

## Sensor/actuator box - SACB-8Q/4P-L- 5,0PUR - 1695281

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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: 8, Number of positions: 4, Slot assignment: single, Status indication: Yes, pnp; Master cable connection: Fixed connection 180°, PUR/PVC, Cable length: 5 m, Shielding: No

### Why buy this product

- ✓ Safety in the field, thanks to molded housing and high degree of protection
- ✓ Flexible, distributed bundling of signals in one master cable
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Innovative and time-saving assembly with insulation displacement connection

### Key Commercial Data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 STK     |
| Weight per Piece (excluding packing) | 841.000 g |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland    |

### Technical data

#### General

|  |         |
|--|---------|
| Rated voltage                            | 24 V DC |
| Max. operating voltage U <sub>max</sub>  | 30 V DC |
| 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       |
| Flammability rating according to UL 94   | V0      |
| Sensor/actuator connection system        | QUICKON |

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## 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) |

### Local diagnostics function

|                   |                               |
|-------------------|-------------------------------|
| Local diagnostics | Supply voltage Green LED      |
|                   | Status display I/O Yellow LED |

### 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 |

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## Technical data

### Pin assignment

|  |                        |
|--|------------------------|
|  | 5 / 4 (A) = PK         |
|  | 6 / 4 (A) = RD         |
|  | 7 / 4 (A) = BK         |
|  | 8 / 4 (A) = VT         |
|  | 1-8 / 1 (+ 120 V) = BN |
|  | 1-8 / 3 (0 V) = BU     |
|  | 1-8 / 5 (PE) = GN/YE   |

### 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 (80°C/300 V)                    |
| Conductor cross section                         | 8x 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                       | 8.5 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                               |
| Minimum bending radius, drag chain applications | 10 x D                                |
| Traversing path                                 | 2 m                                   |
| Traversing rate                                 | 2 m/s                                 |
| Cable weight                                    | 107.4 kg/km                           |
| Outer sheath, material                          | PUR                                   |

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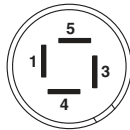
## Technical data

### Cable

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

## Drawings

Schematic diagram



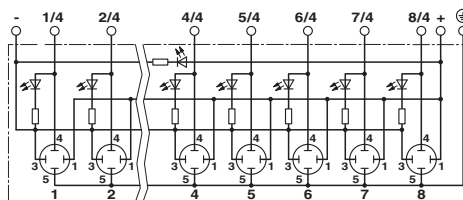
QUICKON connection, 4-pos.

Cable cross section



PUR/PVC black [PUR]

Circuit diagram



Dimensional drawing

## Approvals

Approvals

# Sensor/actuator box - SACB-8Q/4P-L- 5,0PUR - 1695281

## Approvals

### Approvals


UL Recognized / cUL Recognized / EAC / cULus Recognized


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### Ex Approvals


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### Approval details

|   |       |
|---|-------|
| UL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 118976 |       |
|   |       |
| mm <sup>2</sup> /AWG/kcmil  | 22-16 |
| Nominal voltage UN  | 24 V  |

|  |       |
|--|-------|
| cUL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 118976 |       |
|  |       |
| mm <sup>2</sup> /AWG/kcmil   | 22-16 |
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|                   |
|-------------------|
| EAC EAC-Zulassung |
|-------------------|

|  |
|--|
| cULus Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
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