# SACB-8/16-L-PTP P12 - Distributor box

1491632

https://www.phoenixcontact.com/ca/products/1491632

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Distributor box, application: Standard, connection method: M12 PUSH-PULL female connector / M12 socket, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: yes, PNP; master cable connection: plug-in push-in spring connection 180°, shielding: no

## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Fast, secure installation of connectors with the push-pull fast-locking system in accordance with IEC 61076-2-010
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

| | |
|---|---|
| Item number | 1491632 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | AF3CBD |
| GTIN | 4063151937140 |
| Weight per piece (including packing) | 270 g |
| Weight per piece (excluding packing) | 270 g |
| 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". |
| Note regarding documentation | For details about the used PCB connectors FMC 1,5/10-STF-3,5 - 1966172, refer to the technical data for the item |

## Product properties

| | |
|---|---|
| Product type | Distributor box |
| Application | Standard |
| Number of positions | 5 |
| Number of slots | 8 |
| Coding | A |

## Electrical properties

| | |
|---|---|
| Max. operating voltage $U_{max}$ | 30 V DC |
| 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 | 4 A |

## Connection data

### Conductor connection

| | |
|---|---|
| Sensor/actuator connection system | M12 PUSH-PULL female connector |
| Conductor cross section Flexible signal line | 0.2 mm² ... 1 mm² |
| Conductor cross section Flexible power supply | 0.2 mm² ... 1 mm² |
| Connection cross section AWG Flexible signal line | 24 ... 16 |
| Connection cross section AWG Flexible power supply | 24 ... 16 |
| Stripping length Signal line | 8 mm |
| Stripping length Power supply | 8 mm |
| Stripping length of the sheath | 50 mm (Master cable) |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |
| Tightening torque, union nut | 5 Nm |

### Connection assignment

| | |
|---|---|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH |
| | 1 / 2 (B) = GYPK |
| | 2 / 4 (A) = GN |
| | 2 / 2 (B) = RDBU |
| | 3 / 4 (A) = YE |

| | |
|---|---|
| | 3 / 2 (B) = WHGN |
| | 4 / 4 (A) = GY |
| | 4 / 2 (B) = BNGN |
| | 5 / 4 (A) = PK |
| | 5 / 2 (B) = WHYE |
| | 6 / 4 (A) = RD |
| | 6 / 2 (B) = YEBN |
| | 7 / 4 (A) = BK |
| | 7 / 2 (B) = WHGY |
| | 8 / 4 (A) = VT |
| | 8 / 2 (B) = GYBN |
| | 1-8 / 1 (+ 24 V) = BN |
| | 1-8 / 3 (0 V) = BU |
| | 1-8 / 5 (PE) = GNYE |

## Signaling

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

## Material specifications

| | |
|---|---|
| Material Housing | PBT |
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA |

## Cable/line

| | |
|---|---|
| External cable diameter | 7 mm ... 12 mm |
| Connection method | plug-in push-in spring connection |

