

SACB-4/ 8-L-PT QO - Distributor box



1175448

<https://www.phoenixcontact.com/us/products/1175448>

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Distributor box, connection method: QUICKON, 0.14 mm² ... 0.5 mm², number of slots: 4, number of positions: 5, slot assignment: Double, status display: yes, PNP; master cable connection: Push-in connection 180°, shielding: no, When connecting 5 conductors, max. 0.5 mm² can be connected

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
- Innovative and time-saving assembly with insulation displacement connection
- Flexible: distributor box with connector hood for on-site assembly

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1175448 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF41 |
| Product key | AF3DBC |
| GTIN | 4063151205362 |
| Weight per piece (including packing) | 251 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| 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". |
| Note on application | Cables with 5 conductors may have a maximum connection cross-section of 0.5 mm ² /20 AWG. |

Product properties

| | |
|---------------------|-----------------|
| Product type | Distributor box |
| Number of positions | 5 |
| Number of slots | 4 |
| 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 | 10 A |
| Max. current carrying capacity per path | 2 A |
| Current carrying capacity per slot | 4 A |

Connection data

Conductor connection

| | |
|--|--|
| Sensor/actuator connection system | QUICKON |
| Conductor cross-section Flexible signal line | 0.14 mm ² ... 0.5 mm ² |
| Conductor cross-section Flexible power supply | 0.14 mm ² ... 0.5 mm ² |
| Connection cross section AWG Flexible signal line | 26 ... 20 |
| Connection cross section AWG Flexible power supply | 26 ... 20 |
| Stripping length Signal line | 8 mm |
| Stripping length of the sheath | 50 mm (Master cable) |
| Tightening torque, cover screw | 0.35 Nm |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |
| Tightening torque, union nut | 4 Nm |

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Connection assignment

| | |
|--|-----------------------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 1 / 4 |
| | 1 / 2 (B) = 1 / 2 |
| | 2 / 4 (A) = 2 / 4 |
| | 2 / 2 (B) = 2 / 2 |
| | 3 / 4 (A) = 3 / 4 |
| | 3 / 2 (B) = 3 / 2 |
| | 4 / 4 (A) = 4 / 4 |
| | 4 / 2 (B) = 4 / 2 |
| | 1-4 / 1 (+ 24 V) = U _N |
| | 1-4 / 3 (0 V) = 0 V |
| | 1-4 / 5 (PE) = PE |

Signaling

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

Dimensions

| | |
|------------------------|---|
| Dimensional drawing | <p>The drawing shows two views of the distributor box. The top view (top) shows a width of 58 mm and a length of 131 mm. The front view (bottom) shows a height of 45 mm and a length of 107 mm. Other dimensions include 117 mm for the distance between the top terminals, 4.5 mm for the terminal spacing, 04.5 mm for the terminal diameter, 5.1 mm for the terminal offset, and 35 mm for the terminal height.</p> |
| Width | 58 mm |
| Height | 45 mm |
| Length | 131 mm |
| Wrench size, union nut | 16 mm |

Material specifications

| | |
|--|------------------------|
| Material Housing | PBT |
| Material Molding compound | PUR |
| Flammability rating according to UL 94 | V0 |
| Seal material O-ring | FKM |
| Seal material | FKM |
| Contact material | Steel/copper |
| Contact surface material | Sn |
| Contact carrier material | PA 6.6 |
| Material of contact, master cable side | CU alloy |
| Material of the contact carrier on the master cable side | PA 6.6 V0 |
| Material of contact surface, master cable side | Sn |
| Wire insulation material | PVC / PE / PP / rubber |

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Cable/line

| | |
|-------------------------|--------------------|
| External cable diameter | 7 mm ... 12 mm |
| Connection method | Push-in connection |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Degree of protection | IP65 |
| Ambient temperature (operation) | -30 °C ... 80 °C |
| | -5 °C ... 50 °C (During assembly) |

