

# SACB-4/ 4-L-SC SCO P - Distributor box



1452987

<https://www.phoenixcontact.com/us/products/1452987>

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Distributor box, application: Standard, connection method: M12-SPEEDCON-socket Plastic, number of slots: 4, number of positions: 4, coding: A, slot assignment: single, status display: Yes, pnp; master cable connection: Spring-cage connection 180°, shielding: no

## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- 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

## Commercial data

Item number	1452987
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	BF3CBC
Catalog page	Page 262 (C-2-2019)
GTIN	4046356553605
Weight per piece (including packing)	156.5 g
Weight per piece (excluding packing)	156.8 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

General	<p>When connecting the signal lines to the black PCB terminal blocks, please use a 0.4 x 2.0 mm screwdriver.</p> <p>The black PCB terminal blocks only require a minimal amount of operating force.</p> <p>Screwdriver: SZS 0,4X2,0 - 1205202</p> <p>Using larger screwdrivers or excessive force may damage the PCB terminal blocks.</p> <p>When using ferrules, the wires can be inserted straight into the PCB terminal blocks without opening the clamping area.</p>
General	<p>Item 1412058 SACB-4/ 8-L-PT SCO P is a version with the same connection cross section for signals and energy supply from 0.2 mm<sup>2</sup> to 1 mm<sup>2</sup>. This sensor/actuator box with double slot assignment also features a master cable connection with Push-in connection terminal blocks.</p>
General	<p><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.</p>
General	<p>Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".</p>

### Product properties

Product type	Distributor box
Number of positions	4
Application	Standard
Number of slots	4
Coding	A
LED	yes

### System properties

Local diagnostics	
Monitored function	Supply voltage
Optical representation	Green LED

### Electrical properties

Max. operating voltage $U_{max}$	30 V DC
Local diagnostics	Supply voltage Green LED
	Status display I/O Yellow LED
Nominal voltage $U_N$	24 V DC
Rated current, total	12 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

### Connection data

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## Conductor connection

Sensor/actuator connection system	M12-SPEEDCON-socket
Conductor cross section Flexible signal line	0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross section Flexible power supply	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG Flexible signal line	24 ... 20
Connection cross section AWG Flexible power supply	24 ... 16
Tightening torque, cover screw	1 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm
Tightening torque, union nut	2.5 Nm

## Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	2 / 4 (A) = GN
	3 / 4 (A) = YE
	4 / 4 (A) = GY
	1-4 / 1 (+ 24 V) = BN
	1-4 / 3 (0 V) = BU
	1-4 / 5 (PE) = GNYE

## Signaling

Status display present	Yes
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## Dimensions

Dimensional drawing	<p>The drawing shows two views of the distributor box. The side view (top) shows a height of 42.6 mm, a width of 54 mm, and a length of 117 mm. The top view (bottom) shows a width of 54 mm, a length of 107 mm, and a distance of 73 mm between the center of the two M12 sockets. A hole diameter of 4.5 mm is also indicated.</p>
Width	54 mm
Height	43 mm
Length	117 mm

## Material specifications

Material Threaded sleeve	PBT
Material Housing	PBT
Material Molding compound	PUR
Flammability rating according to UL 94	V0
Seal material O-ring	NBR
Contact material	Cu alloy
Contact surface material	gold-plated

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Contact carrier material	PA
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## Cable/line

External cable diameter ( )	7 mm ... 12 mm
Connection method	Spring-cage connection

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 80 °C

## Standards and regulations

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

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC003558
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### UNSPSC

UNSPSC 21.0	31251500
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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