

# SACB- 4/3-L-PTP-M8 HD - Distributor box



1197604

<https://www.phoenixcontact.com/pc/products/1197604>

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Distributor box, application: Standard, connection method: M8 socket Metal, number of slots: 4, number of positions: 3, coding: A, slot assignment: single, status display: Yes, PNP; master cable connection: Plug-in push-in spring-cage connection 180°, shielding: no

## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1197604       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | BF3BCD        |
| GTIN                                 | 4063151256593 |
| Weight per piece (including packing) | 190.2 g       |
| Weight per piece (excluding packing) | 22.22 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                     |                                                                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assembly note       | <b>NOTE:</b> 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. |
| Note on application | Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".                                                                                                                             |

### Product properties

|                     |                 |
|---------------------|-----------------|
| Product type        | Distributor box |
| Application         | Standard        |
| Number of positions | 3               |
| Number of slots     | 4               |
| Coding              | A               |
| LED                 | yes             |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### System properties

#### Local diagnostics

|                        |                |
|------------------------|----------------|
| Monitored function     | Supply voltage |
| Optical representation | Green LED      |

### Electrical properties

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Max. operating voltage $U_{max}$        | 30 V DC                       |
| Local diagnostics                       | Supply voltage Green LED      |
|                                         | Status display I/O Yellow LED |
| Nominal voltage $U_N$                   | 24 V DC                       |
| Rated current, total                    | 8 A                           |
| Max. current carrying capacity per path | 2 A                           |
| Current carrying capacity per slot      | 2 A                           |

### Connection data

#### Conductor connection

|                                                    |                                             |
|----------------------------------------------------|---------------------------------------------|
| Sensor/actuator connection system                  | M8 socket                                   |
| Conductor cross section Flexible signal line       | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section Flexible power supply      | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG Flexible signal line  | 24 ... 16                                   |
| Connection cross section AWG Flexible power supply | 24 ... 16                                   |
| Stripping length Signal line                       | 10 mm                                       |
| Stripping length of the sheath                     | 70 mm (Master cable)                        |

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|                                                            |        |
|------------------------------------------------------------|--------|
| Tightening torque, cover screw                             | 1 Nm   |
| Tightening torque of mounting screw for fixing the housing | 0.8 Nm |

## Pin assignment

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 1 / 4                 |
|                                          | 2 / 4 (A) = 2 / 4                 |
|                                          | 3 / 4 (A) = 3 / 4                 |
|                                          | 4 / 4 (A) = 4 / 4                 |
|                                          | 1-4 / 1 (+ 24 V) = U <sub>N</sub> |
|                                          | 1-4 / 3 (0 V) = 0 V               |

## Signaling

|                        |     |
|------------------------|-----|
| Status display present | Yes |
|------------------------|-----|

## Dimensions

|                          |        |
|--------------------------|--------|
| Dimensional drawing      |        |
| Width                    | 30 mm  |
| Height                   | 49 mm  |
| Length                   | 137 mm |
| Wrench size, union nut   | 24 mm  |
| Wrench size, counter nut | 24 mm  |

## Material specifications

|                                                          |            |
|----------------------------------------------------------|------------|
| Material Threaded sleeve                                 | Cu alloy   |
| Material Housing                                         | PBT        |
| Material Molding compound                                | PUR        |
| Seal material O-ring                                     | FKM        |
| Seal material                                            | FKM        |
| Contact material                                         | CuZn       |
| Contact surface material                                 | Ni/Au      |
| Contact carrier material                                 | PBT        |
| Material of contact, master cable side                   | CU alloy   |
| Material of the contact carrier on the master cable side | PA         |
| Material of contact surface, master cable side           | tin-plated |

## Cable/line

|                   |                                        |
|-------------------|----------------------------------------|
| Connection method | Plug-in push-in spring-cage connection |
|-------------------|----------------------------------------|

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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M8 connector    |
| Standards/specifications | IEC 61076-2-104 |

