

## SACB-6/ 6-L-M23

Order No.: 1692420

The illustration shows a version with 8 slots



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1692420>

Sensor/actuator box, M12 female connector, Number of slots: 6,  
Number of positions: 4, Slot assignment: Single, Status indication:  
Yes, pnp 90°, Shielding: No

### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 177881 |
| sales group              | D108                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85366990                                                                                               |
| Catalog page information | Page 114 (PC-2009)                                                                                     |

### Product notes

WEEE/RoHS-compliant since:  
11/13/2006



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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                | 4                    |
| Number of slots                    | 6                    |
| 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 |

#### Local diagnostics function

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

#### 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) = 1         |
|                                          | 2 / 4 (A) = 2         |
|                                          | 3 / 4 (A) = 3         |
|                                          | 4 / 4 (A) = 4         |
|                                          | 5 / 4 (A) = 5         |
|                                          | 6 / 4 (A) = 6         |
|                                          | 1-4 / 1 (+ 24 V) = 11 |
|                                          | 1-4 / 3 (0 V) = 9+10  |
|                                          | 1-4 / 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 |
| <b>Protection and sealing elements</b> |                            |                                                                                                                                                 |
| 1680539                                | PROT-M12                   | An M12 screw plug for the unoccupied M12 sockets of the sensor/ actuator cable, boxes and flush-type connectors                                 |
| <b>Sealing cap</b>                     |                            |                                                                                                                                                 |
| 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                                                                           |
| <b>Socket</b>                          |                            |                                                                                                                                                 |
| 1685107                                | RC-T 12/1BU2ST             | T distributor M23, 12-pos., with an M23 socket and two M23 connectors                                                                           |
| 1684014                                | RCK-TGUM/BL12/ 5,0PUR-U    | Female connector M23, straight, 12-pos., with master cable 5 m                                                                                  |
| 1684027                                | RCK-TGUM/BL12/10,0PUR-U    | Female connector M23, straight, 12-pos., with master cable 10 m                                                                                 |
| 1684030                                | RCK-TWUM/BL12/ 5,0PUR-U    | Female connector M23, angled, 12-pos., with master cable 5 m                                                                                    |
| 1684043                                | RCK-TWUM/BL12/10,0PUR-U    | Female connector M23, angled, 12-pos., with master cable 10 m                                                                                   |
| 1000041                                | V-RC/TGUM 11/KVD 11/LBL 12 | M23 socket, 12-pos., straight, freely configurable, with solder connection, for external cable diameter of 8 mm ... 12 mm                       |

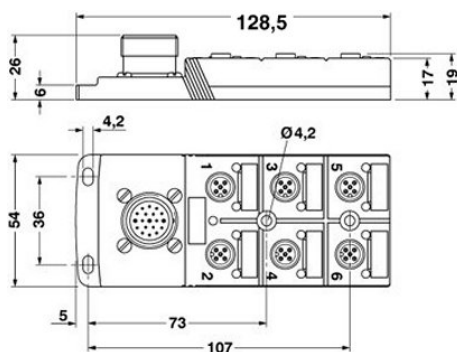
|         |                            |                                                                                                                         |
|---------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1000043 | V-RC/TWUM 11/KVD 11/LBL 12 | M23 socket, 12-pos., angled, freely configurable, with solder connection, for external cable diameter of 8 mm ... 12 mm |
|---------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|

#### Tools

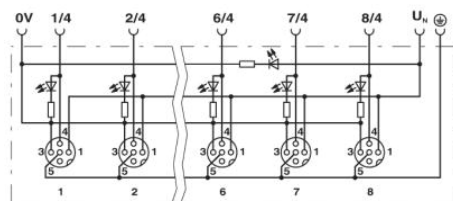
|         |                  |                                                                                                                                                       |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------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

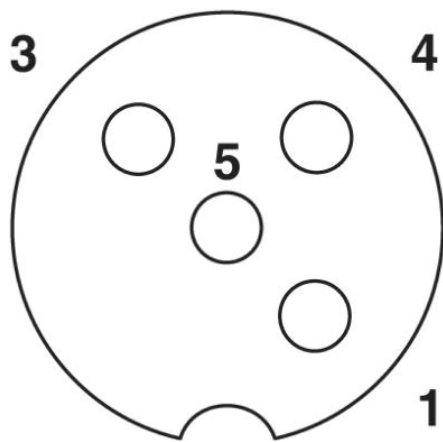


##### Circuit diagram

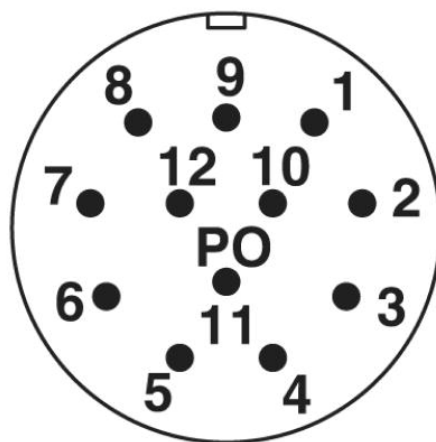


Schematic diagram

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M12 slot, socket, 4-pos.



M23 plug connection pin, 12-pos.

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