

Sensor/actuator box - SACB-8/16-C SCO - 1516894

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Sensor/actuator box, Connection method: M12-SPEEDCON-socket Metal, Number of slots: 8, Number of positions: 5, Slot assignment: Double, Status indication: No, Universal; 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
- ✓ Save space: distributor box with double occupancy for two sensors in one slot
- ✓ Save time, thanks to installation with SPEEDCON rapid interlock system
- ✓ Flexible: distributor box with connector hood for on-site assembly



Key commercial data

package_quantity	1
GTIN	4017918967628

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
Total rated current	2x 8 A (For electrical isolation)
Number of positions	5
Number of slots	8
Inflammability class according to UL 94	V0
Sensor/actuator connection system	M12-SPEEDCON-socket

Ambient conditions

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

Master cable data/connection data

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Technical data

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 screw plug	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
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
Slot/position = Wire color or connection	1 / 2 (B) = 1 / 2
Slot/position = Wire color or connection	2 / 4 (A) = 2 / 4
Slot/position = Wire color or connection	2 / 2 (B) = 2 / 2
Slot/position = Wire color or connection	3 / 4 (A) = 3 / 4
Slot/position = Wire color or connection	3 / 2 (B) = 3 / 2
Slot/position = Wire color or connection	4 / 4 (A) = 4 / 4
Slot/position = Wire color or connection	4 / 2 (B) = 4 / 2
Slot/position = Wire color or connection	5 / 4 (A) = 5 / 4
Slot/position = Wire color or connection	5 / 2 (B) = 5 / 2

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Technical data

Pin assignment

Slot/position = Wire color or connection	6 / 4 (A) = 6 / 4
Slot/position = Wire color or connection	6 / 2 (B) = 6 / 2
Slot/position = Wire color or connection	7 / 4 (A) = 7 / 4
Slot/position = Wire color or connection	7 / 2 (B) = 7 / 2
Slot/position = Wire color or connection	8 / 4 (A) = 8 / 4
Slot/position = Wire color or connection	8 / 2 (B) = 8 / 2
Slot/position = Wire color or connection	1-8 / 1 (+ 120 V) = U _N
Slot/position = Wire color or connection	1-8 / 3 (0 V) = 0 V
Slot/position = Wire color or connection	1-8 / 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

approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized /

Approval details

UL Recognized 
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approvals

Nominal voltage UN	120 V
Nominal current IN	3 A
mm ² /AWG/kcmil	

cUL Recognized 	
Nominal voltage UN	120 V
Nominal current IN	3 A
mm ² /AWG/kcmil	

GOST 	
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cULus Recognized  US	
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accessories

