# SACB- 8/3-L- 7,5PUR-M8 HD - Distributor box

1197332

https://www.phoenixcontact.com/in/products/1197332

**PHŒNIX CONTACT**

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Distributor box, application: Standard, connection method: M8 socket Metal, number of slots: 8, number of positions: 3, coding: A, slot assignment: single, status display: Yes, PNP; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 7.5 m, 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

## Commercial data

| | |
|---|---|
| Item number | 1197332 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | ***** |
| Product key | AF3BCA |
| GTIN | 4063151256364 |
| Weight per piece (including packing) | 865 g |
| Weight per piece (excluding packing) | 835.6 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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## Technical data

### Notes

| | |
|---|---|
| Assembly note | NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce 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 | 8 |
| Coding | A |
| LED | yes |

### 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 | 6 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 |
| Tightening torque slot sensor/actuator cable | 0.2 Nm |

#### 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 |
| | 6 / 4 (A) = RD |

| | |
|---|---|
| | 7 / 4 (A) = BK |
| | 8 / 4 (A) = VT |
| | 1-8 / 1 (+ 24 V) = BN |
| | 1-8 / 3 (0 V) = BU |

## Signaling

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

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 30 mm |
| Height | 20 mm |
| Length | 129.5 mm |

## Material specifications

| | |
|---|---|
| Material Threaded sleeve | Cu alloy |
| Material Housing | PBT |
| Material Molding compound | PUR |
| Seal material O-ring | FKM |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PBT |

## Cable/line

| | |
|---|---|
| Cable length | 7.5 m |

### PUR/PVC black [PUR]

| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 92 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 10 |
| Shielded | no |

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| | |
|---|---|
| Cable type | PUR/PVC black [PUR] |
| Conductor structure signal line | 19x 0.15 mm |
| AWG signal line | 22 |
| Conductor structure, voltage supply | 42x 0.15 mm |
| AWG power supply | 18 |
| Conductor cross section | 8x 0.34 mm² (Signal line) |
| | 2x 0.75 mm² (power line) |
| Wire diameter incl. insulation | 1.3 mm ±0.1 mm (Signal line) |
| | 1.8 mm ±0.1 mm (power line) |
| External cable diameter | 7.90 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black RAL 9005 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown, blue, white, green, yellow, gray, pink, red, black, violet |
| Inner sheath thickness | ≥ 0.15 mm |
| Thickness, outer sheath | ≥ 0.38 mm |
| Overall twist | Wires twisted in layers |
| Nominal voltage, cable | 300 V |
| Test voltage | 2000 V |
| Minimum bending radius, fixed installation | 7.5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 60 mm |
| Smallest bending radius, movable installation | 79 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 1500000, Bending radius: 79 mm, Traversing path: 2 m, Traversing rate: 2 m/s |
| Flame resistance | DIN EN 50265 |
| Resistance to oil | according to VDE 0472 Part 803 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
| Special properties | Silicone-free |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) |
| | -5 °C ... 80 °C (Cable, flexible installation) |
| | 80 °C (in acc. with UL) |

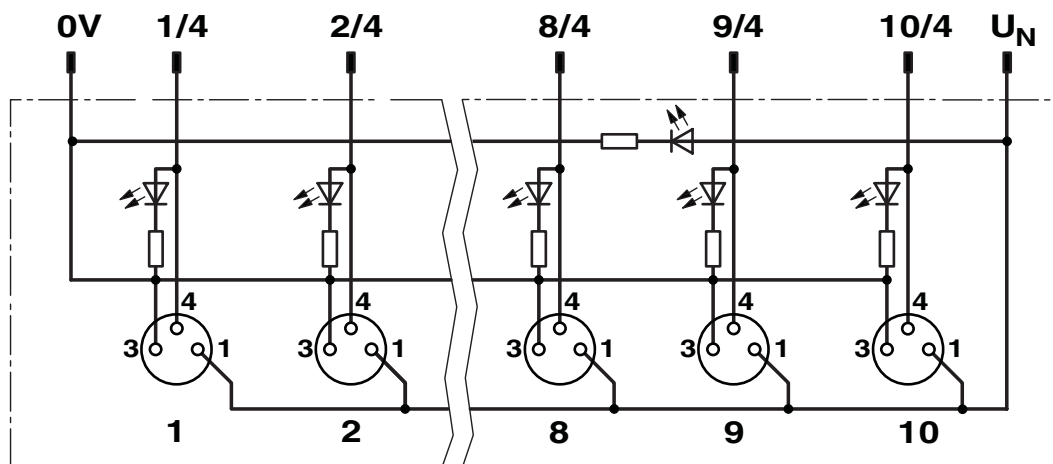## Environmental and real-life conditions

