# SACB- 8/3-L-M16-M8 HD - Distributor box

1166980

https://www.phoenixcontact.com/us/products/1166980

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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: M16 plug connection 90°, 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 | 1166980 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF40 |
| Weight per piece (excluding packing) | 140 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# 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 per module |
| Optical representation | Green LED |

## Electrical properties

| | |
|---|---|
| Max. operating voltage $U_{max}$ | 30 V DC |
| Local diagnostics | Supply voltage per module 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 |
| Tightening torque - master cable - plug connection | 1.5 Nm |
| Tightening torque of mounting screw for fixing the housing | 0.8 Nm |

### Connection assignment

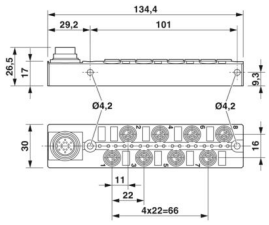
| | |
|---|---|
| Slot/position = Wire color or connection | 1 / 4 (A) = P |
| | 2 / 4 (A) = J |
| | 3 / 4 (A) = T |
| | 4 / 4 (A) = S |

| | |
|---|---|
| | 5 / 4 (A) = G |
| | 6 / 4 (A) = R |
| | 7 / 4 (A) = E |
| | 8 / 4 (A) = O |
| | 1-8 / 1 (+ 24 V) = A+M |
| | 1-8 / 3 (0 V) = L+U |

## Signaling

| | |
|---|---|
| Status display present | yes |

## Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 30 mm |
| Height | 27 mm |
| Length | 134.4 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 |
| Material of contact, master cable side | CU alloy |

## Cable/line

| | |
|---|---|
| Connection method | M16 plug connection |

## Environmental and real-life conditions

Ambient conditions

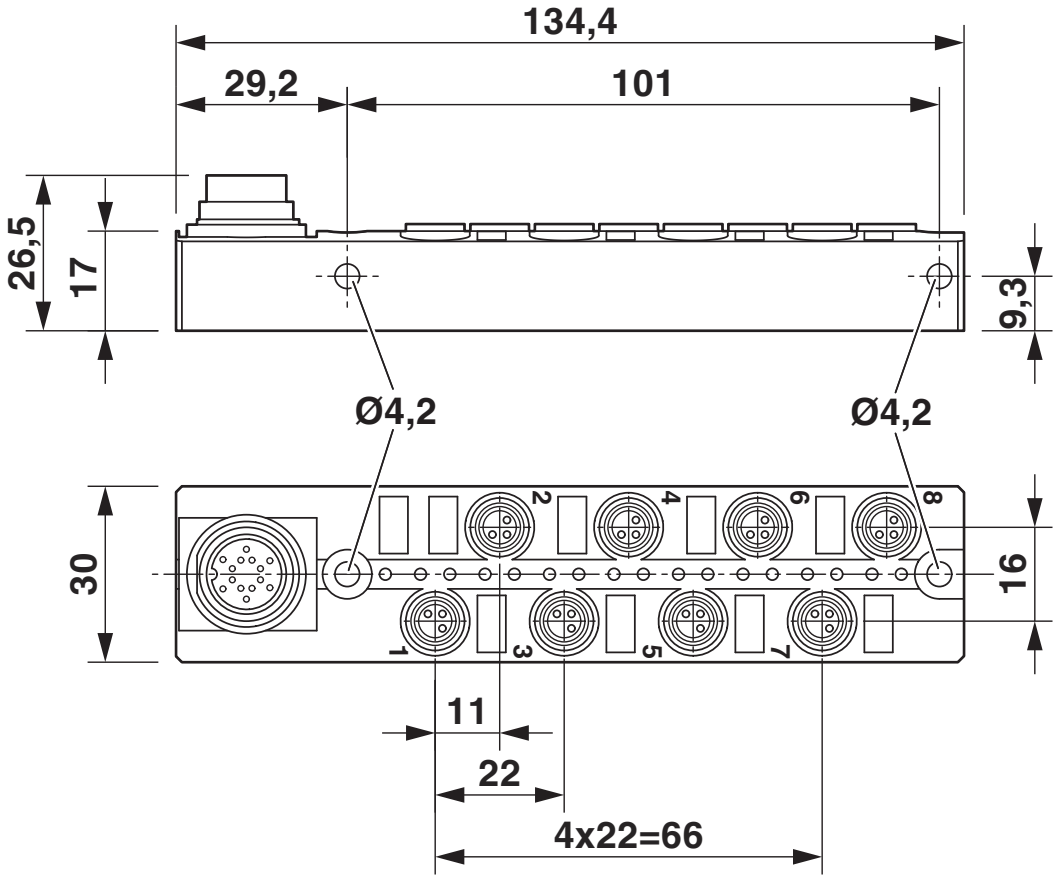
| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -20 °C ... 80 °C |