Connector hood without master cable

SACB-C-H180 8/16 SCO - 1516713



Protective cap

PROT-MS SCO - 1553129



Device marking

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accessories

SS-ZB 17,5 WH - 0804963



Torque tool

TSD 04 SAC - 1208429



Screwdriver tools

SAC BIT M12-D15 - 1208432



SACC BIT M12-D20 - 1208445



SZK PZ1 VDE - 1206450



Cable by the meter

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accessories

SACB-16X0,5/ 3X1,0-50,0 PUR - 1503373



SACB-16X0,5/ 3X1,0-200,0 PUR - 1559893



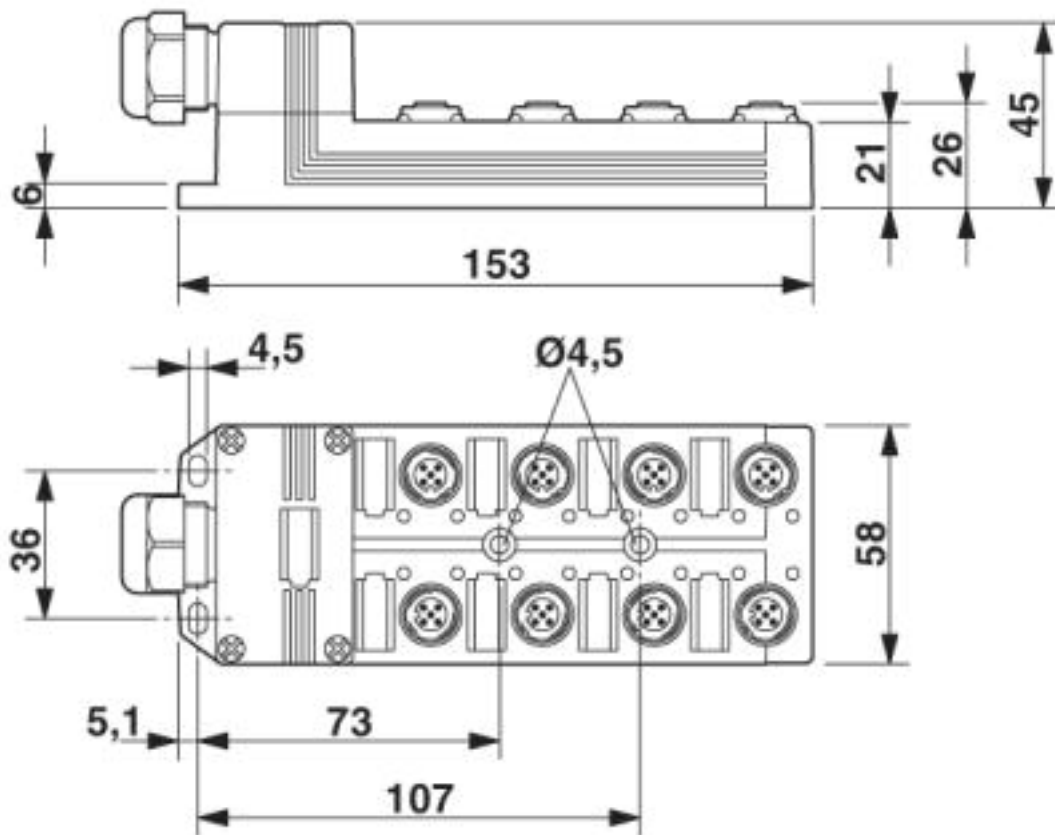
SACB-16X0,5/ 3X1,0-50,0 VPUR - 1430938



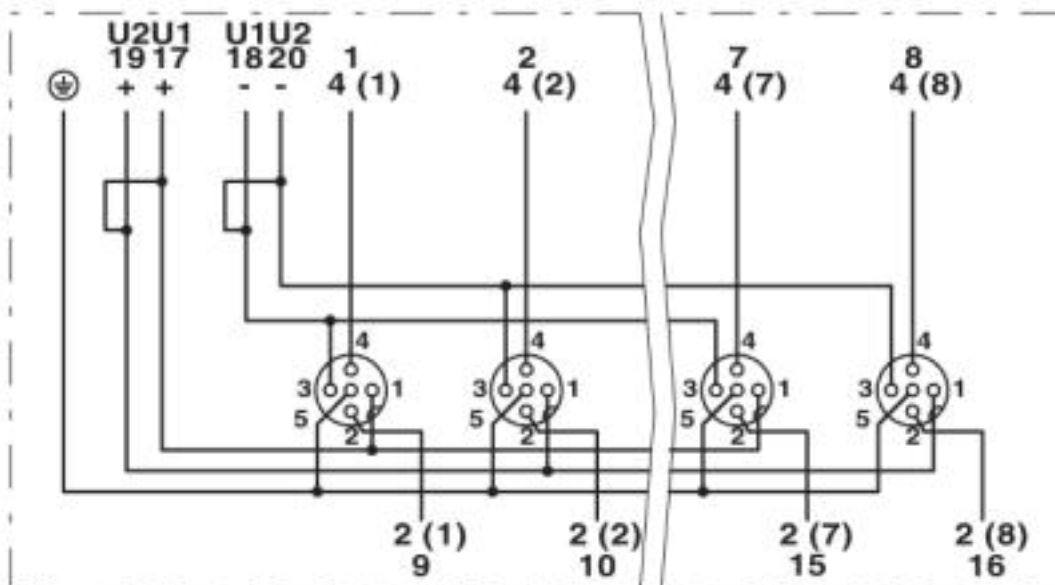
Drawings

Sensor/actuator box - SACB-8/16-C SCO - 1516894

Dimensioned drawing

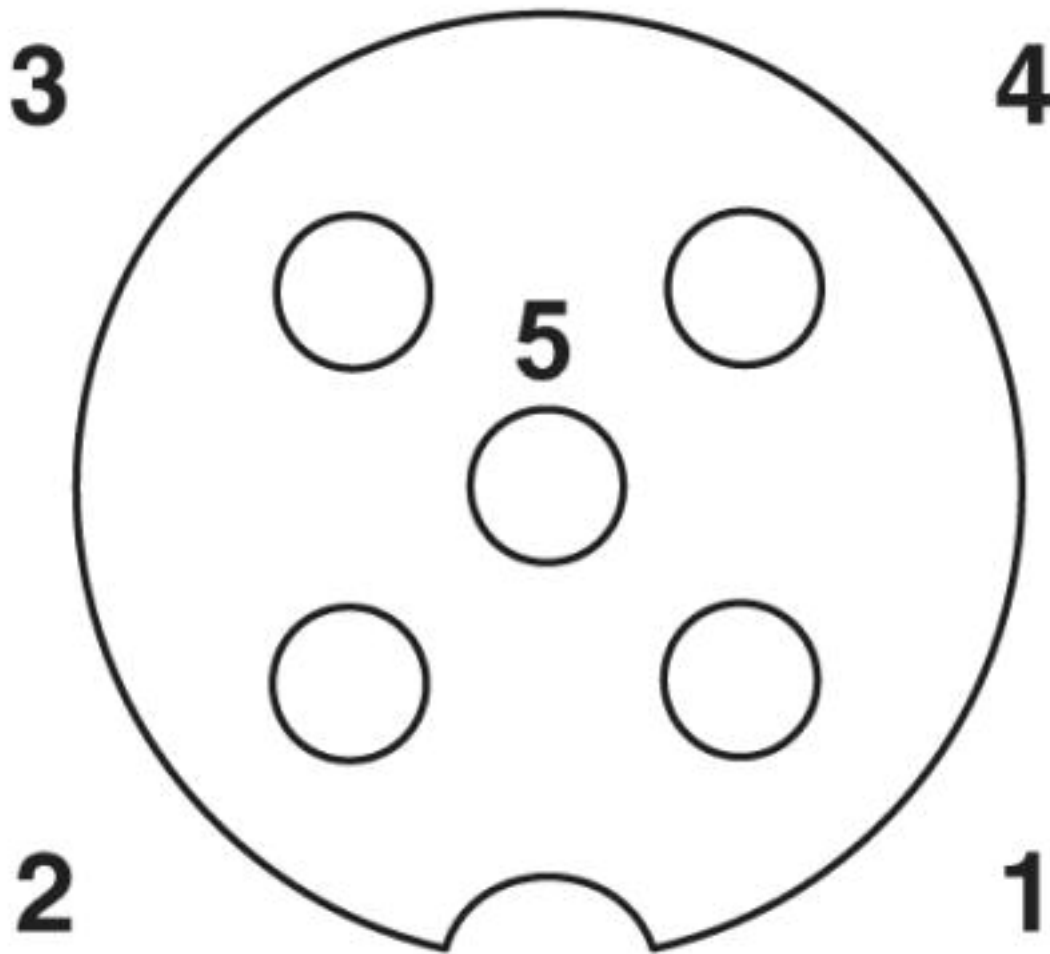


Circuit diagram