## Environmental and real-life conditions

### Ambient conditions

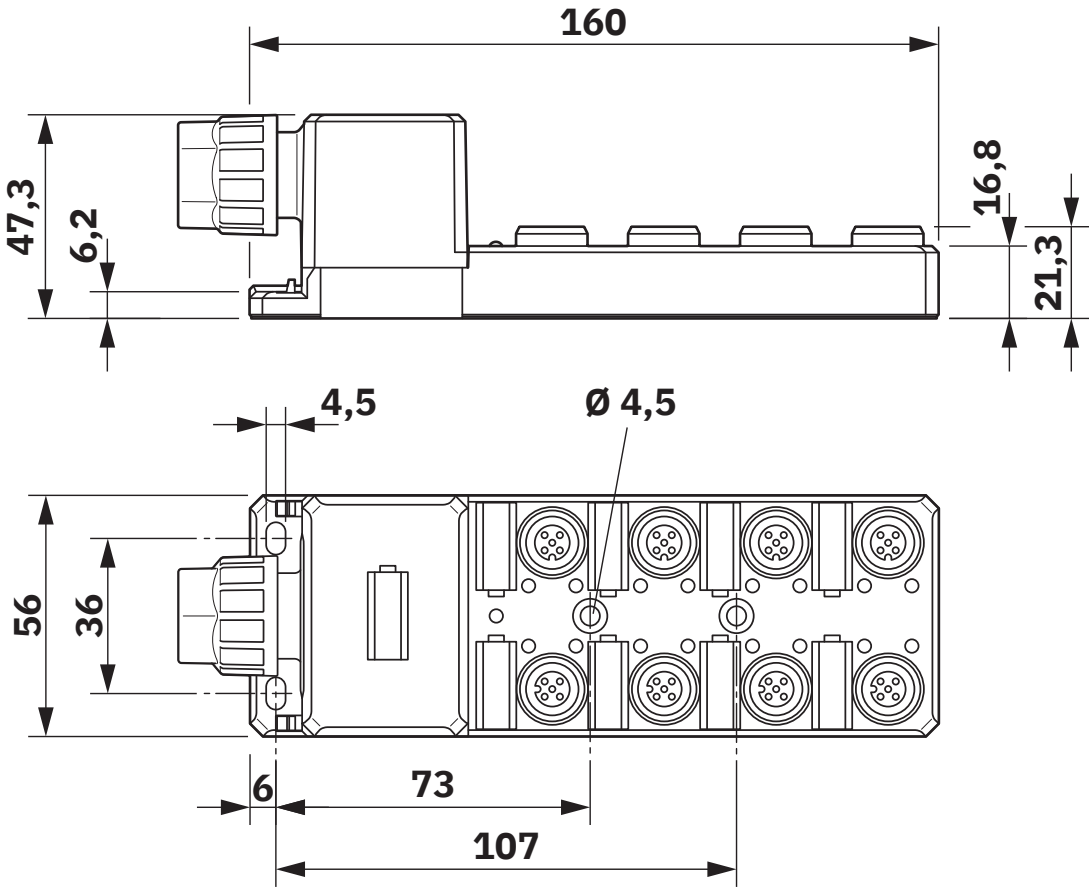
| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

