

# SACB-4/ 8-C SCO SELECT - Sensor/actuator box



1437258

<https://www.phoenixcontact.com/us/products/1437258>

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Sensor/actuator box, connection method: M12-SPEEDCON-socket Metal, number of slots: 4, number of positions: 5, coding: A, slot assignment: parallel, 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
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

Item number	1437258
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF42
Product key	BF3CCD
GTIN	4046356455602
Weight per piece (including packing)	255 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

General	<b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
General	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

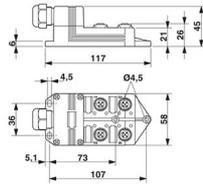
### Product properties

Product type	Distributor boxes with M8 to M12 slots
Number of positions	5
Number of slots	4
Coding	A
LED	No

### Material specifications

Material	Die-cast zinc
	PBT
	PUR
Flammability rating according to UL 94	V0
Seal material O-ring	NBR
Contact material	Cu alloy
Contact surface material	gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	PA 6.6 V0
Material of contact surface, master cable side	gold-plated

### Dimensions

Dimensional drawing	
Width	58 mm
Height	45 mm
Length	117 mm

### Connection data

Conductor connection	
Connection method	Pluggable screw connection

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Stripping length	7 mm
Conductor cross section Flexible signal line	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section Flexible power supply	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG Flexible signal line	26 ... 16
Connection cross section AWG Flexible power supply	26 ... 16
Tightening torque, cover screw	0.35 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm

## Pin assignment

Slot/position = Wire color or connection	1 / 1 = 1 / 1
	1 / 2 = 1 / 2
	1 / 3 = 1 / 3
	1 / 4 = 1 / 4
	1 / 5 = 1 / 5
	2 / 1 = 2 / 1
	2 / 2 = 2 / 2
	2 / 3 = 2 / 3
	2 / 4 = 2 / 4
	2 / 5 = 2 / 5
	3 / 1 = 3 / 1
	3 / 2 = 3 / 2
	3 / 3 = 3 / 3
	3 / 4 = 3 / 4
	3 / 5 = 3 / 5
	4 / 1 = 4 / 1
4 / 2 = 4 / 2	
4 / 3 = 4 / 3	
4 / 4 = 4 / 4	

## Signaling

Status display present	No
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## Electrical properties

Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Rated current, total	10 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

## Cable/line

Sensor/actuator connection system	M12-SPEEDCON-socket
Connection method	Pluggable screw connection
External cable diameter	7 mm ... 12 mm
Metric conductor cross section (Signal)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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Cross section AWG (Signal)	26 ... 16
Stripping length (signal)	7 mm
Metric conductor cross section (Power)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG (Power)	26 ... 16
Tightening torque, cover screw	0.35 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque, union nut	2.5 Nm

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP69K
Ambient temperature (operation)	-30 °C ... 80 °C
Ambient temperature (storage/transport)	-30 °C ... 90 °C

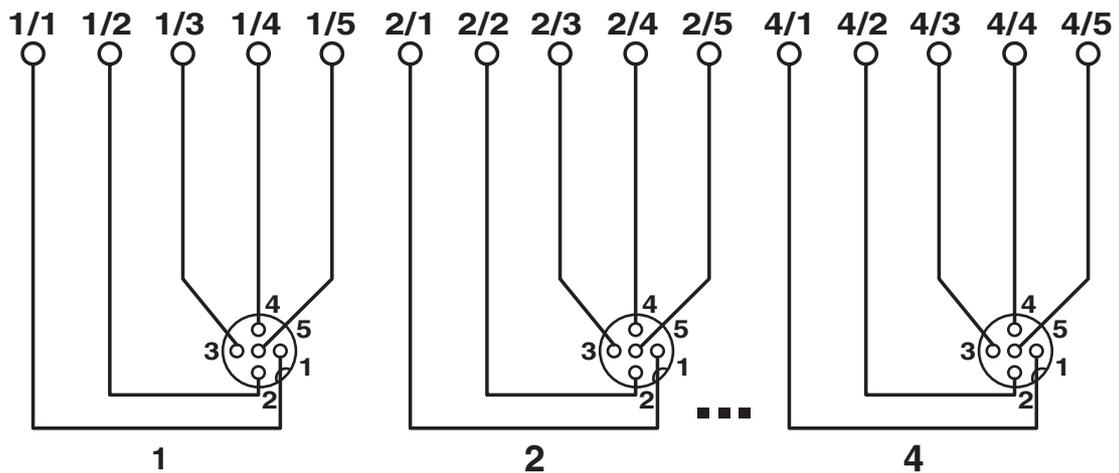
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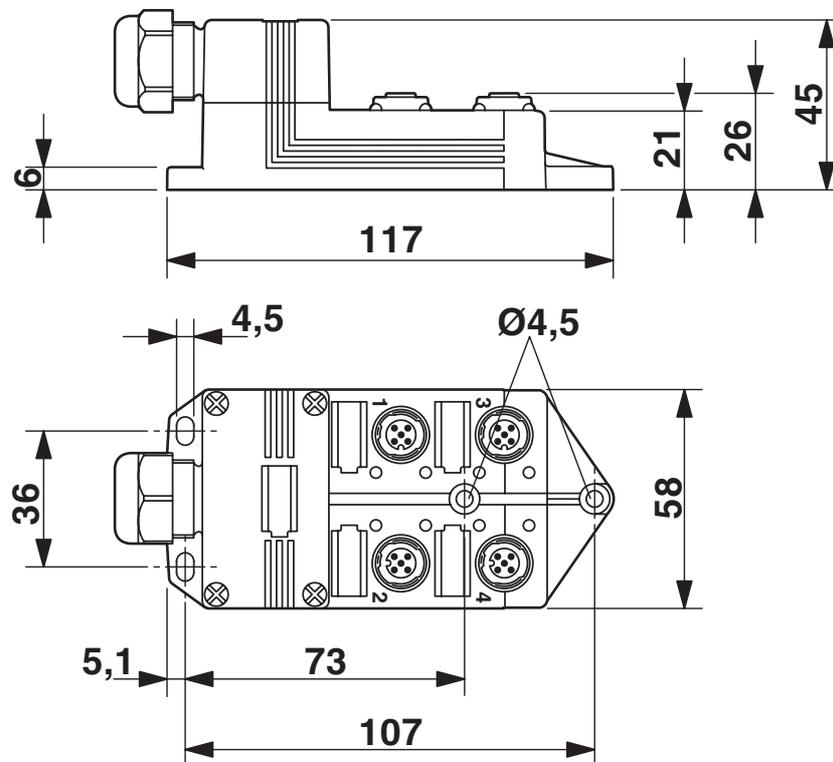
<https://www.phoenixcontact.com/us/products/1437258>

