

## SACB-8/16-L-C SCO P


Order No.: 1452851

<http://eshop.phoenixcontact.net/phoenix/treeViewClick.do?UID=1452851>

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:  
Pluggable screw connection 180°, Shielding: No



### Commercial data

EAN	 4 046356 553711
Pack	1 pcs.
Customs tariff	85366990
Catalog page information	Page 180 (PC-2011)

### Product notes

WEEE/RoHS-compliant since:  
12/14/2009



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### Technical data

#### General data

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
Number of positions	5
Number of slots	8
Degree of protection	IP65/67
Inflammability class according to UL 94	V0
Ambient temperature (operation)	-25 °C ... 80 °C
Sensor/actuator connection system	M12-SPEEDCON-socket

#### Local diagnostics function

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

#### Master cable data

Connection method	Pluggable screw connection
Conductor cross section min. (signal)	0.14 mm <sup>2</sup>
Conductor cross section max. (signal)	1.5 mm <sup>2</sup>
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 <sup>2</sup>
Conductor cross section max. (energy)	1.5 mm <sup>2</sup>
Conductor cross section AWG min. (energy)	26
Conductor cross section AWG max. (energy)	16
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 contact, master cable side	CU alloy

Material of contact surface, master cable side	Sn
Material of the contact carrier on the master cable side	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
	1 / 2 (B) = GY/PK
	2 / 4 (A) = GN
	2 / 2 (B) = RD/BU
	3 / 4 (A) = YE
	3 / 2 (B) = WH/GN
	4 / 4 (A) = GY
	4 / 2 (B) = BN/GN
	5 / 4 (A) = PK
	5 / 2 (B) = WH/YE
	6 / 4 (A) = RD
	6 / 2 (B) = YE/BN
	7 / 4 (A) = BK
	7 / 2 (B) = WH/GY
	8 / 4 (A) = VT
	8 / 2 (B) = GY/BN
	1-4 / 1 (+ 24 V) = BN
	1-8 / 3 (0 V) = BU
	1-8 / 5 (PE) = GN/YE

**Certificates / Approvals**

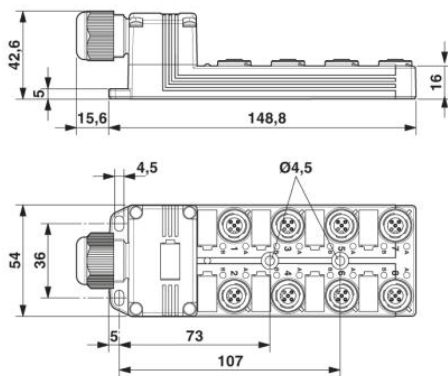
Certification GOST

<b>Accessories</b>		
Item	Designation	Description
<b>Cable/conductor</b>		
1559893	SACB-16X0,5/ 3X1,0-200,0 PUR	Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm <sup>2</sup> and 3 x 1.00 mm <sup>2</sup> , length: 200 m on drum
1503373	SACB-16X0,5/ 3X1,0-50,0 PUR	Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm <sup>2</sup> and 3 x 1.00 mm <sup>2</sup> , length: 50 m
1430938	SACB-16X0,5/ 3X1,0-50,0 VPUR	Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm <sup>2</sup> and 3 x 1.00 mm <sup>2</sup> , length: 50 m
<b>General</b>		
0824468	SS-ZB 17,5 WH CUS	Contact marker – zack marker strip, Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm
0804976	SS-ZB 17,5 YE	Contact marker – zack marker strip, Strip, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm
0824469	SS-ZB 17,5 YE CUS	Contact marker – zack marker strip, Strip, yellow, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, Lettering field: 17.5 x 8 mm
<b>Marking</b>		
0804963	SS-ZB 17,5 WH	Contact 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
<b>Protection and sealing elements</b>		
1553129	PROT-MS SCO	M12 screw plug with SPEEDCON quick locking for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors
<b>Tools</b>		
1212486	SAC BIT HOOD-W 24	Nut for assembling pressure nuts with 24 mm wrench size, for 4 mm hexagonal drive
1208445	SACC BIT M12-D20	Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive
1206463	SZK PZ2 VDE	Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip
1208429	TSD 04 SAC	Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

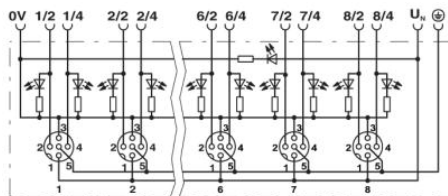
1212315	TSD 25 SAC	Torque screwdriver, with preset torque of 2.5 Nm and 4 mm hexagonal drive for the pressure nut of the connector hood
1212224	TSD-M 1,2NM	Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm
1212225	TSD-M 3NM	Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm
1212600	TSD-M SAC-BIT ADAPTER	Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

**Diagrams/Drawings**

Dimensioned drawing

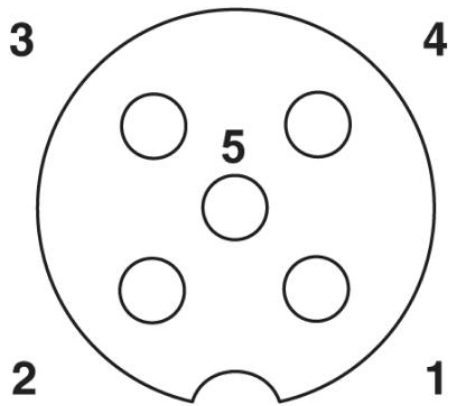


Circuit diagram



Schematic diagram

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M12 slot, socket, 5-pos.

Connection data incl. use groups

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