

Sensor/actuator box - SACB-10/3-L- 5,0PUR-M8 - 1516072

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Sensor/actuator box, Application: Standard, Connection method: M8 socket Metal, Number of slots: 10, Number of positions: 3, Coding: A - standard, Slot assignment: single, Status indication: Yes, pnp; Master cable connection: Fixed connection 180°, PUR/PVC, Cable length: 5 m, Shielding: No

Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Flexible, distributed bundling of signals in one master cable
- Convenient: increased machine availability thanks to quick and easy diagnostics

Key commercial data

| | |
|-------------------------|---------------|
| package_quantity | 1 |
| GTIN | 4017918967055 |

Technical data

General

| | |
|----------------------------------------------------|-----------|
| Rated voltage | 24 V DC |
| Max. operating voltage U_{max} | 30 V DC |
| Current carrying capacity per I/O signal | 2 A |
| Current carrying capacity per slot | 2 A |
| Total rated current | 6 A |
| Number of positions | 3 |
| Number of slots | 10 |
| Flammability rating according to UL 94 | V0 |
| Sensor/actuator connection system | M8 socket |

Ambient conditions

| | |
|----------------------------------------|------------------|
| Degree of protection | IP65 |
| Degree of protection | IP67 |
| Ambient temperature (operation) | -30 °C ... 80 °C |

Local diagnostics function

| | |
|--------------------------|-------------------------------|
| Local diagnostics | Supply voltage Green LED |
| Local diagnostics | Status display I/O Yellow LED |

Master cable connection data

| | |
|--------------------------|------------------|
| Connection method | Fixed connection |
| Length of cable | 5 m |

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Technical data

Master cable connection data

| | |
|-----------------------------------------------------|--------|
| Tightening torque slot sensor/actuator cable | 0.2 Nm |
|-----------------------------------------------------|--------|

Insulation material

| | |
|--------------------------------------------|---------------|
| Housing material | PBT |
| Material of the moulding mass | PUR |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA |
| Material of threaded sleeve | Cu alloy |
| Material of threaded sleeve surface | Nickel-plated |
| O-ring material | NBR |

Pin assignment

| | |
|-------------------------------------------------|-----------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH |
| Slot/position = Wire color or connection | 2 / 4 (A) = GN |
| Slot/position = Wire color or connection | 3 / 4 (A) = YE |
| Slot/position = Wire color or connection | 4 / 4 (A) = GY |
| Slot/position = Wire color or connection | 5 / 4 (A) = PK |
| Slot/position = Wire color or connection | 6 / 4 (A) = RD |
| Slot/position = Wire color or connection | 7 / 4 (A) = BK |
| Slot/position = Wire color or connection | 8 / 4 (A) = VT |
| Slot/position = Wire color or connection | 9 / 4 (A) = WH/PK |
| Slot/position = Wire color or connection | 10 / 4 (A) = PK/BN |
| Slot/position = Wire color or connection | 1-10 / 1 (+24 V) = BN |
| Slot/position = Wire color or connection | 1-10 / 3 (0 V) = BU |

Standards and Regulations

| | |
|-----------------------------------------------|-----------------|
| Standard designation | M8 connector |
| Standards/regulations | IEC 61076-2-104 |
| Connection in acc. with standard | CUL |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|--------------------------------------------|----------------------------------------|
| Cable type | PUR/PVC black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | LiYY11Y-HF |
| UL AWM style | 20549 |
| Conductor cross section | 10x 0.34 mm ² (Signal line) |
| Conductor cross section | 2x 0.75 mm ² (power line) |
| AWG signal line | 22 |
| AWG power supply | 18 |
| Conductor structure signal line | 19x 0.15 mm |
| Conductor structure, voltage supply | 42x 0.15 mm |
| Core diameter including insulation | 1.3 mm ±0.1 mm (Signal line) |

