

Sensor/actuator box - SACB-6/ 6-L-C NPN SCO - 1537080

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Sensor/actuator box, Connection method: M12-SPEEDCON-socket Metal, Number of slots: 6, Number of positions: 4, Slot assignment: Single, Status indication: Yes, npn; Master cable connection: Pluggable screw connection 180°, Shielding: No

Product Features

- ✓ 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
- ✓ 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 PCE
Minimum order quantity	25 PCE
Custom tariff number	85366990
Country of origin	Germany

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	4 A
Total rated current	10 A
	2x 8 A (For electrical isolation)
Number of positions	4
Number of slots	6
Inflammability class according to UL 94	V0

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Technical data

General

Sensor/actuator connection system	M12-SPEEDCON-socket
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Ambient conditions

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

Local diagnostics function

Local diagnostics	Supply voltage per module Green LED
	Status display I/O Yellow LED

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

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 66 V0

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Technical data

Insulation material

Material of threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	Nickel-plated
Material, O-ring	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
	5 / 4 (A) = 5 / 4
	6 / 4 (A) = 6 / 4
	1-6 / 1 (+ 24 V) = U _N
	1-6 / 3 (0 V) = 0 V
	1-6 / 5 (PE) = PE

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	27449001

ETIM

ETIM 2.0	EC000200
ETIM 3.0	EC001856
ETIM 4.0	EC002585
ETIM 5.0	EC002585

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

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Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

Approval details

GOST 

Accessories

Accessories

Cable by the meter

Master cable ring - SACB- 6X0,34/ 3X0,75-50,0 PUR - 1503331



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PVC, 9-pos., 6 x 0.34 mm² and 3 x 0.75 mm²

Connector hood without master cable

Connector hood - SACB-C-H180 8/16 SCO - 1516713



Connector hood with an integrated connector, for M12 sensor/actuator boxes with metal thread and pluggable screw connection, for 4, 6 or 8 slots

Device marking

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Accessories

Contactor marker – zack marker strip - SS-ZB 17,5 WH - 0804963



Contactor marker – zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm

Protective cap

Screw plug - PROT-MS SCO - 1553129



M12 screw plug with SPEEDCON quick locking for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors

Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

Philips screwdriver - SZK PZ1 VDE - 1206450



Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip

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Accessories

Torque tool

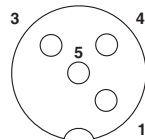
Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

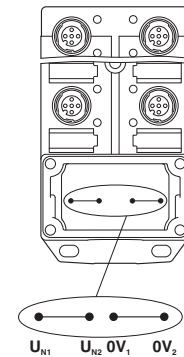
Drawings

Schematic diagram



M12 slot, socket, 4-pos.

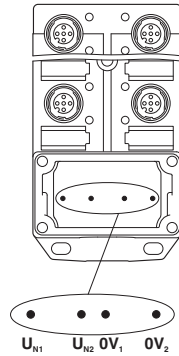
Schematic diagram



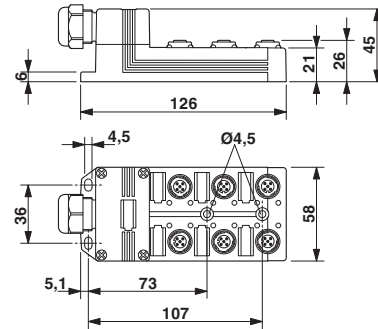
Potential U_{N1} and U_{N2} bridged. Potential assignment: $U_{N1} = U_{N2} =$ slots 1,2,3,4,5,6.

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Schematic diagram

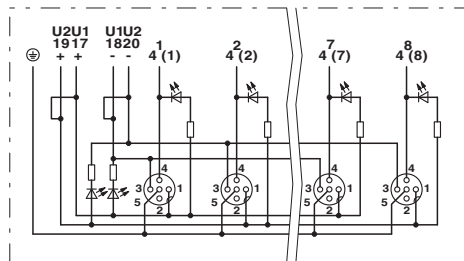


Dimensioned drawing



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

Circuit diagram



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