

## Sensor/actuator box - SACB-6/ 6-SC SCO P - 1452945

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Sensor/actuator box, Connection method: M12-SPEEDCON-socket Plastic, Number of slots: 6, Number of positions: 4, Slot assignment: Single, Status indication: No, Universal; Master cable connection: Spring-cage conn. 180°, Shielding: No

Figure shows version with diagnostic and status indicator

### 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 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     |
| Weight per Piece (excluding packing) | 180.0 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### General

|                                          |                     |
|------------------------------------------|---------------------|
| Rated voltage                            | 120 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                      | 4                   |
| 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 |

### Master cable data/connection data

|                                              |                      |
|----------------------------------------------|----------------------|
| Connection method                            | Spring-cage conn.    |
| Conductor cross section min. (signal)        | 0.2 mm <sup>2</sup>  |
| Conductor cross section max. (signal)        | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG min. (signal)    | 24                   |
| Conductor cross section AWG max. (signal)    | 20                   |
| Stripping length (signal)                    | 6 mm                 |
| Conductor cross section min. (energy)        | 0.2 mm <sup>2</sup>  |
| Conductor cross section max. (energy)        | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min. (energy)    | 24                   |
| Conductor cross section AWG max. (energy)    | 16                   |
| Stripping length (power)                     | 10 mm                |
| 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 threaded sleeve   | PBT                  |
| Material, O-ring              | NBR                  |
| Sealing material              | NBR (Connector hood) |

### Pin assignment

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

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### Technical data

#### Pin assignment

|  |                        |
|--|------------------------|
|  | 6 / 4 (A) = RD         |
|  | 1-6 / 1 (+ 120 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 | 27449001 |

#### 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

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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/ 6-SC SCO P - 1452945

### Approvals

Approvals submitted

#### Approval details

|                                                                                                 |       |
|-------------------------------------------------------------------------------------------------|-------|
| UL Recognized  |       |
| Nominal voltage UN                                                                              | 120 V |

|                                                                                                  |       |
|--------------------------------------------------------------------------------------------------|-------|
| cUL Recognized  |       |
| Nominal voltage UN                                                                               | 120 V |

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

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

### Accessories

#### Accessories

##### Cable by the meter

Master cable ring - SACB- 6X0,34/ 3X0,75-50,0 PUR - 1503331



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PVC, 9-pos., 6 x 0.34 mm<sup>2</sup> and 3 x 0.75 mm<sup>2</sup>

#### Connector

## Sensor/actuator box - SACB-6/ 6-SC SCO P - 1452945

### Accessories

Ferrule - A 0,5 - 6 - 3200218



Ferrule, Length: 6 mm, Color: silver

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Ferrule - A 0,75-10 - 3200234



Ferrule, Length: 10 mm, Color: silver

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Ferrule - A 1 -10 - 3200250



Ferrule, Length: 10 mm, Color: silver

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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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## Sensor/actuator box - SACB-6/ 6-SC SCO P - 1452945

### 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

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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

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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

## Sensor/actuator box - SACB-6/ 6-SC SCO P - 1452945

### Accessories

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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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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Screwdriver - SZS 0,4X2,0 - 1205202



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

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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

## Sensor/actuator box - SACB-6/ 6-SC SCO P - 1452945

### Accessories

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



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

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

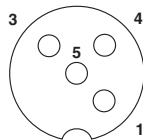
Torque screwdriver - TSD-M 3NM - 1212225



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

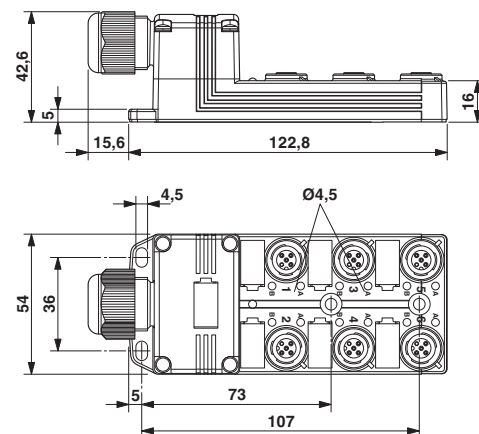
### Drawings

Schematic diagram



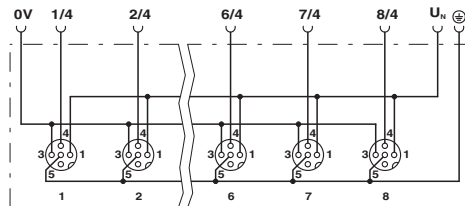
M12 slot, socket, 4-pos.

Dimensioned drawing



## Sensor/actuator box - SACB-6/ 6-SC SCO P - 1452945

Circuit diagram



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кабельные сборки и микроволновые компоненты:

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