

Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

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Sensor/actuator box, Connection method: M12-SPEEDCON-socket Plastic, Number of slots: 8, Number of positions: 5, Slot assignment: Double, Status indication: Yes, pnp; Master cable connection: Spring-cage conn. 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 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	4046356553650

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	12 A
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
Ambient temperature (operation)	-25 °C ... 80 °C

Local diagnostics function

Local diagnostics	Supply voltage Green LED
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Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

Technical data

Local diagnostics function

Local diagnostics	Status display I/O Yellow LED
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Master cable data/connection data

Connection method	Spring-cage conn.
Conductor cross section min. (signal)	0.2 mm ²
Conductor cross section max. (signal)	0.5 mm ²
Conductor cross section AWG min. (signal)	24
Conductor cross section AWG max. (signal)	20
Stripping length (signal)	6 mm
Conductor cross section min. (energy)	0.2 mm ²
Conductor cross section max. (energy)	1.5 mm ²
Conductor cross section AWG min. (energy)	24
Conductor cross section AWG max. (energy)	16
Stripping length (power)	10 mm
External cable diameter min.	7 mm
External cable diameter max.	12 mm
Stripping length	50 mm (Master cable)
Tightening torque, cover screw	1 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 threaded sleeve	PBT
Material, O-ring	NBR
Sealing material	NBR (Connector hood)

Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
Slot/position = Wire color or connection	1 / 2 (B) = GY/PK
Slot/position = Wire color or connection	2 / 4 (A) = GN
Slot/position = Wire color or connection	2 / 2 (B) = RD/BU
Slot/position = Wire color or connection	3 / 4 (A) = YE
Slot/position = Wire color or connection	3 / 2 (B) = WH/GN
Slot/position = Wire color or connection	4 / 4 (A) = GY
Slot/position = Wire color or connection	4 / 2 (B) = BN/GN
Slot/position = Wire color or connection	5 / 4 (A) = PK
Slot/position = Wire color or connection	5 / 2 (B) = WH/YE

Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

Technical data

Pin assignment

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

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 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 	
Nominal voltage UN	24 V

Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

approvals

Nominal current I _N	
mm ² /AWG/kcmil	

cUL Recognized 	
Nominal voltage U _N	24 V
Nominal current I _N	
mm ² /AWG/kcmil	

GOST 
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cULus Recognized 
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accessories

