

Sensor/actuator box - SACB-8/ 8-C SCO - 1516881

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Sensor/actuator box, application: Standard, connection method: M12-SPEEDCON-socket Metal, number of slots: 8, number of positions: 4, coding: A - standard, slot assignment: single, status display: No, Universal; master cable connection: Pluggable screw connection 180°, 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
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 967611 |
| GTIN | 4017918967611 |

Technical data

General

| | |
|--|--|
| Rated voltage | 120 V |
| Max. operating voltage U_{max} | 135 V |
| Current carrying capacity per I/O signal | 2 A |
| Current carrying capacity per slot | 4 A |
| Total rated current | 10 A |
| | 2x 8 A (For electrical isolation) |
| Number of positions | 4 |
| Number of slots | 8 |
| Flammability rating according to UL 94 | V0 |
| Sensor/actuator connection system | M12-SPEEDCON-socket |
| Note | For details about the PCB connectors used, refer to the technical data for MC 1,5/10-STF-3,5 (1847204) |

Sensor/actuator box - SACB-8/ 8-C SCO - 1516881

Technical data

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP65 |
| | IP67 |
| | IP69K |
| Ambient temperature (operation) | -30 °C ... 80 °C |

Master cable data/connection data

| | |
|--|----------------------------|
| Connection method | Pluggable screw connection |
| Conductor cross section min. (signal) | 0.14 mm ² |
| Conductor cross section max. (signal) | 1.5 mm ² |
| Conductor cross section AWG min. (signal) | 26 |
| Conductor cross section AWG max. (signal) | 16 |
| Stripping length (signal) | 7 mm |
| Conductor cross section min. (energy) | 0.14 mm ² |
| Conductor cross section max. (energy) | 1.5 mm ² |
| Conductor cross section AWG min. (energy) | 26 |
| Conductor cross section AWG max. (energy) | 16 |
| External cable diameter min. | 7 mm |
| External cable diameter max. | 12 mm |
| Stripping length | 50 mm (Master cable) |
| Tightening torque, cover screw | 0.35 Nm |
| Tightening torque, union nut | 2.5 Nm |
| Tightening torque slot sensor/actuator cable | 0.4 Nm |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |

Insulation material

| | |
|--|---------------|
| Housing material | PBT |
| Material of the moulding mass | PUR |
| Contact material | Cu alloy |
| Contact surface material | gold-plated |
| Contact carrier material | PA |
| Material of contact, master cable side | CU alloy |
| Material of contact surface, master cable side | Gold-plated |
| Material of the contact carrier on the master cable side | PA 6.6 V0 |
| Material of threaded sleeve | Zinc die-cast |
| Material of threaded sleeve surface | Nickel-plated |
| O-ring material | NBR |

Pin assignment

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

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Technical data

Pin assignment

| | |
|--|------------------------------------|
| | 5 / 4 (A) = 5 / 4 |
| | 6 / 4 (A) = 6 / 4 |
| | 7 / 4 (A) = 7 / 4 |
| | 8 / 4 (A) = 8 / 4 |
| | 1-8 / 1 (+ 120 V) = U _N |
| | 1-8 / 3 (0 V) = 0 V |
| | 1-8 / 5 (PE) = PE |

Standards and Regulations

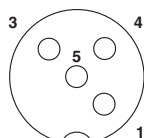
| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Connection in acc. with standard | CUL |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

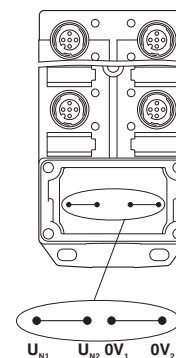
Drawings

Schematic diagram



M12 slot, socket, 4-pos.

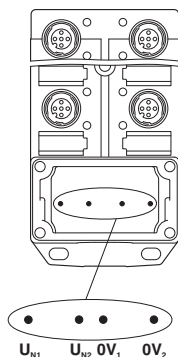
Schematic diagram



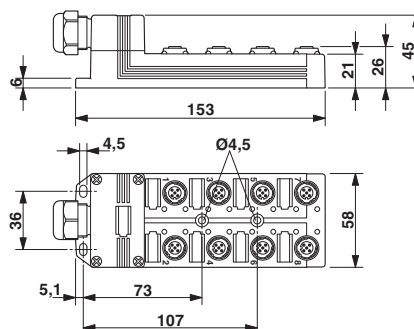
Potential U_{N1} and U_{N2} bridged. Potential assignment: U_{N1} = U_{N2} = slots 1,2,3,4,5,6,7,8.

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Schematic diagram

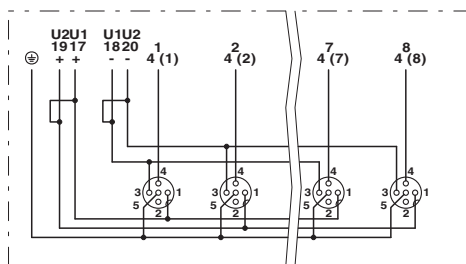


Dimensional drawing



Electrically isolated. Potential assignment: U_{N1} = slots 1,3,5,7 and U_{N2} = slots 2,4,6,8.

Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals


Approval details

| | | | |
|--------------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 118976 |
| Nominal voltage UN | | 120 V | |


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Approvals

| | |
|--------------------|-----|
| Nominal current IN | 3 A |
|--------------------|-----|

| | | | |
|--------------------|---|---|---------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 118976 |
| Nominal voltage UN | 120 V | | |
| Nominal current IN | 3 A | | |

| | | |
|-----|---|--------------------------|
| EAC |  | RU C- DE.AI30.B.01102 |
|-----|---|--------------------------|

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

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