

## Sensor/actuator box - SACB-8/16-L-10,0PVC FB - 1555554

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Sensor/actuator box, M12 socket, 8 slots, 5-pos., double occupancy, status indicator: yes, pnp, master cable connection: Fixed connection 180°, PVC, cable length: 10 m, shielding: No

### Your advantages

- ✓ 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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 170536 |
| GTIN                                 | 4046356170536                                                                                           |
| Weight per Piece (excluding packing) | 2,831.400 g                                                                                             |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### 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       |

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## Technical data

### General

|                                   |                                                                                                                                                                                                                                               |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of slots                   | 8                                                                                                                                                                                                                                             |
| Sensor/actuator connection system | M12 socket                                                                                                                                                                                                                                    |
| Note                              | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
|                                   | Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".                                                                                                                      |

### Ambient conditions

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Degree of protection            | IP65                                        |
|                                 | IP67                                        |
|                                 | IP69K                                       |
| Ambient temperature (operation) | -30 °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 data/connection data

|                                              |                         |
|----------------------------------------------|-------------------------|
| Connection method                            | Fixed connection        |
| Length of cable                              | 10 m                    |
| Signal line cross section                    | 16x 0.5 mm <sup>2</sup> |
| AWG signal line                              | 20                      |
| Conductor structure signal line              | 64x 0.10 mm             |
| Power supply cross section                   | 3x 1 mm <sup>2</sup>    |
| AWG power supply                             | 17                      |
| Conductor structure, voltage supply          | 128x 0.10 mm            |
| External diameter                            | 11.6 mm                 |
| Max. bending cycles                          | 1000000                 |
| Traversing path                              | 5 m                     |
| Traversing rate                              | 3 m/s                   |
| Tightening torque slot sensor/actuator cable | 0.4 Nm                  |

### Insulation material

|                               |                        |
|-------------------------------|------------------------|
| Housing material              | Stainless steel 1.4404 |
| Material of the moulding mass | PUR                    |
| Contact material              | CuSn6                  |
| Contact surface material      | gold-plated            |

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### Technical data

#### Insulation material

|                             |                        |
|-----------------------------|------------------------|
| Contact carrier material    | PBT                    |
| Material of threaded sleeve | Stainless steel 1.4404 |
| O-ring material             | FKM                    |

#### 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     |
|                                          | 7 / 4 (A) = BK        |
|                                          | 7 / 2 (B) = WH/GY     |
|                                          | 8 / 4 (A) = VT        |
|                                          | 8 / 2 (B) = GY/BN     |
|                                          | 1-8 / 1 (+ 24 V) = BN |
|                                          | 1-8 / 3 (0 V) = BU    |
|                                          | 1-8 / 5 (PE) = GN/YE  |

#### Standards and Regulations

|                          |                               |
|--------------------------|-------------------------------|
| Standards/specifications | M12 connector IEC 61076-2-101 |
|--------------------------|-------------------------------|

