

## Sensor/actuator box - SACB-4/ 8-10,0PUR SCO - 1516991

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Sensor/actuator box, Connection method: M12-SPEEDCON-socket Metal, Number of slots: 4, Number of positions: 5, Slot assignment: Double, Status indication: No, Universal; Master cable connection: Fixed connection 180°, PUR/PVC, Cable length: 10 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
- ✓ Save space: distributor box with double occupancy for two sensors in one slot
- ✓ Save time, thanks to installation with SPEEDCON fast locking system



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 PCE      |
| Weight per Piece (excluding packing) | 1661.5 GRM |
| 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 | 2 A                 |
| Current carrying capacity per slot       | 4 A                 |
| Total rated current                      | 12 A                |
| Number of positions                      | 5                   |
| Number of slots                          | 4                   |
| Inflammability class according to UL 94  | V0                  |
| Sensor/actuator connection system        | M12-SPEEDCON-socket |

#### Ambient conditions

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## Technical data

### Ambient conditions

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Degree of protection            | IP65                                        |
|                                 | IP67                                        |
|                                 | IP69K                                       |
| Ambient temperature (operation) | -30 °C ... 90 °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                              | 10 m             |
| Tightening torque slot sensor/actuator cable | 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         | Zinc die-cast |
| Material of threaded sleeve surface | Nickel-plated |
| 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      |
|                                          | 1-4 / 1 (+ 120 V) = BN |
|                                          | 1-4 / 3 (0 V) = BU     |
|                                          | 1-4 / 5 (PE) = GN/YE   |

### Cable

|                           |               |
|---------------------------|---------------|
| Cable type                | PUR/PVC black |
| Cable type (abbreviation) | PUR           |
| Cable abbreviation        | LiYY11Y-HF    |

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## Technical data

### Cable

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| UL AWM style                                  | 20549                                                      |
| Conductor cross section                       | 8x 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)                                   |
|                                               | ≥ 0.38 mm (Outer cable sheath)                             |
| Overall twist                                 | Wires twisted in layers                                    |
| External sheath, color                        | Black RAL 9005                                             |
| External cable diameter D                     | 8.7 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                                | 87 mm                                                      |
| Traversing path                               | 2 m                                                        |
| Traversing rate                               | 2 m/s                                                      |
| Cable weight                                  | 122 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 |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)               |
|                                               | -5 °C ... 80 °C (cable, flexible installation)             |

## Sensor/actuator box - SACB-4/ 8-10,0PUR SCO - 1516991

### 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 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 / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

## Sensor/actuator box - SACB-4/ 8-10,0PUR SCO - 1516991

### Approvals

|                                                                                                 |       |
|-------------------------------------------------------------------------------------------------|-------|
| UL Recognized  |       |
|                                                                                                 |       |
| Nominal current I <sub>N</sub>                                                                  | 3 A   |
| Nominal voltage U <sub>N</sub>                                                                  | 120 V |

|                                                                                                  |       |
|--------------------------------------------------------------------------------------------------|-------|
| cUL Recognized  |       |
|                                                                                                  |       |
| Nominal current I <sub>N</sub>                                                                   | 3 A   |
| Nominal voltage U <sub>N</sub>                                                                   | 120 V |

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

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

### Accessories

#### Accessories

#### 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

#### Protective cap

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### Accessories

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

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### Screwdriver tools

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

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### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



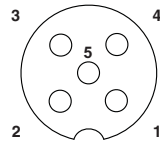
Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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### Drawings

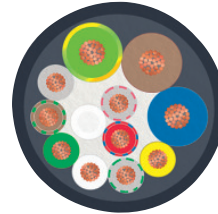
## Sensor/actuator box - SACB-4/ 8-10,0PUR SCO - 1516991

Schematic diagram



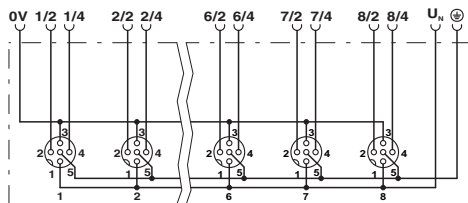
M12 slot, socket, 5-pos.

Cable cross section

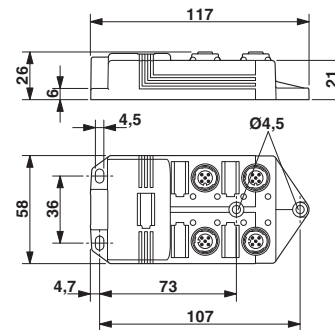


PUR/PVC black [PUR]

Circuit diagram



Dimensioned drawing



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