### Ambient conditions

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

### Standards and regulations

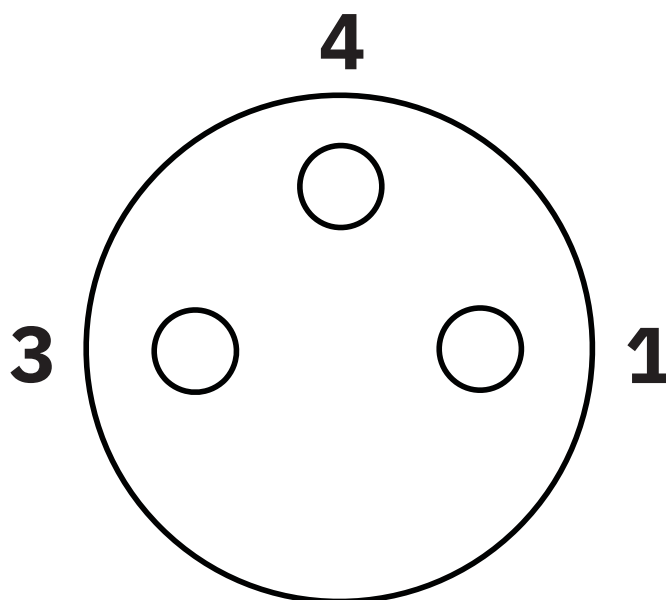| | |
|---|---|
| Standard designation | M8 connector |
| Standards/specifications | IEC 61076-2-104 |