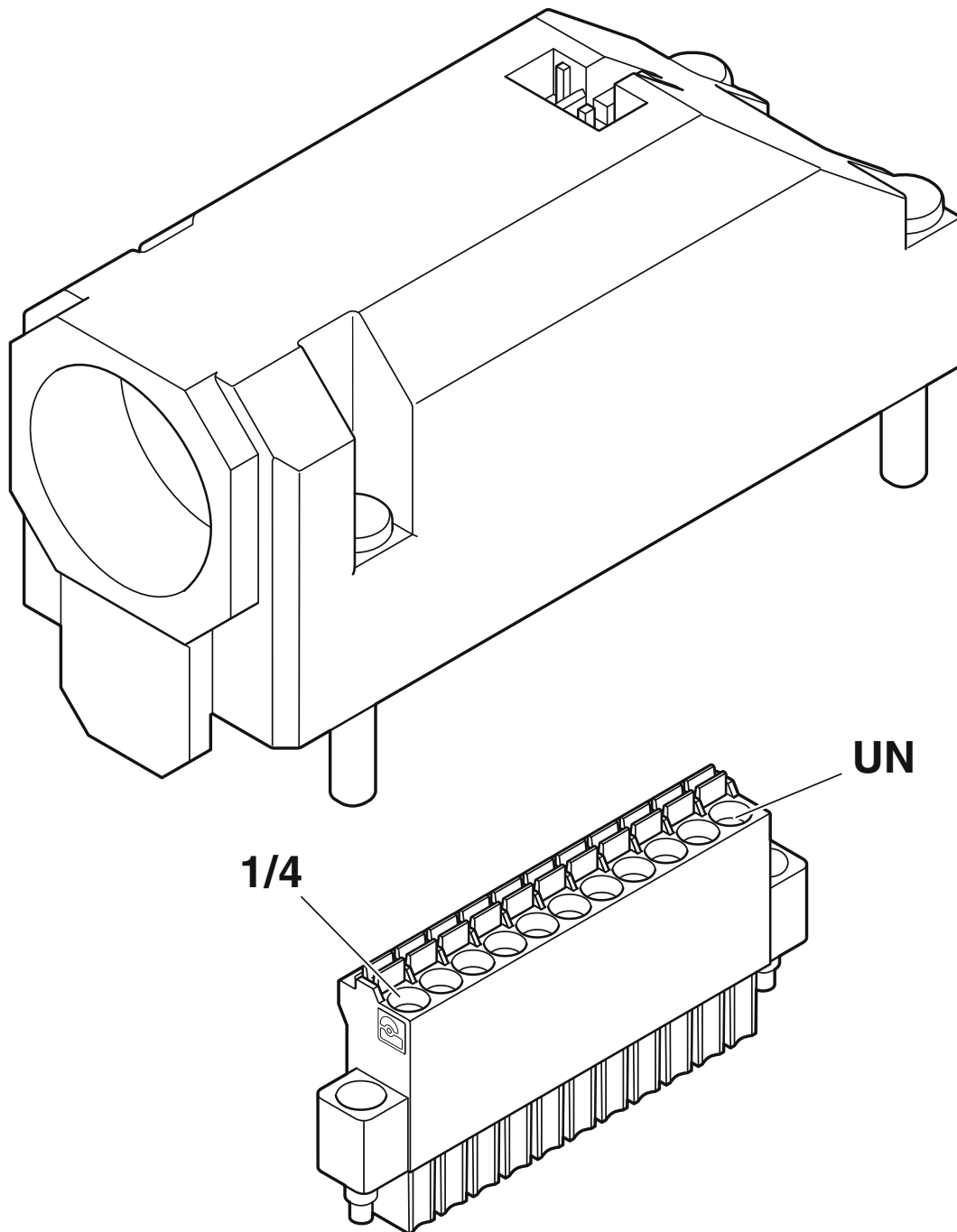
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## Drawings

Schematic diagram



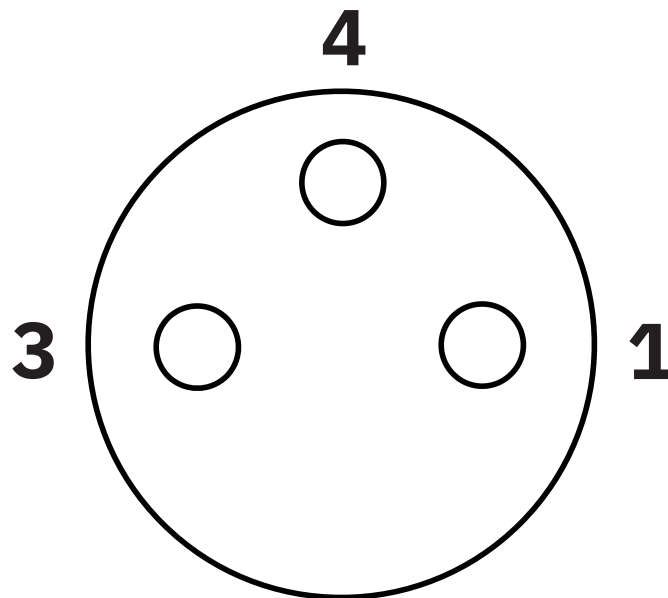
PCB connector positioning - the UN connection is on the end of the connector hood opposite the cable gland