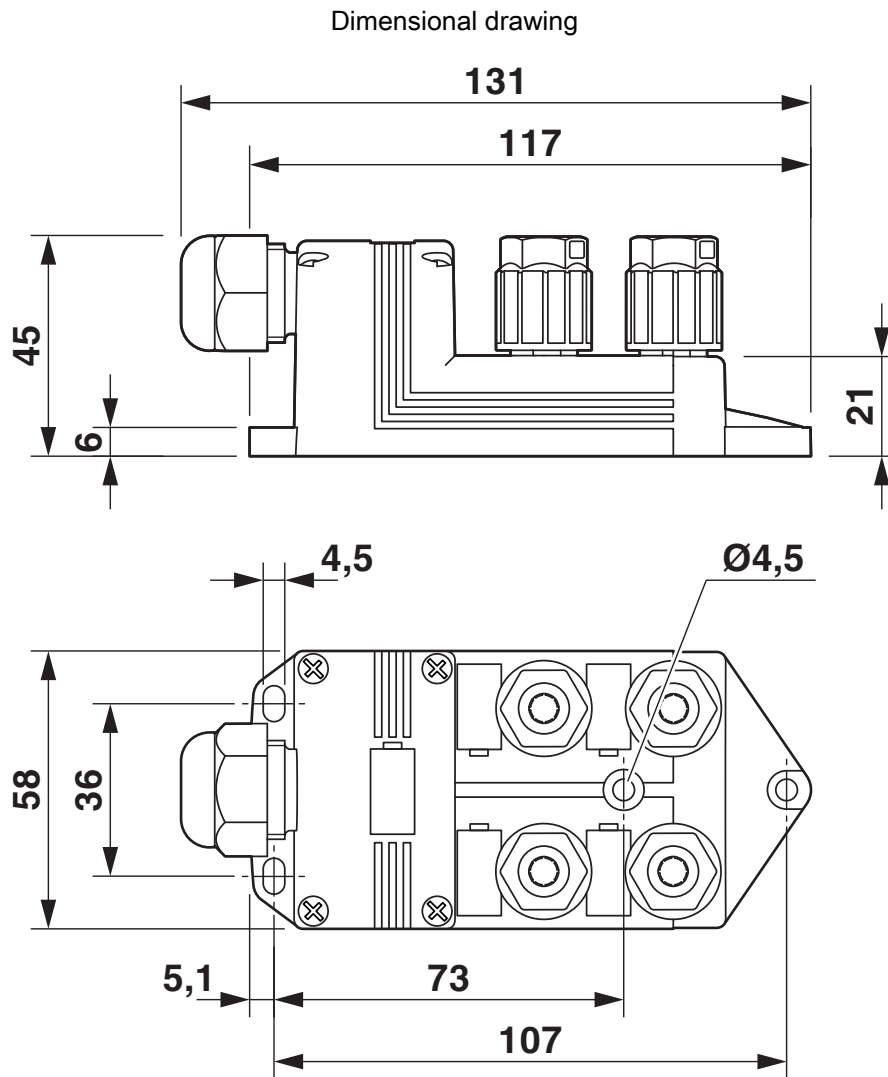
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Drawings



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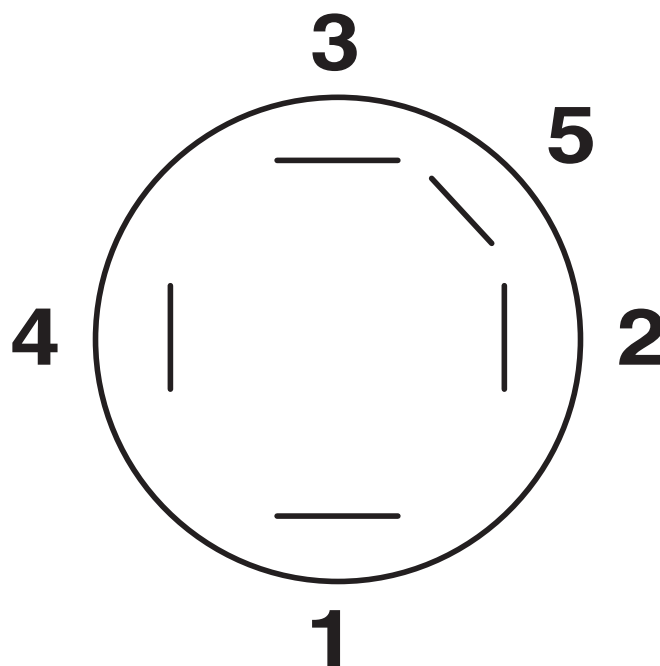
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Functional drawing



Schematic diagram



QUICKON connection, 5-pos.

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Circuit diagram



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Classifications

ECLASS

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

ETIM

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