## Drawings

Circuit diagram



Dimensional drawing



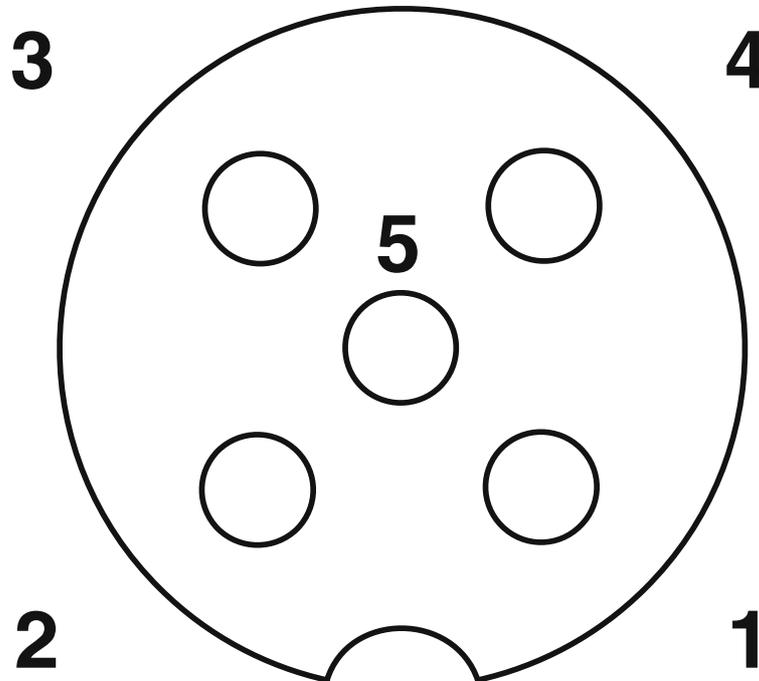
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Schematic diagram



Pin assignment of M12 socket, 5-pos.

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1437258>

 <b>cUL Recognized</b> Approval ID: File E 118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	48 V	4 A	-	-

 <b>UL Recognized</b> Approval ID: File E 118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	48 V	4 A	-	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00511	
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<b>cULus Recognized</b>	
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## Classifications

### ECLASS

ECLASS-11.0	27440111
ECLASS-12.0	27440111
ECLASS-13.0	27440111

### ETIM

ETIM 8.0	EC003558
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### UNSPSC

UNSPSC 21.0	31251500
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

### PROT-MS SCO - Screw plug

1553129

<https://www.phoenixcontact.com/us/products/1553129>



M12 screw plug with fast-locking system for unoccupied M12 female connectors of sensor/actuator cables, boxes, and flush-type connectors

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### SS-ZB 17,5 WH - Contactor marker - zack marker strip

0804963

<https://www.phoenixcontact.com/us/products/0804963>



Contactor marker - zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snap into flat marker groove, lettering field size: 17.5 x 9 mm, Number of individual labels: 5

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## SS-ZB WH CUS - Contactor marker - zack marker strip

0824470

<https://www.phoenixcontact.com/us/products/0824470>



Contactor marker - zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 20 mm, lettering field size: 20 x 8 mm

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## SS-ZB 17,5 YE - Contactor marker - zack marker strip

0804976

<https://www.phoenixcontact.com/us/products/0804976>



Contactor marker - zack marker strip, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snap into flat marker groove, lettering field size: 17.5 x 9 mm, Number of individual labels: 5

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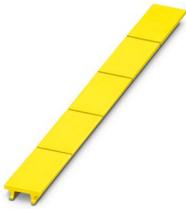
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## SS-ZB YE CUS - Contactor marker - zack marker strip

0824471

<https://www.phoenixcontact.com/us/products/0824471>



Contactor marker - zack marker strip, can be ordered: Strip, yellow, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 20 mm, lettering field size: 20 x 8 mm

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## TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/us/products/1208429>



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

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## SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/us/products/1208432>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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## SACC BIT M12-D20 - Tool

1208445

<https://www.phoenixcontact.com/us/products/1208445>



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

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## SZK PZ1 VDE - Screwdriver

1206450

<https://www.phoenixcontact.com/us/products/1206450>



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

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## WIREFOX 4 - Stripping tool

1212156

<https://www.phoenixcontact.com/us/products/1212156>



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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