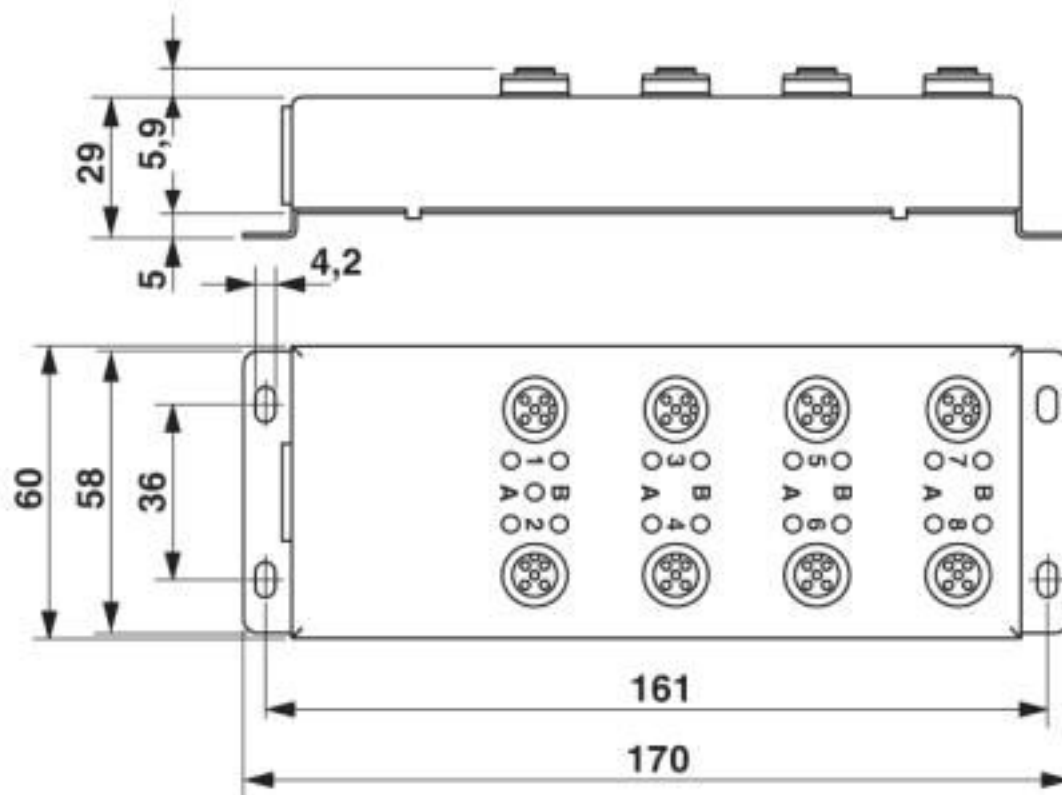
#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

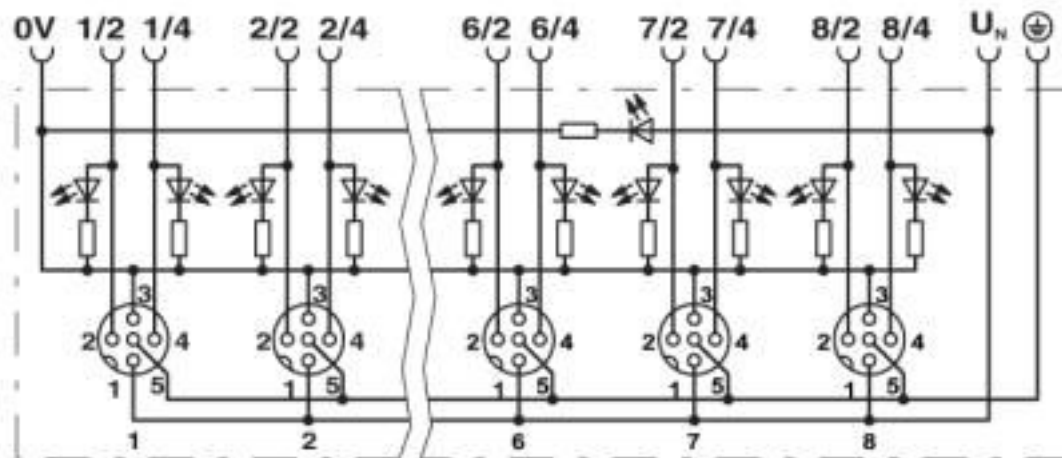
## Sensor/actuator box - SACB-8/16-L-10,0PVC FB - 1555554