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Technical data

Cable

| | |
|-----------------------------------------------|------------------------------------------------------------|
| Core diameter including insulation | 1.8 mm ±0.1 mm (power line) |
| Overall twist | Wires twisted in layers |
| External sheath, color | black RAL 9005 |
| Inner sheath thickness | ≥ 0.15 mm |
| Outer sheath thickness | ≥ 0.38 mm |
| External cable diameter D | 8.6 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 7.5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Number of bending cycles | 1500000 |
| Bending radius | 86 mm |
| Traversing path | 2 m |
| Traversing rate | 2 m/s |
| Cable weight | 111.1 kg/km |
| Outer sheath, material | PUR |
| Material, inner sheath | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 2000 V |
| Special properties | Silicone-free |
| Flame resistance | DIN EN 50265 |
| Resistance to oil | As per VDE 0472 Part 803 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) |
| Ambient temperature (operation) | -5 °C ... 80 °C (cable, flexible installation) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27279219 |
| eCl@ss 9.0 | 27440108 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000200 |
| ETIM 3.0 | EC001856 |
| ETIM 4.0 | EC002585 |

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Classifications

ETIM

| | |
|-----------------|----------|
| ETIM 5.0 | EC002585 |
|-----------------|----------|


UNSPSC


| | |
|----------------------|----------|
| UNSPSC 6.01 | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11 | 31261501 |
| UNSPSC 12.01 | 31261501 |
| UNSPSC 13.2 | 31261501 |

Approvals


UL Recognized / cUL Recognized / EAC / cULus Recognized /

Approval details

| | |
|------------------------------------------------------------------------------------------------------------|------|
| UL Recognized s  | |
| Nominal voltage UN | 24 V |
| Nominal current IN | |
| mm ² /AWG/kcmil | |

| | |
|-------------------------------------------------------------------------------------------------------------|------|
| cUL Recognized s  | |
| Nominal voltage UN | 24 V |
| Nominal current IN | |
| mm ² /AWG/kcmil | |

| |
|--------------|
| EAC s |
|--------------|

| |
|---------------------------------------------------------------------------------------------------------------|
| cULus Recognized s  |
|---------------------------------------------------------------------------------------------------------------|

Accessories

Terminal marking

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Accessories

ZBF10:UNBEDRUCKT - 0809997



Labeled terminal marker

ZBF10 CUS - 0825031



Protective cap

PROT-M8 - 1682540



Torque tool

TSD 02 SAC - 1208487



Screwdriver tools

SAC BIT M8-D10 - 1208461



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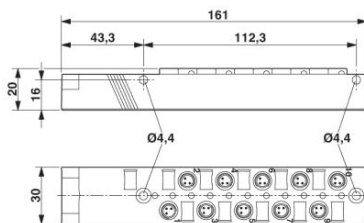
Accessories

SACC BIT M8-D12 - 1208474

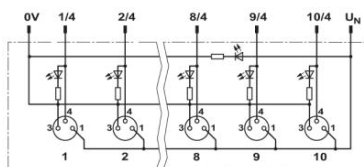


Drawings

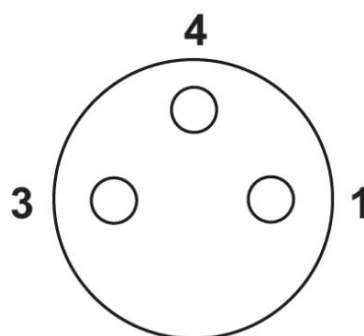
Dimensional drawing



Circuit diagram



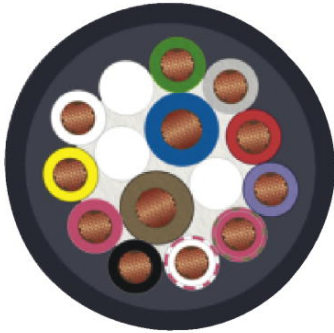
Schematic diagram



M8 slot, socket, 3-pos.

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Cable cross section



PUR/PVC black [PUR]

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