## Standards and regulations

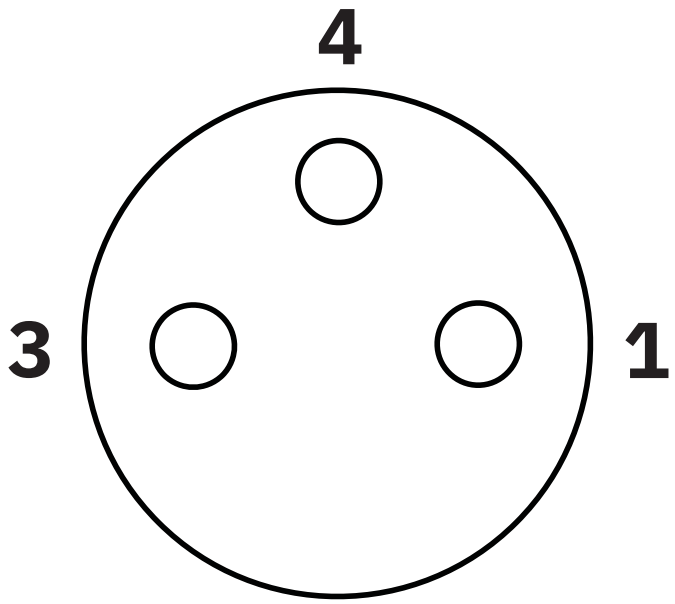
| | |
|---|---|
| Standard designation | M8 connector |
| Standards/specifications | IEC 61076-2-104 |

## Drawings

Dimensional drawing

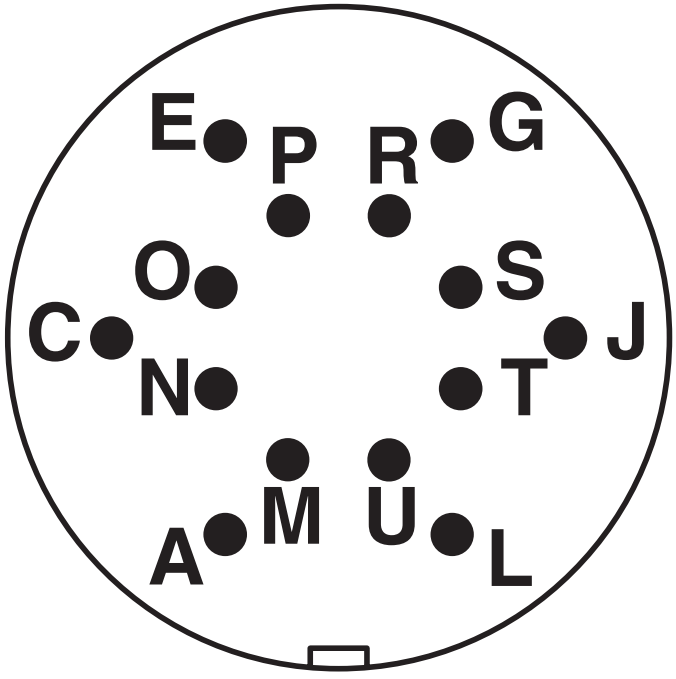


Schematic diagram



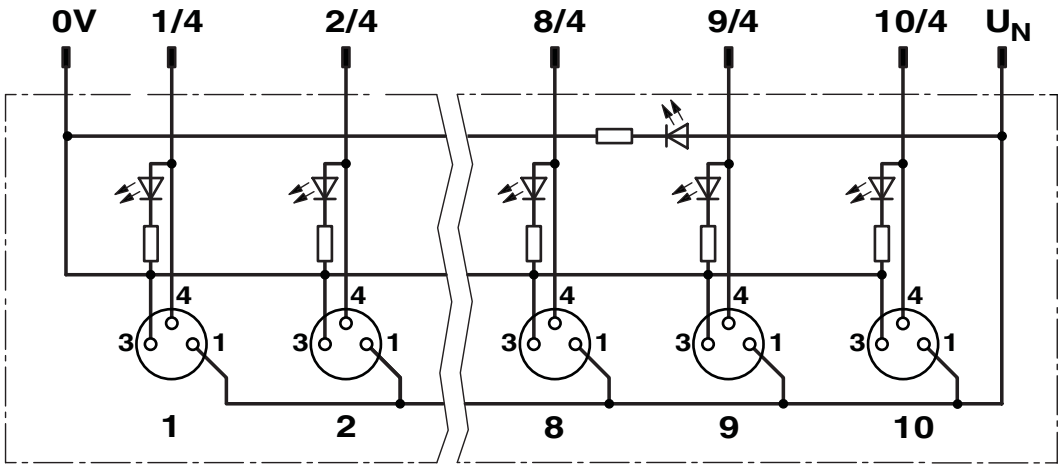

M8 slot, socket, 3-pos.

Schematic diagram




M16 plug connection pin, 14-pos.

Circuit diagram




Further information can be found in the connection assignment section

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440111 |
| ECLASS-15.0 | 27440111 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC003558 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 2f1b2e52-53c5-4eb9-879d-ba295faa0e22 |


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