

## Sensor/actuator box - SACB-4Q/4P- 5,0PUR - 1683662

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Sensor/actuator box, Application: Standard, Connection method: QUICKON, 0.34 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, Number of slots: 4, Number of positions: 4, Slot assignment: single, Status indication: No, Universal; Master cable connection: Fixed connection 180°, PUR/PVC, Cable length: 5 m, Shielding: No

The illustration shows a version with 8 QUICKON connections

### 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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	685.0 g
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### General

Rated voltage	120 V
Max. operating voltage $U_{max}$	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	4
Flammability rating according to UL 94	V0
Sensor/actuator connection system	QUICKON

#### Ambient conditions

## Sensor/actuator box - SACB-4Q/4P- 5,0PUR - 1683662

### Technical data

#### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 60 °C
	-40 °C ... 90 °C (for fixed installation)
	-5 °C ... 80 °C (for flexible installation)

#### Master cable connection data

Connection method	Fixed connection
Length of cable	5 m

#### 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 flexible min.	0.34 mm <sup>2</sup>
Conductor cross section flexible max.	0.75 mm <sup>2</sup>
Conductor cross section AWG min.	22
Conductor cross section AWG max.	18

#### Insulation material

Housing material	PA
Material of the moulding mass	PUR
Contact material	Steel/copper
Contact surface material	Sn

#### Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	2 / 4 (A) = GN
	3 / 4 (A) = YE
	4 / 4 (A) = GY
	1-4 / 1 (+ 120 V) = BN
	1-4 / 3 (0 V) = BU
	1-4 / 5 (PE) = GN/YE

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## Technical data

### Standards and Regulations

Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

### Cable

Cable type	PUR/PVC black
Cable type (abbreviation)	PUR
Cable abbreviation	LiYY11Y-HF
UL AWM style	20549
Conductor cross section	4x 0.34 mm <sup>2</sup> (Signal line)
	3x 0.75 mm <sup>2</sup> (power line)
AWG signal line	22
AWG power supply	18
Conductor structure signal line	19x 0.15 mm
Conductor structure, voltage supply	42x 0.15 mm
Core diameter including insulation	1.3 mm ±0.1 mm (Signal line)
	1.8 mm ±0.1 mm (power line)
Overall twist	Wires twisted in layers
External sheath, color	black RAL 9005
Inner sheath thickness	≥ 0.15 mm
Outer sheath thickness	≥ 0.38 mm
External cable diameter D	6.9 mm ±0.2 mm
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1500000
Bending radius	69 mm
Traversing path	2 m
Traversing rate	2 m/s
Cable weight	77.9 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Nominal voltage, cable	300 V
Test voltage, cable	2000 V
Special properties	Silicone-free
Flame resistance	DIN EN 50265
Resistance to oil	As per VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents

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## Technical data

### Cable

Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

## Classifications

### eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27279219

### ETIM

ETIM 2.0	EC000200
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

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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## Approvals

Approvals submitted

### Approval details

UL Recognized	
mm <sup>2</sup> /AWG/kcmil	22-16
Nominal voltage UN	120 V

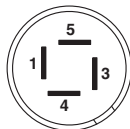
cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	22-16
Nominal voltage UN	120 V

EAC
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cULus Recognized
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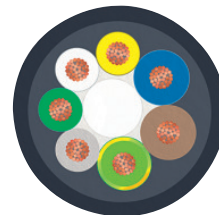
## Drawings

Schematic diagram



QUICKON connection, 4-pos.

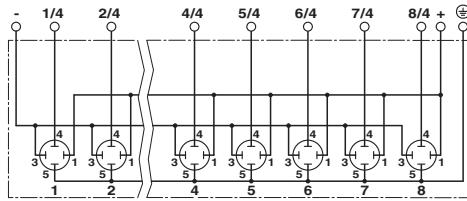
Cable cross section



PUR/PVC black [PUR]

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Circuit diagram



Dimensional drawing

