

# SACB-8/16-SC SCO P - Distributor box



1452974

<https://www.phoenixcontact.com/us/products/1452974>

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Distributor box, application: Standard, connection method: M12 socket Plastic, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: no, Universal; master cable connection: Spring-cage connection 180°, shielding: no

## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Save space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

Item number	1452974
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	AF3CBC
GTIN	4046356553599
Weight per piece (including packing)	222.1 g
Weight per piece (excluding packing)	221.5 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Product properties

Product type	Distributor box
Application	Standard
Number of positions	5
Number of slots	8
Coding	A
LED	no

### Electrical properties

Nominal voltage $U_N$	120 V AC
	120 V DC
Rated current, total	12 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

### Connection data

#### Conductor connection

Sensor/actuator connection system	M12 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
Stripping length Signal line	6 mm
Stripping length Power supply	10 mm
Stripping length of the sheath	50 mm (Master cable)
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

#### Connection assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	1 / 2 (B) = GYPK
	2 / 4 (A) = GN
	2 / 2 (B) = RDBU
	3 / 4 (A) = YE
	3 / 2 (B) = WHGN
	4 / 4 (A) = GY
	4 / 2 (B) = BNGN
	5 / 4 (A) = PK
	5 / 2 (B) = WHYE

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	6 / 4 (A) = RD
	6 / 2 (B) = YEBN
	7 / 4 (A) = BK
	7 / 2 (B) = WHGY
	8 / 4 (A) = VT
	8 / 2 (B) = GYBN
	1-8 / 1 (+ 120 V) = BN
	1-8 / 3 (0 V) = BU
	1-8 / 5 (PE) = GNYE

## Signaling

Status display present	no
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## Dimensions

Dimensional drawing	
Width	54 mm
Height	42 mm
Length	149 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
Contact carrier material	PA

## 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

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Ambient temperature (operation)	-25 °C ... 80 °C
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## Standards and regulations

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

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## Drawings

Dimensional drawing



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Schematic diagram



M12 slot, socket, 5-pos.

Circuit diagram



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## Approvals

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 <b>cUL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	120 V	-	-	-

 <b>UL Recognized</b> Approval ID: E118976				
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keine				
	120 V	-	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440111
ECLASS-15.0	27440111

### ETIM

ETIM 10.0	EC003558
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### UNSPSC

UNSPSC 21.0	31251500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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