Dimensional drawing



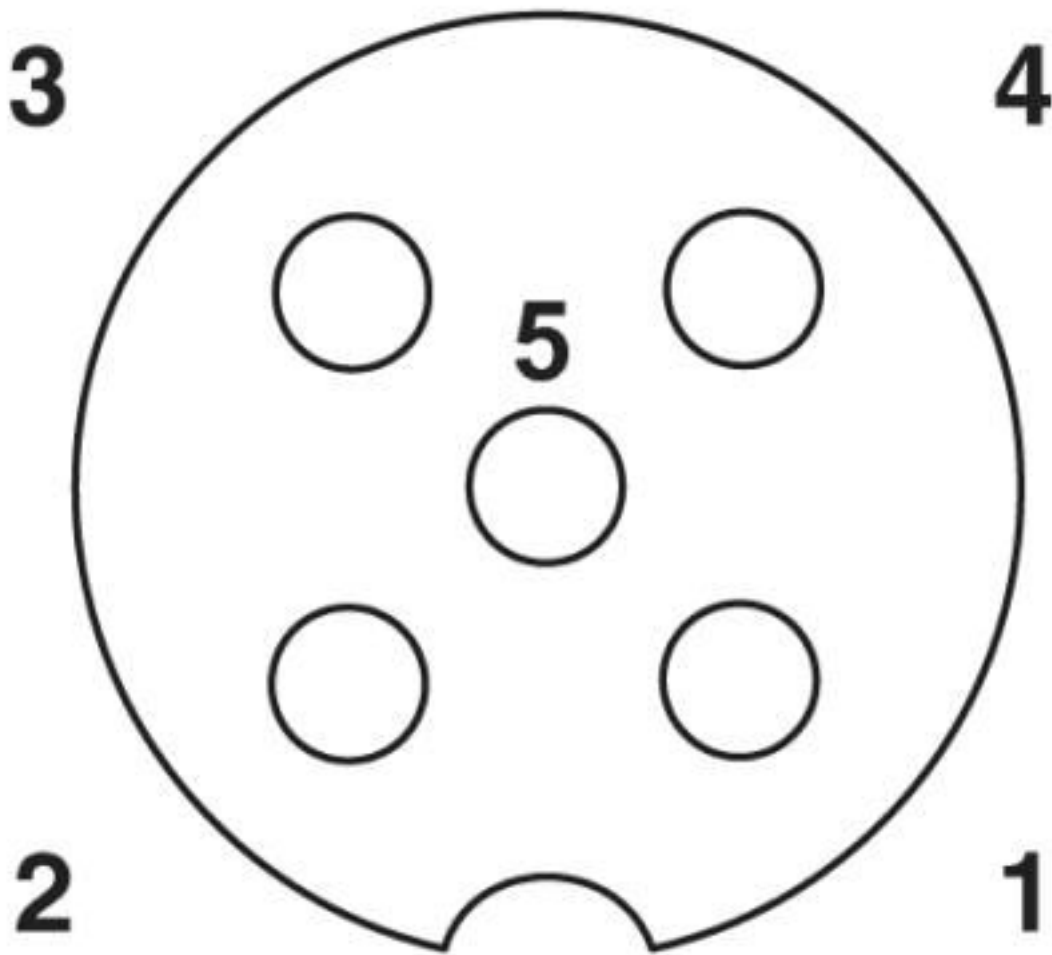
Dimensional drawing

Circuit diagram



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Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440108 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27250300 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279219 |
| eCl@ss 8.0    | 27279219 |

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### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 9.0 | 27440108 |
|------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001856 |
| ETIM 4.0 | EC002585 |
| ETIM 5.0 | EC002585 |
| ETIM 6.0 | EC002585 |
| ETIM 7.0 | EC002585 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 19.0   | 31251501 |
| UNSPSC 20.0   | 31251501 |
| UNSPSC 21.0   | 31251501 |

### Approvals

#### Approvals

Approvals

EAC / EAC

Ex Approvals

#### Approval details

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

## Sensor/actuator box - SACB-8/16-L-10,0PVC FB - 1555554

### Accessories

#### Accessories

Plug for cable screw gland

Screw plug - PROT-M12 FB - 1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry