

## Sensor/actuator box - SACB- 6/3-C QO-0,34 - 1548367

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Sensor/actuator box, Connection method: QUICKON, 0.14 mm<sup>2</sup> ... 0.34 mm<sup>2</sup>, Number of slots: 6, Number of positions: 3, Slot assignment: Single, Status indication: No, Universal; Master cable connection: Pluggable screw connection 180°, Shielding: No

### Product Features

- ✓ Safety in the field, thanks to molded housing and high degree of protection
- ✓ Flexible, distributed bundling of signals in one master cable
- ✓ Innovative and time-saving assembly with insulation displacement connection
- ✓ Flexible: distributor box with connector hood for on-site assembly



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 PCE     |
| Weight per Piece (excluding packing) | 298.0 GRM |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### General

|  |                                   |
|--|-----------------------------------|
| Rated voltage                            | 48 V                              |
|  | 60 V DC                           |
| Current carrying capacity per I/O signal | 2 A                               |
| Current carrying capacity per slot       | 4 A                               |
| Total rated current                      | 10 A                              |
|  | 2x 8 A (For electrical isolation) |
| Number of positions                      | 3                                 |
| Number of slots                          | 6                                 |
| Inflammability class according to UL 94  | V0                                |
| Sensor/actuator connection system        | QUICKON                           |

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## Technical data

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP65             |
|                                 | IP67             |
|                                 | IP69K            |
| Ambient temperature (operation) | -30 °C ... 80 °C |

### Master cable data/connection data

|   |                            |
|---|----------------------------|
| Connection method                         | Pluggable screw connection |
| Conductor cross section min. (signal)     | 0.14 mm <sup>2</sup>       |
| Conductor cross section max. (signal)     | 1.5 mm <sup>2</sup>        |
| Conductor cross section AWG min. (signal) | 26                         |
| Conductor cross section AWG max. (signal) | 16                         |
| Stripping length (signal)                 | 7 mm                       |
| Conductor cross section min. (energy)     | 0.14 mm <sup>2</sup>       |
| Conductor cross section max. (energy)     | 1.5 mm <sup>2</sup>        |
| Conductor cross section AWG min. (energy) | 26                         |
| Conductor cross section AWG max. (energy) | 16                         |
| External cable diameter min.              | 7 mm                       |
| External cable diameter max.              | 12 mm                      |
| Stripping length                          | 50 mm (Master cable)       |
| Tightening torque, cover screw            | 0.35 Nm                    |
| Tightening torque, union nut              | 2.5 Nm                     |

### Conductor data

|   |                      |
|---|----------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6            |
| Wire insulation material  | PVC/PE/PP            |
| Wire diameter including insulation  | 0.7 mm ... 1.3 mm    |
| Minimum external conductor diameter   | 3.5 mm               |
| Maximum external conductor diameter   | 6 mm                 |
| Tightening torque, union nut  | 2 Nm                 |
| Wrench size, union nut  | 13 mm                |
| Conductor cross section stranded min.                                       | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                       | 0.34 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min.                                      | 26                   |
| Conductor cross section AWG/kcmil max.                                      | 22                   |

### Insulation material

|                               |              |
|-------------------------------|--------------|
| Housing material              | PBT          |
| Material of the moulding mass | PUR          |
| Contact material              | Steel/copper |

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## Technical data

### Insulation material

|  |             |
|--|-------------|
| Contact surface material                                 | Sn          |
| Material of contact, master cable side                   | CU alloy    |
| Material of contact surface, master cable side           | Gold-plated |
| 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                 |
|  | 1-6 / 1 (+ 48 V) = U <sub>N</sub> |
|  | 1-6 / 3 (0 V) = 0 V               |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27449001 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001856 |
| ETIM 4.0 | EC002585 |
| ETIM 5.0 | EC002585 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31261501 |

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## Approvals

Approvals

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Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

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Ex Approvals


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Approvals submitted


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## Approval details

|  |      |
|--|------|
| UL Recognized  |      |
|  |      |
| Nominal voltage UN   | 48 V |

|  |      |
|--|------|
| cUL Recognized  |      |
|  |      |
| Nominal voltage UN   | 48 V |

|  |  |
|--|--|
| GOST  |  |
|--|--|

|  |  |
|--|--|
| cULus Recognized  |  |
|--|--|

## Accessories

Accessories

Cable by the meter

## Sensor/actuator box - SACB- 6/3-C QO-0,34 - 1548367

### Accessories

Master cable ring - SACB- 6X0,34/2X0,75-50 PUR - 1517589



Master cable for sensor/actuator boxes, without PE conductor, unshielded, material PUR/PVC, 8-pos., 6 x 0.34 mm<sup>2</sup> and 2 x 0.75 mm<sup>2</sup>, length: 50 m

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### Connector hood without master cable

Connector hood - SACB-C-H180 8/4 QO-0,34 - 1560235



Connector hood, For use in Sensor/actuator box, Connection method: QUICKON, Number of slots: 8, Slot assignment: Double, Status indication: No; Master cable connection: Pluggable screw connection 180°, Shielding: No

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### Device marking

Contact marker – zack marker strip - SS-ZB 17,5 WH - 0804963



Contact marker – zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm

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### Pressure nut

Connector - QO-SET - 1548626



QUICKON set for replacement purposes, consisting of splice ring, pressure nut and line seal

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### Protective cap

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### Accessories

Filler plugs - Q-PROT 9/11 - 1670235



Closing cap for Pg9/Pg11 to close unoccupied connections

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### Screwdriver tools

Philips screwdriver - SZK PZ1 VDE - 1206450



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

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Tool - SAC BIT QUICKON-W13 - 1212033



Nut for assembling QUICKON pressure nuts with 13 mm wrench size, for 4 mm hexagonal drive

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### Torque tool

Torque screwdriver - TSD 20 SAC - 1212020



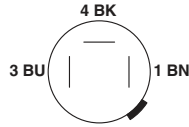
Torque screwdriver, with preset torque of 2.0 Nm and 4 mm hexagonal drive for the pressure nut of the fast connection

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### Drawings

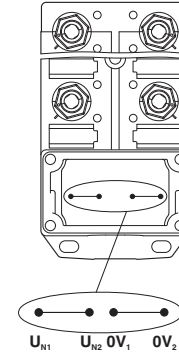
# Sensor/actuator box - SACB- 6/3-C QO-0,34 - 1548367

Schematic diagram



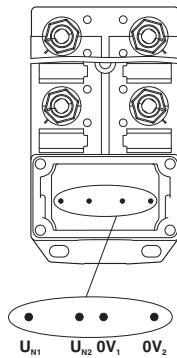
QUICKON connection, 3-pos.

Schematic diagram



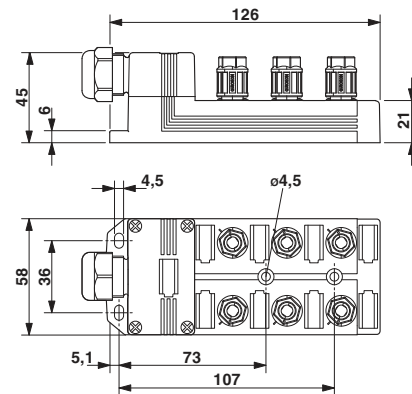
Potential  $U_{N1}$  and  $U_{N2}$  bridged. Potential assignment:  $U_{N1} = U_{N2} =$  slots 1,2,3,4,5,6.

Schematic diagram



Electrically isolated. Potential assignment:  $U_{N1} =$  slots 1,3,5 and  $U_{N2} =$  slots 2,4,6.

Dimensioned drawing



Circuit diagram