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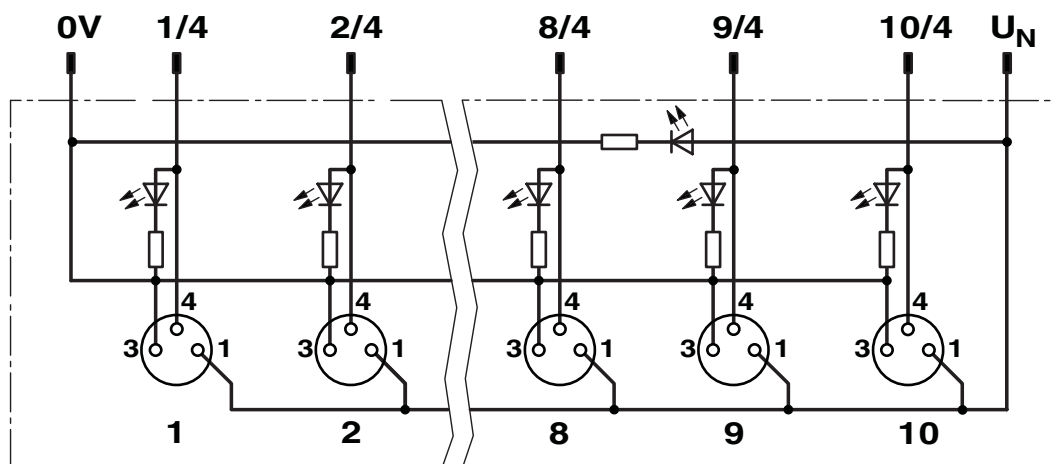
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Schematic diagram



M8 slot, socket, 3-pos.