Sensor/actuator box - SACB-8/16-C SCO - 1516894

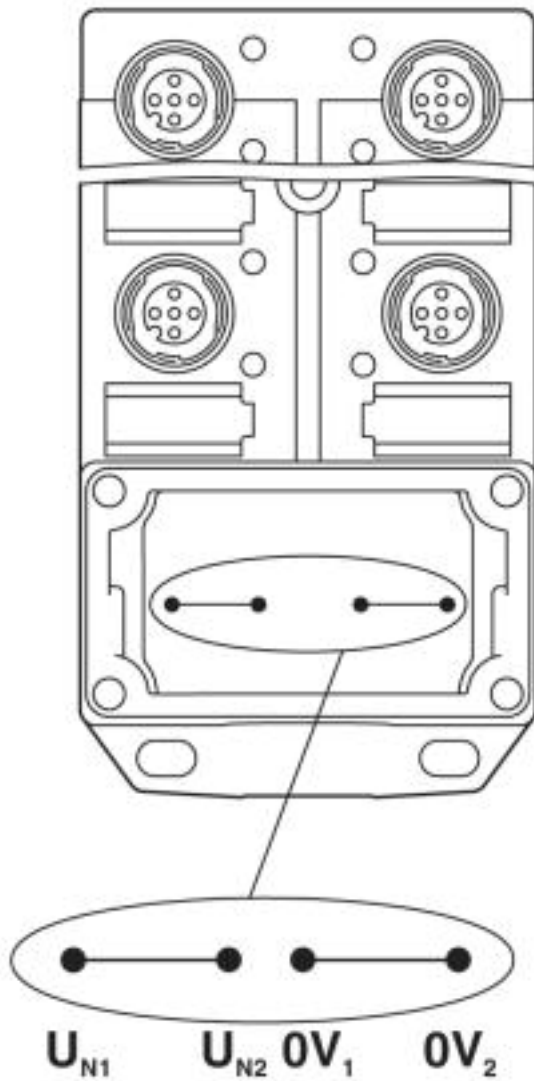
Schematic diagram



M12 slot, socket, 5-pos.

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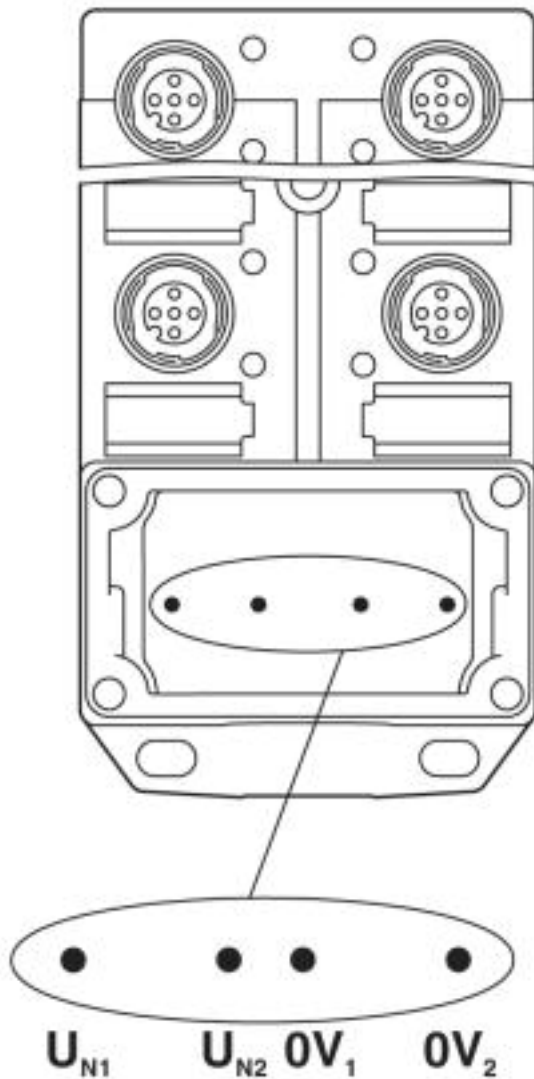
Schematic diagram



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



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

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