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