

## 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 	
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cULus Recognized 	
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## 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



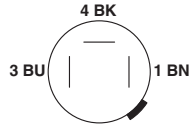
Torque screwdriver, with preset torque of 2.0 Nm and 4 mm hexagonal drive for the pressure nut of the fast connection

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### Drawings

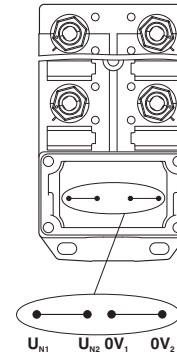
# Sensor/actuator box - SACB- 6/3-C QO-0,34 - 1548367

Schematic diagram



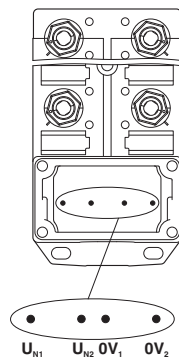
QUICKON connection, 3-pos.

Schematic diagram



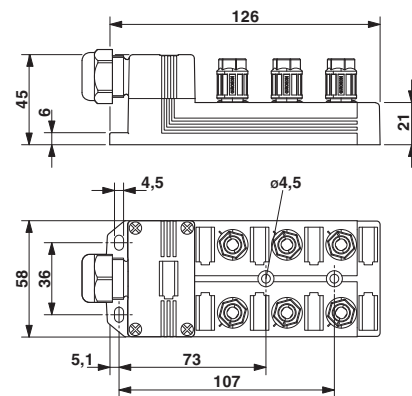
Potential  $U_{N1}$  and  $U_{N2}$  bridged. Potential assignment:  $U_{N1} = U_{N2} =$  slots 1,2,3,4,5,6.

Schematic diagram



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

Dimensioned drawing



Circuit diagram

