

Sensor/actuator box - SACB-6/12-L-10,0PUR SCO P - 1452673

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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, pnp; 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
- ✓ 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 fast locking system



Key commercial data

| | |
|--------------------------------------|------------|
| Packing unit | 1 PCE |
| Weight per Piece (excluding packing) | 1700.0 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

General

| | |
|--|---------------------|
| Rated voltage | 24 V DC |
| Max. operating voltage U_{max} | 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 |
| Sensor/actuator connection system | M12-SPEEDCON-socket |

Ambient conditions

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Technical data

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

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Technical data

Pin assignment

| | |
|--|----------------------|
| | 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 ² (signal line) |
| | 3x 1 mm ² (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 |
| 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) |

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Technical data

Cable

| | |
|--|--|
| | -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 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

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Approvals submitted

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Approvals

Approval details

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

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

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



Contact 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

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Accessories

Labeled device marker

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

Protective cap

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

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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Accessories

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

Torque tool

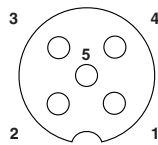
Torque screwdriver - TSD 04 SAC - 1208429



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

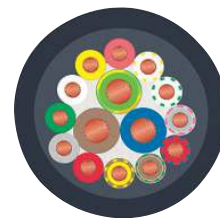
Drawings

Schematic diagram



M12 slot, socket, 5-pos.

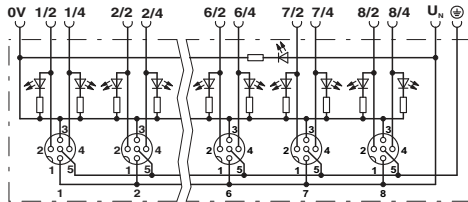
Cable cross section



PUR/PVC black [PUR]

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Circuit diagram



Dimensioned drawing

