

## Sensor/actuator box - SACB-6/12-L- 5,0PUR SCO P NPN - 1405735

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Sensor/actuator box, Connection method: M12-SPEEDCON-socket Plastic, Number of slots: 6, Number of positions: 5, Slot assignment: Double, Status indication: Yes, npn; Master cable connection: Fixed connection 180°, PUR/PVC, Cable length: 5 m, 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
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Save space: distributor box with double occupancy for two sensors in one slot
- ✓ Save time, thanks to installation with SPEEDCON rapid interlock system



### Key commercial data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 PCE                                                                                                   |
| Minimum order quantity | 25 PCE                                                                                                  |
| GTIN                   | <br>4 046356 782890 |
| 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 | 2 A     |
| Current carrying capacity per slot       | 4 A     |
| Total rated current                      | 12 A    |
| Number of positions                      | 5       |
| Number of slots                          | 6       |

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## Technical data

### General

|                                   |                     |
|-----------------------------------|---------------------|
| Sensor/actuator connection system | M12-SPEEDCON-socket |
|-----------------------------------|---------------------|

### Ambient conditions

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Degree of protection            | IP65                                        |
|                                 | IP67                                        |
| Ambient temperature (operation) | -25 °C ... 80 °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              |
| Tightening torque slot sensor/actuator cable | 0.4 Nm           |
| Tightening torque screw plug                 | 0.4 Nm           |

### Insulation material

|                               |             |
|-------------------------------|-------------|
| Housing material              | PBT         |
| Material of the moulding mass | PUR         |
| Contact material              | Cu alloy    |
| Contact surface material      | Gold-plated |
| Contact carrier material      | PA          |
| Material of threaded sleeve   | PBT         |
| Material, O-ring              | NBR         |

### Pin assignment

|                                          |                   |
|------------------------------------------|-------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH    |
|                                          | 1 / 2 (B) = GY/PK |
|                                          | 2 / 4 (A) = GN    |
|                                          | 2 / 2 (B) = RD/BU |
|                                          | 3 / 4 (A) = YE    |
|                                          | 3 / 2 (B) = WH/GN |
|                                          | 4 / 4 (A) = GY    |
|                                          | 4 / 2 (B) = BN/GN |
|                                          | 5 / 4 (A) = PK    |
|                                          | 5 / 2 (B) = WH/YE |
|                                          | 6 / 4 (A) = RD    |

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## Technical data

### Pin assignment

|  |                       |
|--|-----------------------|
|  | 6 / 2 (B) = YE/BN     |
|  | 1-4 / 1 (+ 24 V) = BN |
|  | 1-6 / 3 (0 V) = BU    |
|  | 1-6 / 5 (PE) = GN/YE  |

### Cable

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| Cable type                                    | PUR/PVC black                         |
| Cable type (abbreviation)                     | PUR                                   |
| Cable abbreviation                            | LiYY11Y-HF                            |
| UL AWM style                                  | 20549                                 |
| Conductor cross section                       | 12x 0.5 mm <sup>2</sup> (signal line) |
|                                               | 3x 1 mm <sup>2</sup> (power line)     |
| AWG signal line                               | 20                                    |
| AWG power supply                              | 17                                    |
| Conductor structure signal line               | 28x 0.15 mm                           |
| Conductor structure, voltage supply           | 56x 0.15 mm                           |
| Core diameter including insulation            | 1.5 mm ±0.1 mm (signal line)          |
|                                               | 2.1 mm ±0.1 mm (power line)           |
| Thickness, insulation                         | ≥ 0.15 mm (Inner sheath)              |
|                                               | ≥ 0.76 mm (Outer cable sheath)        |
| Overall twist                                 | Wires twisted in layers               |
| External sheath, color                        | Black RAL 9005                        |
| External cable diameter D                     | 9.4 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                                | 94 mm                                 |
| Traversing path                               | 2 m                                   |
| Traversing rate                               | 2 m/s                                 |
| Cable weight                                  | 150.9 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                          |

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### Technical data

#### Cable

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| 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)             |

### 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 | 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 |

### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

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#### Ex Approvals

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## Sensor/actuator box - SACB-6/12-L- 5,0PUR SCO P NPN - 1405735

### Approvals

Approvals submitted

#### Approval details

|                                                                                                 |      |
|-------------------------------------------------------------------------------------------------|------|
| UL Recognized  |      |
| Nominal voltage UN                                                                              | 24 V |

|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| cUL Recognized  |      |
| Nominal voltage UN                                                                               | 24 V |

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

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

### Accessories

Accessories

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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### Accessories

Contactor marker – zack marker strip - SS-ZB 17,5 YE - 0804976



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

Contactor marker – zack marker strip - SS-ZB 17,5 WH CUS - 0824468



Contactor marker – zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm

Contactor marker – zack marker strip - SS-ZB 17,5 YE CUS - 0824469



Contactor marker – zack marker strip, Can be ordered: Strip, yellow, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm

### Protection and sealing elements

Screw plug - PROT-MS SCO - 1553129



M12 screw plug with SPEEDCON quick locking for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors

### Tools

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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### Accessories

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Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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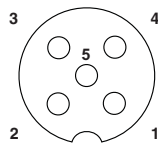
Tool - SACC BIT M12-D20 - 1208445



Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

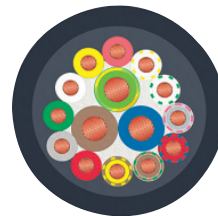
### Drawings

Schematic diagram



M12 slot, socket, 5-pos.

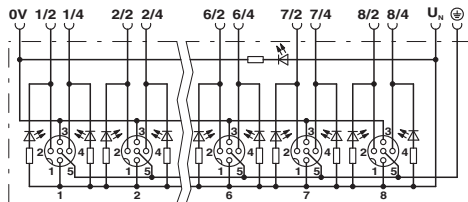
Cable cross section



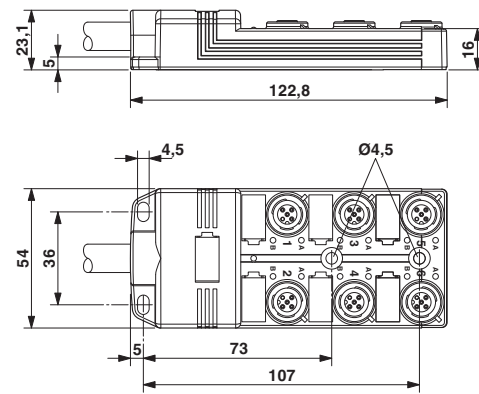
PUR/PVC black [PUR]

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Circuit diagram



Dimensioned drawing



单击下面可查看定价，库存，交付和生命周期等信息

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