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## Drawings

Circuit diagram
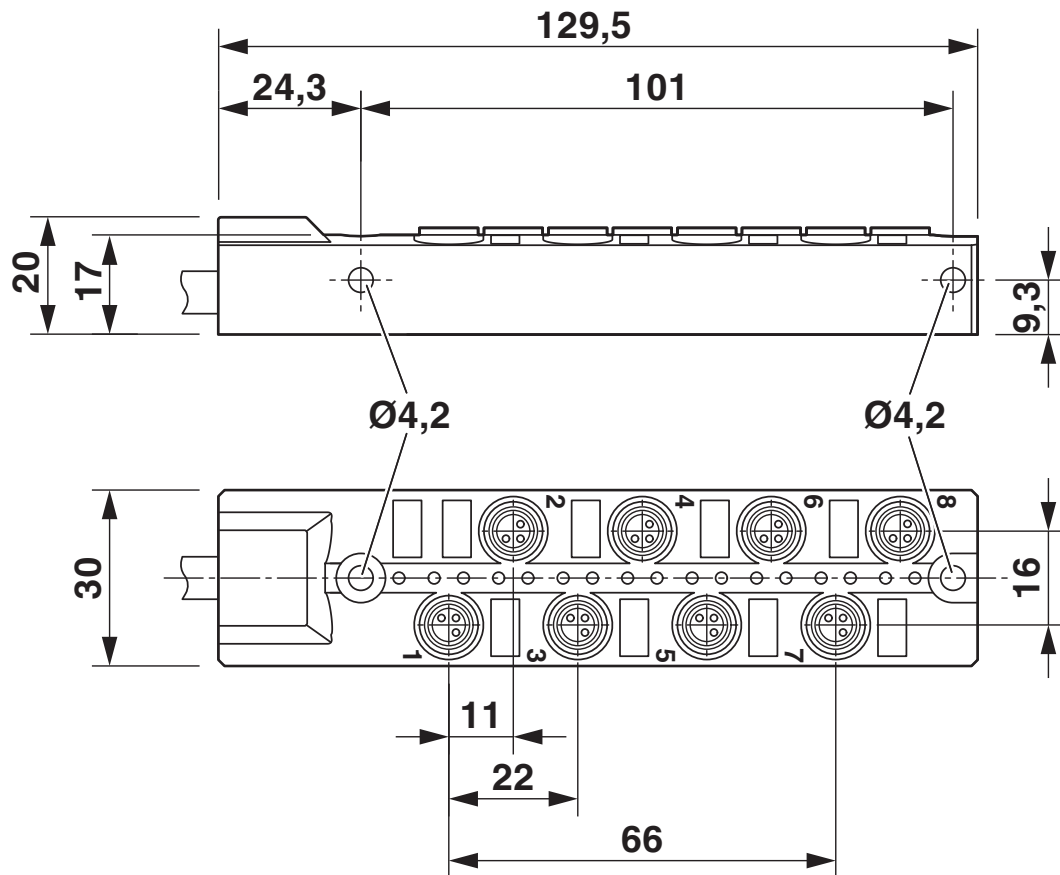
Dimensional drawing

Schematic diagram

**4**

**3**          **1**

M8 slot, socket, 3-pos.

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1197332

### UL Recognized
Approval ID: FILE E 118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 24 V | - | - | - |

### cUL Recognized
Approval ID: FILE E 118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 24 V | - | - | - |

### cULus Recognized

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440108 |
| ECLASS-12.0 | 27440108 |
| ECLASS-13.0 | 27440108 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002585 |

### UNSPSC

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

## 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

### UCT-TM 6 - Marker for terminal blocks

0828736

https://www.phoenixcontact.com/in/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: latching, for terminal block width: 6.2 mm, Number of individual labels: 60, text field height: 10.5 mm, text field width: 5.6 mm

### PROT-M8 - Screw plug

1682540

https://www.phoenixcontact.com/in/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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## WIREFOX-D 40 - Stripping tool

1212161

https://www.phoenixcontact.com/in/products/1212161

**Stripping tool,** for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

## WIREFOX-D 11 - Stripping tool

1212160

https://www.phoenixcontact.com/in/products/1212160

Stripping tool, for stripping multicore signal, control and fiberglass wires of Ø 2.5 - 11 mm. Insulation thickness up to 1 mm

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## WIREFOX-D 13 - Stripping tool

1212162

https://www.phoenixcontact.com/in/products/1212162

Stripping tool, for stripping installation lines of Ø 8 - 13 mm , e.g. NYM 3 x 1.5 $mm^2$ to 5 x 2.5 $mm^2$, single line stripping 0.2 $mm^2$ - 4 $mm^2$ , with longitudinal cut blade and sliding knife

## WIREFOX-MP VDE - Stripping tool

1212528

https://www.phoenixcontact.com/in/products/1212528

Multifunction stripping tool, for removing the jacket from cables with a diameter of 8 to 13 mm, for stripping cables with a cross section of 0.2 to 10 $mm^2$, with full-fledged diagonal cutter, VDE 1000 V AC/1500 V DC tested

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## WIREFOX 2,5 - Stripping tool

1212368

https://www.phoenixcontact.com/in/products/1212368

Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm$^2$ stranded/1.5 mm$^2$ solid

## TSD 02 SAC - Torque screwdriver

1208487

https://www.phoenixcontact.com/in/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/in/products/1208461

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

## SACC BIT M8-D12 - Tool

1208474

https://www.phoenixcontact.com/in/products/1208474

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