

## SACB-8Q/4P-SC

Order No.: 1683659



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1683659>

Sensor/actuator box, QUICKON, 0.34 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, Number of slots: 8, Number of positions: 4, Slot assignment: Single, Status indication: No, Universal 180°, Shielding: No

### Commercial data

|                          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 017918 170981 |
| sales group              | D105   |
| Pack                     | 1 pcs.   |
| Customs tariff           | 85366990   |
| Catalog page information | Page 119 (PC-2009)   |

### Product notes

WEEE/RoHS-compliant since:  
01/23/2007



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### Technical data

#### General data

|  |       |
|--|-------|
| Rated voltage                            | 120 V |
| Max. operating voltage U <sub>max</sub>  | 135 V |
| Current carrying capacity per I/O signal | 4 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        |
| Inflammability class acc. to UL 94 | V0               |
| Ambient temperature (operation)    | -25 °C ... 60 °C |
| Sensor/actuator connection system  | QUICKON          |

**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               |

**Conductor data**

|   |   |
|---|---|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6 // 0.34 mm <sup>2</sup> : 0.1 mm; 0.5 - 0.75 mm <sup>2</sup> : 0.15 mm    |
| Wire insulation material  | PVC/PE  |
| Wire diameter including insulation  | ≤ 2.5 mm  |
| Minimum external conductor diameter   | 4 mm  |
| Maximum external conductor diameter   | 7.5 mm  |
| Tightening torque, union nut  | 2.5 Nm  |
| Wrench size, union nut  | 22 mm   |
| Note on the frequency of connections  | if the conductor is connected more than once, seal and cap may need to be replaced. |
| Conductor cross section stranded max.                                       | 0.75 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                       | 0.34 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                      | 22  |
| Conductor cross section AWG/kcmil max                                       | 18  |

**Insulation material**

|  |              |
|--|--------------|
| Housing material   | PA           |
| Material of the moulding mass                            | PUR          |
| Contact material   | Steel/copper |
| Contact surface material                                 | Sn           |
| Material of contact, master cable side                   | CuZn         |
| Material of contact surface, master cable side           | NiSn         |
| Material of the contact carrier on the master cable side | PA 66 V0     |

**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 (+ 120 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>Assembly</b> |                        |  |
| 1670743         | Q SET-11/4 COD1 SACB-Q | QUICKON set for replacement purposes, consisting of pressure nut, cap, line seal and splice ring |

**General**

|         |                               |   |
|---------|-------------------------------|---|
| 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> |
|---------|-------------------------------|---|

**Grommet**

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

**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**

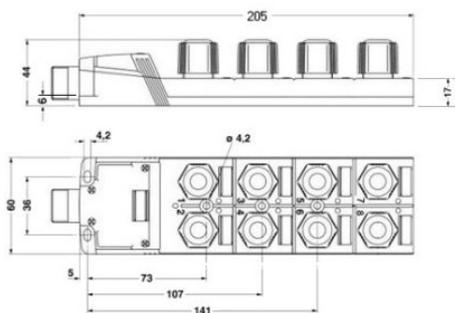
|         |             |  |
|---------|-------------|--|
| 1670235 | Q-PROT 9/11 | Closing cap for PG9/PG11 to close unoccupied connections |
|---------|-------------|--|

**Tools**

|         |             |  |
|---------|-------------|--|
| 1670206 | QSS 22      | Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm                         |
| 1206450 | SZK PZ1 VDE | Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip |

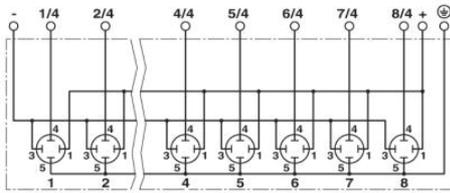
**Diagrams/Drawings**

Dimensioned drawing



Circuit diagram

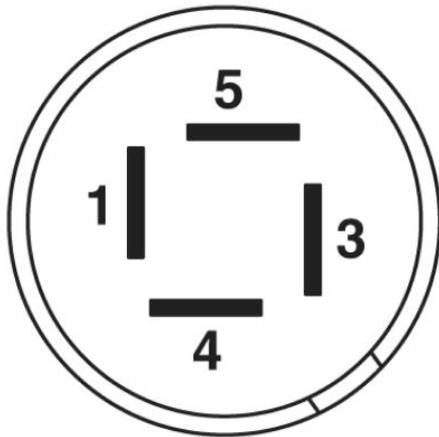
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Schematic diagram

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QUICKON connection, 4-pos.



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