

## Excellent Integrated System Limited

Stocking Distributor

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catalog

## SACB-8/ 8-L-SC

Order No.: 1671247



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1671247>

Sensor/actuator box, M12 female connector, Number of slots: 8,  
Number of positions: 4, Slot assignment: Single, Status indication:  
Yes, pnp 180°, Shielding: No

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| GTIN (EAN)               |                    |
| sales group              | D103               |
| Pack                     | 1 pcs.             |
| Customs tariff           | 85366990           |
| Catalog page information | Page 115 (PC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
06/18/2007



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### Technical data

#### General data

|                                          |         |
|------------------------------------------|---------|
| Rated voltage                            | 24 V DC |
| Max. operating voltage U <sub>max</sub>  | 30 V DC |
| Current carrying capacity per I/O signal | 2 A     |
| Current carrying capacity per slot       | 4 A     |

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|                                    |                      |
|------------------------------------|----------------------|
| Total rated current                | 12 A                 |
| Number of positions                | 4                    |
| 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 per module Green LED |
|                   | Status display I/O Yellow LED       |

#### Master cable data

|                                              |                      |
|----------------------------------------------|----------------------|
| Type of connection                           | Spring-cage conn.    |
| Conductor cross-section min. (signal)        | 0.14 mm <sup>2</sup> |
| Conductor cross-section max. (signal)        | 1 mm <sup>2</sup>    |
| Conductor cross-section AWG min. (signal)    | 26                   |
| Conductor cross-section AWG max. (signal)    | 17                   |
| Conductor cross-section min. (energy)        | 0.2 mm <sup>2</sup>  |
| Conductor cross-section max. (energy)        | 1.5 mm <sup>2</sup>  |
| Conductor cross-section AWG min. (energy)    | 24                   |
| Conductor cross-section AWG max. (energy)    | 16                   |
| External cable diameter min.                 | 6.5 mm               |
| External cable diameter max.                 | 9.5 mm               |
| Stripping length                             | 10 mm                |
| Tightening torque, union nut                 | 2.5 Nm               |
| 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         | CuZn  |
| Material of contact surface, master cable side | NiSn  |

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|                                                          |          |
|----------------------------------------------------------|----------|
| Material of the contact carrier on the master cable side | PA 66 V0 |
| Material, O-ring                                         | NBR      |

**Pin assignment**

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 1 / 4                 |
|                                          | 2 / 4 (A) = 2 / 4                 |
|                                          | 3 / 4 (A) = 3 / 4                 |
|                                          | 4 / 4 (A) = 4 / 4                 |
|                                          | 5 / 4 (A) = 5 / 4                 |
|                                          | 6 / 4 (A) = 6 / 4                 |
|                                          | 7 / 4 (A) = 7 / 4                 |
|                                          | 8 / 4 (A) = 8 / 4                 |
|                                          | 1-8 / 1 (+ 24 V) = U <sub>N</sub> |
|                                          | 1-8 / 3 (0 V) = 0 V               |
|                                          | 1-8 / 5 (PE) = PE                 |

**Certificates / Approvals**


Certification

CUL, GOST, UL

**Accessories**

| Item           | Designation                   | Description                                                                                                                                             |
|----------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                               |                                                                                                                                                         |
| 1503344        | SACB- 8X0,34/ 3X0,75-50,0 PUR | Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PVC, 11-pos., 8 x 0.34 mm <sup>2</sup> and 3 x 0.75 mm <sup>2</sup> |
| <b>Grommet</b> |                               |                                                                                                                                                         |
| 1680377        | SACB-D PG 13,5 (4,0-6,5) YE   | Rubber seal for Pg screw connection 13.5, for conductor diameter 4.0 mm ... 6.5 mm                                                                      |
| 1680380        | SACB-D PG 13,5 (6,5-9,5) BK   | Rubber seal for Pg screw connection 13.5, for conductor diameter 6.5 mm ... 9.5 mm                                                                      |
| 1680393        | SACB-D PG 13,5 (9,0-13,0) RD  | Rubber seal for Pg screw connection 13.5, for conductor diameter 9.0 mm ... 13.0 mm                                                                     |

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### Marking

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

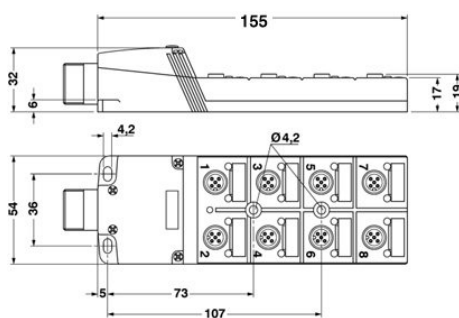
|         |          |                                                                                                                 |
|---------|----------|-----------------------------------------------------------------------------------------------------------------|
| 1680539 | PROT-M12 | An M12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

### Tools

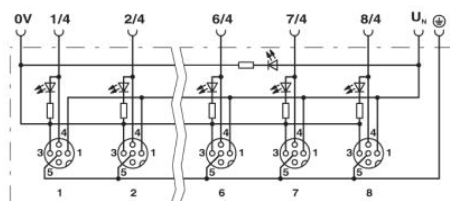
|         |                  |                                                                                                                                                       |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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  |
| 1206450 | SZK PZ1 VDE      | Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip                                                    |
| 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



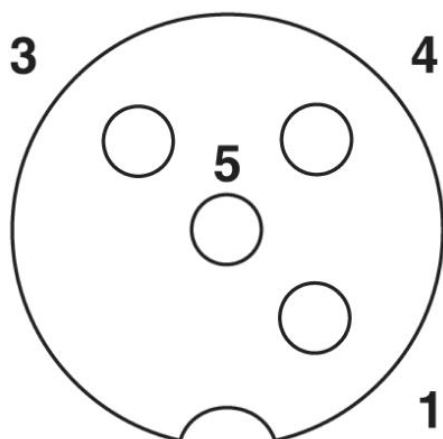
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Schematic diagram

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M12 slot, socket, 4-pos.

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