Protective cap

PROT-MS SCO - 1553129



Device marking

SS-ZB 17,5 WH - 0804963



Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

accessories

SS-ZB 17,5 YE - 0804976



Labeled device marker

SS-ZB 17,5 WH CUS - 0824468



SS-ZB 17,5 YE CUS - 0824469



Torque tool

TSD 04 SAC - 1208429



TSD-M 1,2NM - 1212224



Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

accessories

TSD 25 SAC - 1212315



TSD-M 3NM - 1212225



Screwdriver tools

SACC BIT M12-D20 - 1208445



SZK PZ2 VDE - 1206463



SAC BIT HOOD-W 24 - 1212486



Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

accessories

TSD-M SAC-BIT ADAPTER - 1212600



SZS 0,4X2,0 - 1205202



Cable by the meter

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



Connector

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accessories

A 0,5 - 6 - 3200218



A 0,75-10 - 3200234



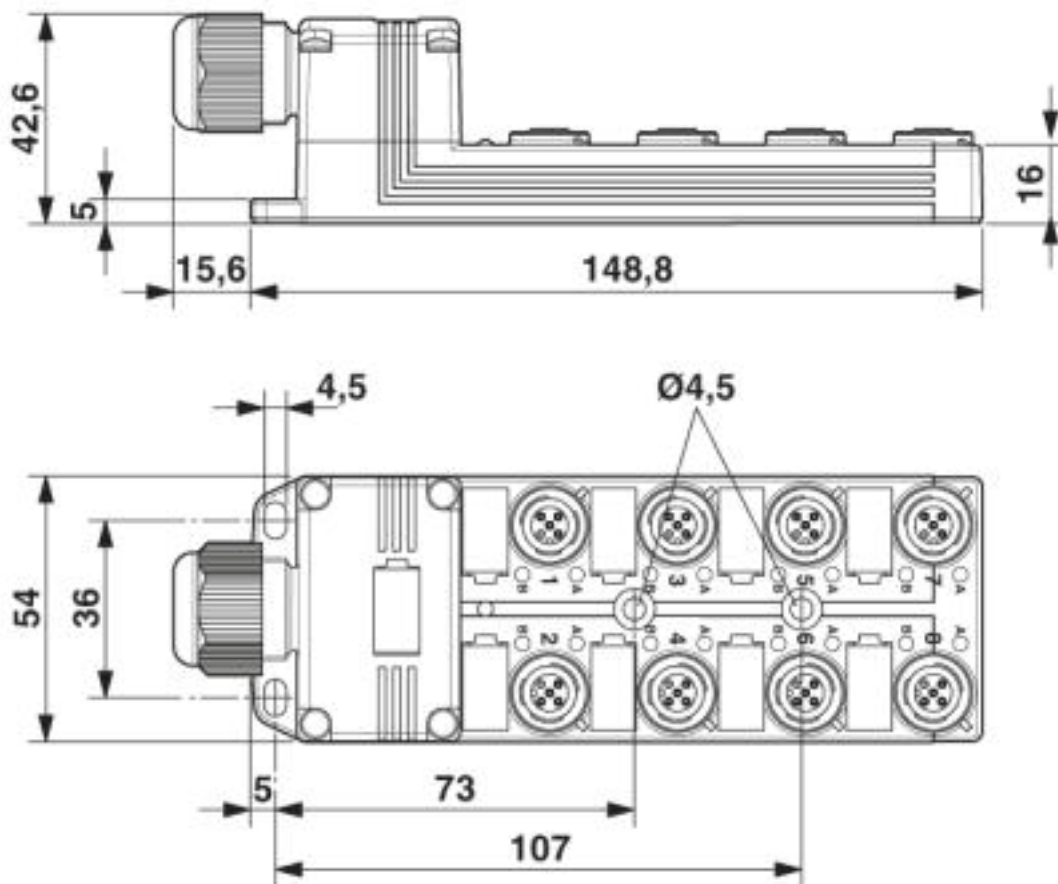
A 1 -10 - 3200250



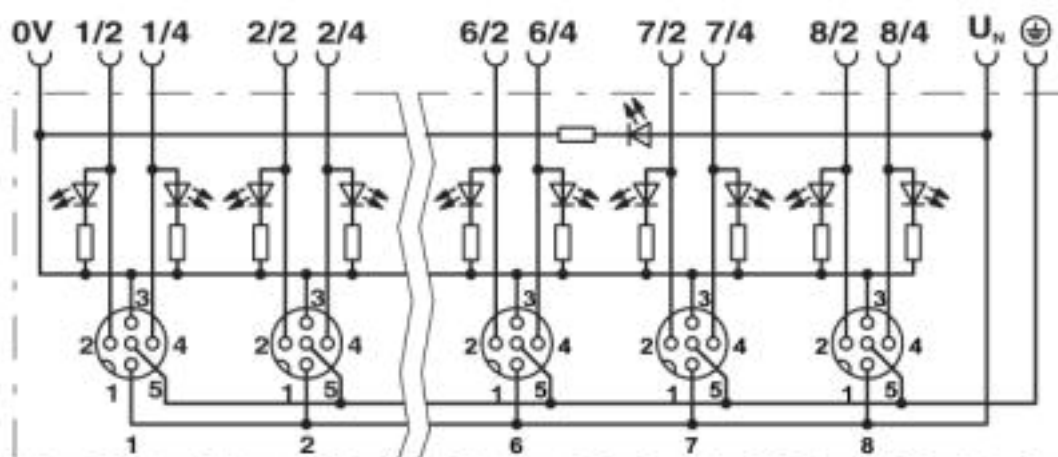
Drawings

Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

Dimensioned drawing

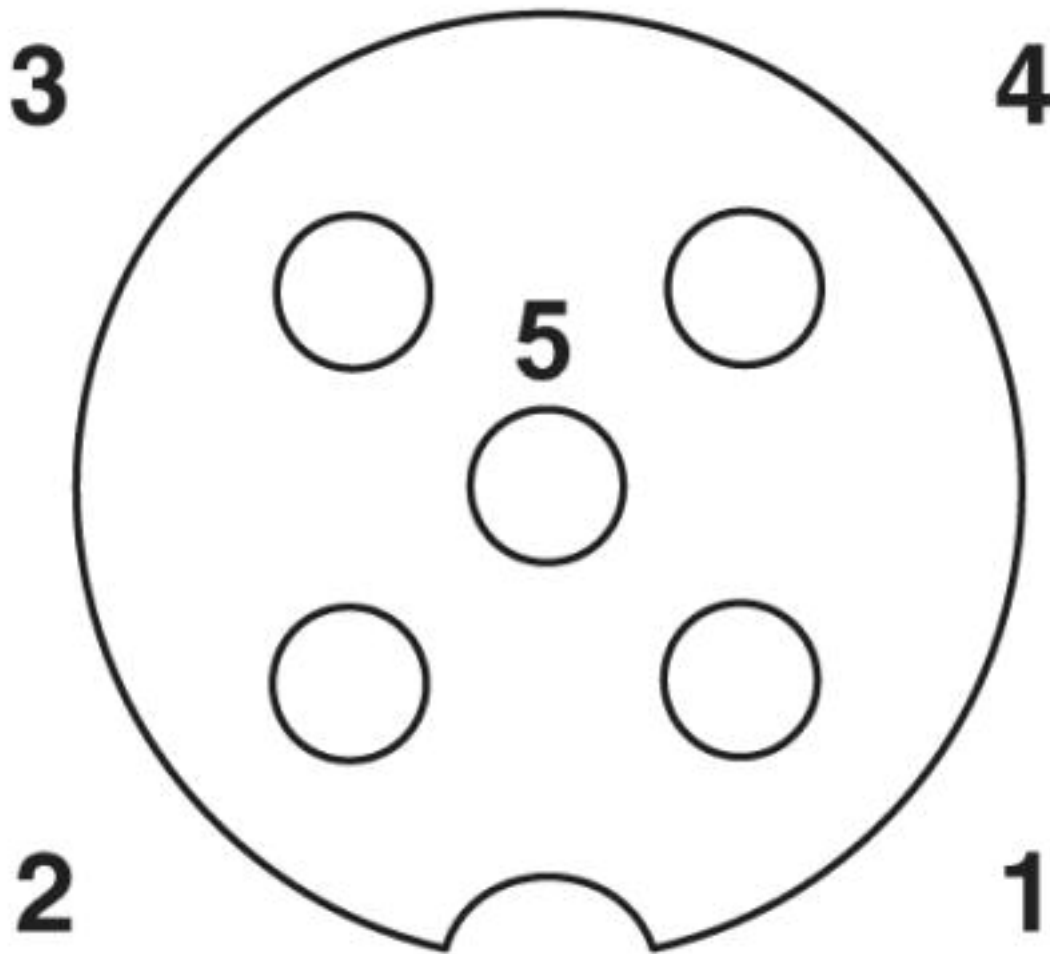


Circuit diagram



Sensor/actuator box - SACB-8/16-L-SC SCO P - 1453038

Schematic diagram



M12 slot, socket, 5-pos.

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