

## Sensor/actuator box - SACB-6/12-L-C SCO P - 1452835

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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: Pluggable screw connection 180°, 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
- ✓ Flexible: distributor box with connector hood for on-site assembly



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 PCE    |
| 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                      | 10 A                |
| Number of positions                      | 5                   |
| Number of slots                          | 6                   |
| Inflammability class according to UL 94  | V0                  |
| Sensor/actuator connection system        | M12-SPEEDCON-socket |

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## Technical data

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP65             |
|                                 | IP67             |
| Ambient temperature (operation) | -25 °C ... 80 °C |

### Local diagnostics function

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

### Master cable data/connection data

|                                              |                            |
|----------------------------------------------|----------------------------|
| Connection method                            | Pluggable screw connection |
| Conductor cross section min. (signal)        | 0.14 mm <sup>2</sup>       |
| Conductor cross section max. (signal)        | 1.5 mm <sup>2</sup>        |
| Conductor cross section AWG min. (signal)    | 26                         |
| Conductor cross section AWG max. (signal)    | 16                         |
| Stripping length (signal)                    | 7 mm                       |
| Conductor cross section min. (energy)        | 0.14 mm <sup>2</sup>       |
| Conductor cross section max. (energy)        | 1.5 mm <sup>2</sup>        |
| Conductor cross section AWG min. (energy)    | 26                         |
| Conductor cross section AWG max. (energy)    | 16                         |
| External cable diameter min.                 | 7 mm                       |
| External cable diameter max.                 | 12 mm                      |
| Stripping length                             | 50 mm (Master cable)       |
| Tightening torque, cover screw               | 1 Nm                       |
| Tightening torque, union nut                 | 2.5 Nm                     |
| 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 contact, master cable side                   | CU alloy             |
| Material of contact surface, master cable side           | Sn                   |
| Material of the contact carrier on the master cable side | PA                   |
| Material of threaded sleeve                              | PBT                  |
| Material, O-ring                                         | NBR                  |
| Sealing material                                         | NBR (Connector hood) |

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### Technical data

#### 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    |
|                                          | 1-6 / 5 (PE) = GN/YE  |

### 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 |



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## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Approvals submitted

## Approval details

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

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

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

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

## Accessories

Accessories

Cable by the meter

## Sensor/actuator box - SACB-6/12-L-C SCO P - 1452835

### Accessories

Master cable ring - SACB-12X0,5/ 3X1,0-50,0 PUR - 1503360



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PVC, 15-pos., 12 x 0.50 mm² and 3 x 1.00 mm², length: 50 m

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### Device marking

Contactor marker – zack marker strip - SS-ZB 17,5 WH - 0804963



Contactor 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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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

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### 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

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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

## Sensor/actuator box - SACB-6/12-L-C SCO P - 1452835

### Accessories

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#### 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

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#### Screwdriver tools

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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Philips screwdriver - SZK PZ2 VDE - 1206463



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

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Tool - SAC BIT HOOD-W 24 - 1212486



Nut for assembling pressure nuts with 24 mm wrench size, for 4 mm hexagonal drive

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## Sensor/actuator box - SACB-6/12-L-C SCO P - 1452835

### Accessories

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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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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Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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Torque screwdriver - TSD 25 SAC - 1212315



Torque screwdriver, with preset torque of 2.5 Nm and 4 mm hexagonal drive for the pressure nut of the connector hood

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Torque screwdriver - TSD-M 3NM - 1212225

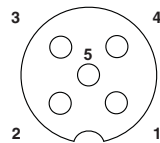


Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm

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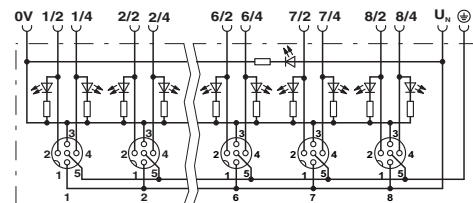
## Drawings

Schematic diagram



M12 slot, socket, 5-pos.

Circuit diagram



Dimensioned drawing