## Standards and regulations

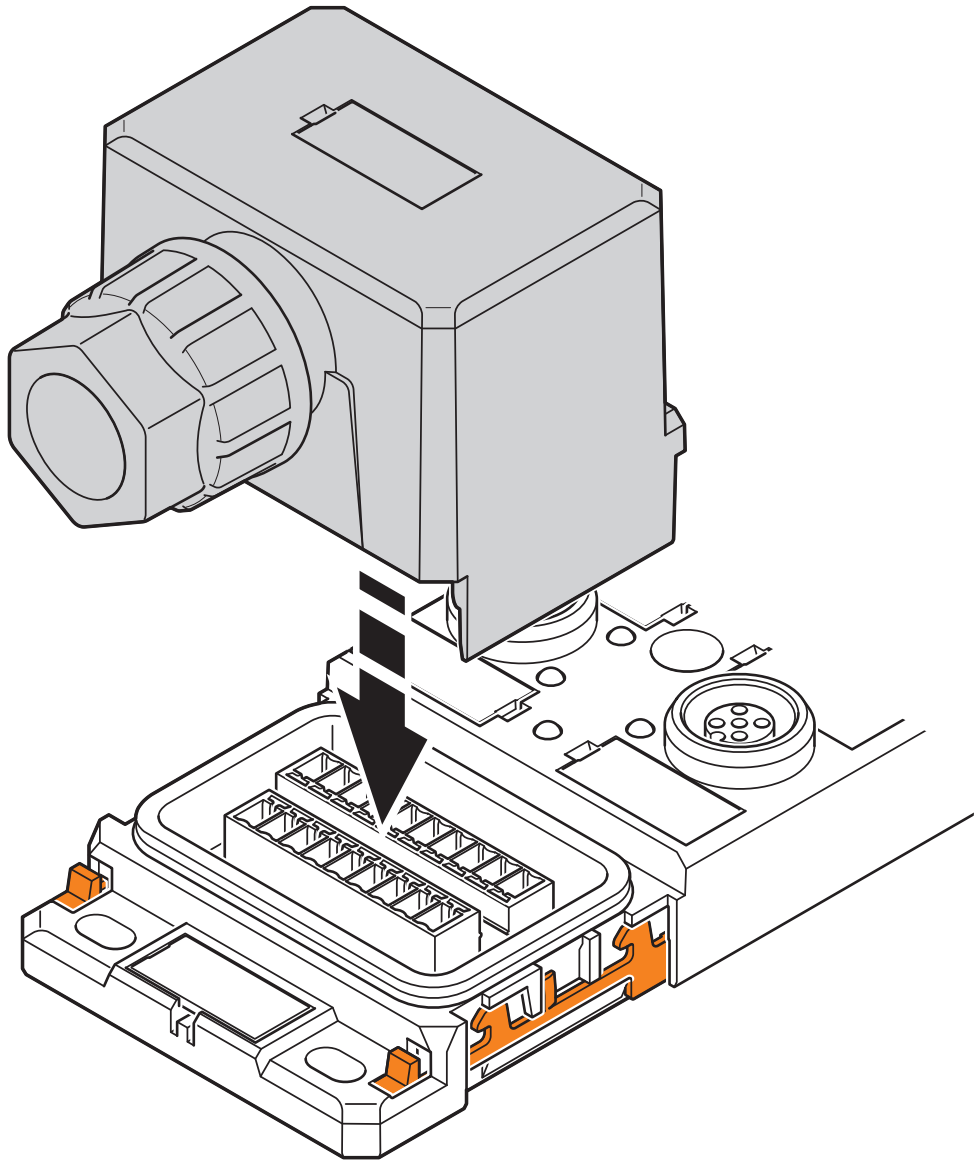
| | |
|---|---|
| Standard designation | M12-Push-Pull |
| Standards/specifications | IEC 61076-2-010 |