Circuit diagram

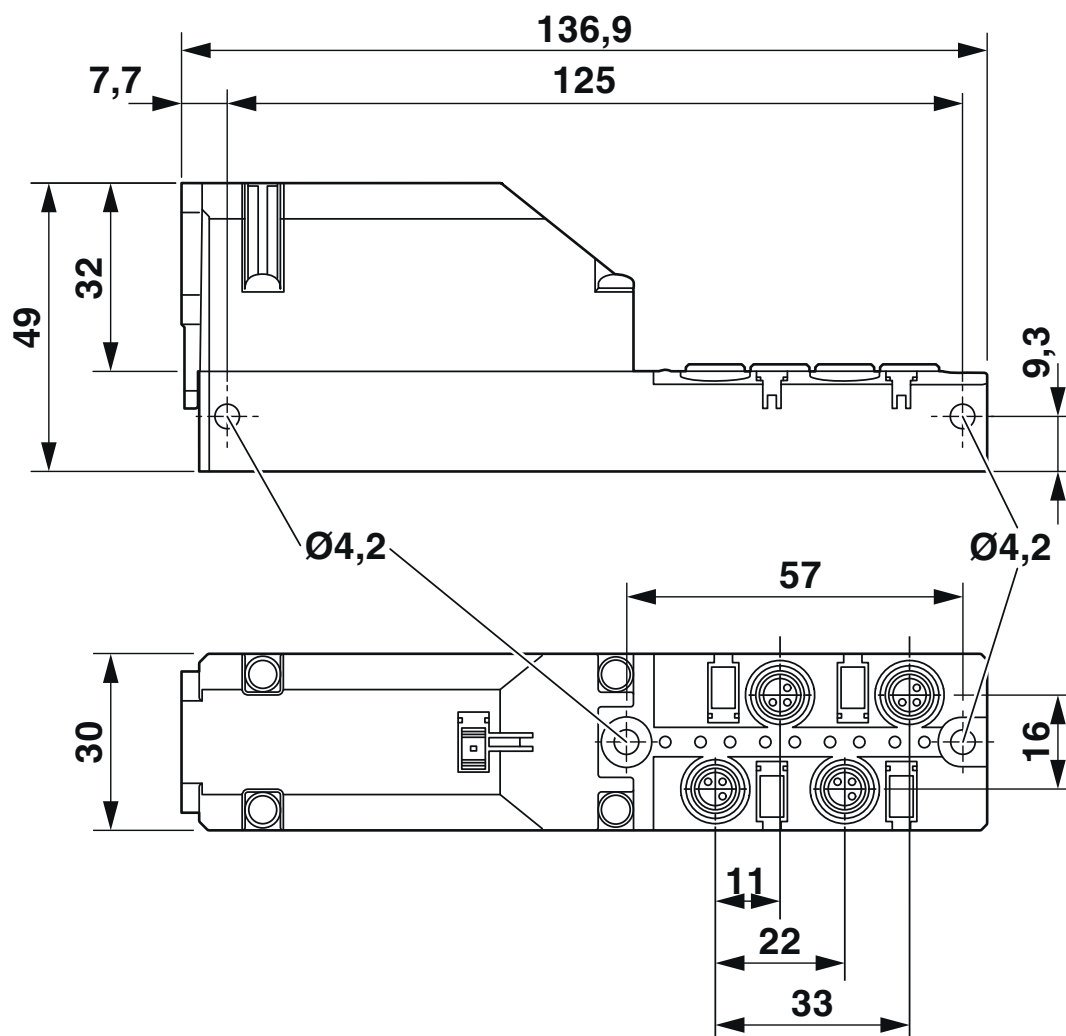


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Dimensional drawing



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440111 |
| ECLASS-12.0 | 27440111 |
| ECLASS-13.0 | 27440111 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003558 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|



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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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## Accessories

### SACB-PT-H180- 4/3-M8 HD - Connector hood

1197651

<https://www.phoenixcontact.com/pc/products/1197651>



Connector hood, application: Standard, connection method: M8 socket Metal, number of slots: 4, number of positions: 3, slot assignment: single, status display: No, Universal; master cable connection: Plug-in push-in spring-cage connection 180°, shielding: no

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### SACB- 4X0,34/2X0,75-50 PUR - Master cable ring

1517576

<https://www.phoenixcontact.com/pc/products/1517576>



Master cable for sensor/actuator boxes, without PE conductor, unshielded, material PUR/PVC, 6-pos., 4 x 0.34 mm<sup>2</sup> and 2 x 0.75 mm<sup>2</sup>, length: 50 m

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## UCT-TM 6 - Marker for terminal blocks

0828736

<https://www.phoenixcontact.com/pc/products/0828736>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

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## PROT-M8 - Screw plug

1682540

<https://www.phoenixcontact.com/pc/products/1682540>



An M8 screw plug for the unoccupied M8 sockets of the sensor/actuator cable, boxes and flush-type connectors

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## TSD 25 SAC - Torque screwdriver

1212315

<https://www.phoenixcontact.com/pc/products/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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## SAC BIT HOOD-W 24 - Tool

1212486

<https://www.phoenixcontact.com/pc/products/1212486>



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

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## SZK PZ2 VDE - Screwdriver

1206463

<https://www.phoenixcontact.com/pc/products/1206463>



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

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## TSD 02 SAC - Torque screwdriver

1208487

<https://www.phoenixcontact.com/pc/products/1208487>



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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### SAC BIT M8-D10 - Tool

1208461

<https://www.phoenixcontact.com/pc/products/1208461>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

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### SACC BIT M8-D12 - Tool

1208474

<https://www.phoenixcontact.com/pc/products/1208474>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

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## SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/pc/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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## SF-BIT-SL 0,45X2,4-70 - Screw insert

1212607

<https://www.phoenixcontact.com/pc/products/1212607>



Screw bit, slotted, E6.3-1/4" drive, size: 0.45 x 2.4 x 70 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

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## SF-M BH - Screwdriver

1212070

<https://www.phoenixcontact.com/pc/products/1212070>



Bit screwdriver, with 1/4" quick-action chuck, handle length 119 mm, 2-component handle, with non-slip grip, suitable for bits according to DIN 3126-C 6.3 and E 6.3/ISO 1173, magnetic

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