## Drawings

Dimensional drawing

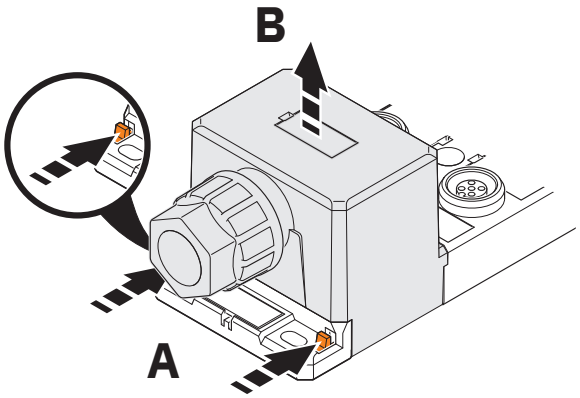


## Schematic diagram



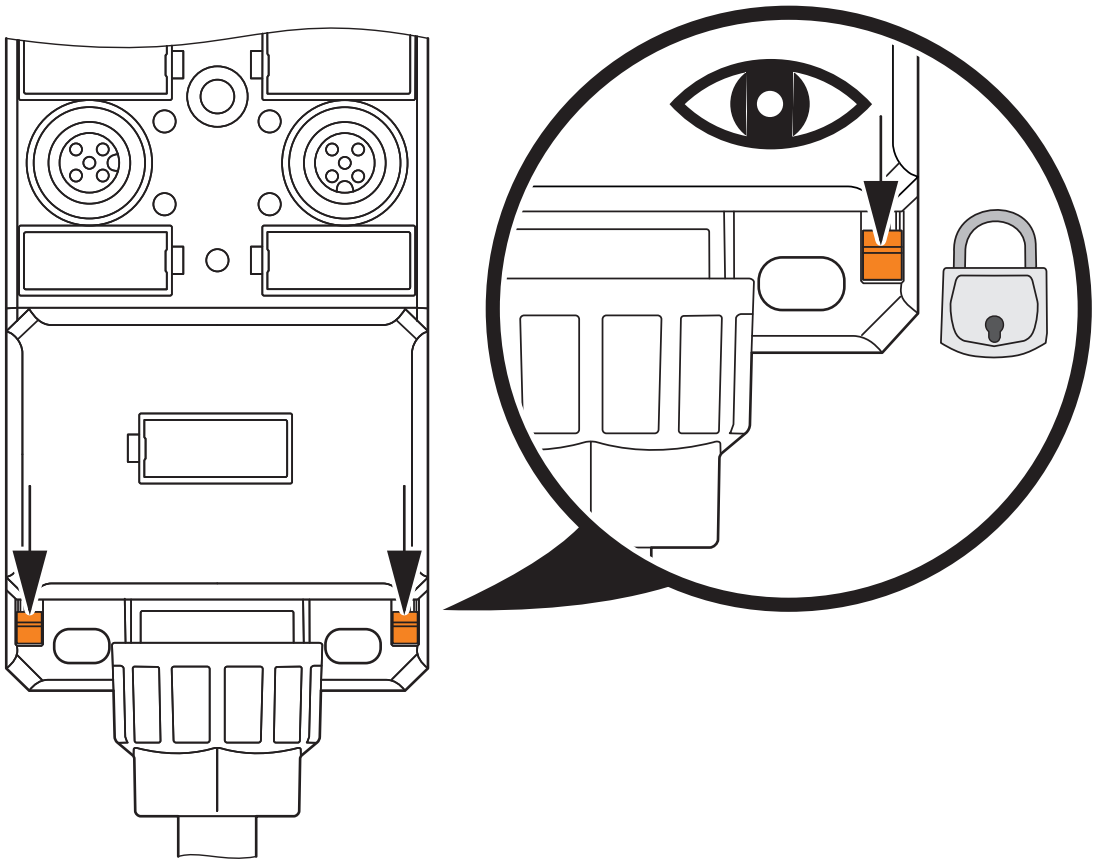
Schematic diagram of hood mounting

Schematic diagram



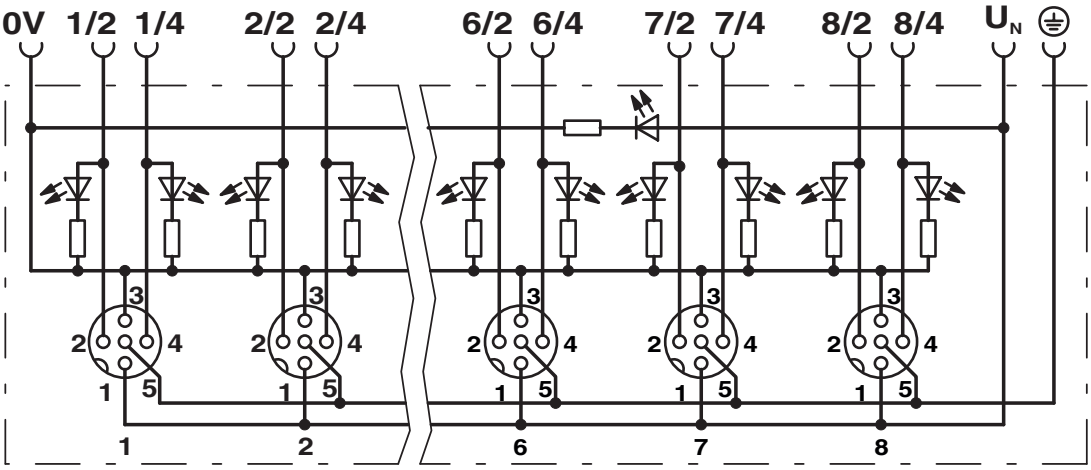

Schematic diagram of hood removal

Schematic diagram



Schematic diagram of locking and release mechanism for hood

Circuit diagram



## Classifications

### ECLASS

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

### ETIM

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

## 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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PHOENIX CONTACT Ltd
8240 Parkhill Drive
Milton, Ontario L9T 5V7
1-800-890-2820
cdinfo@phoenixcontact.ca