

# SACB-8/16-L-PT QO - Distributor box



1175449

<https://www.phoenixcontact.com/us/products/1175449>

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Distributor box, connection method: QUICKON, 0.14 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, number of slots: 8, number of positions: 5, slot assignment: Double, status display: yes, PNP; master cable connection: Push-in connection 180°, shielding: no, When connecting 5 conductors, max. 0.5 mm<sup>2</sup> can be connected

## 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
- Innovative and time-saving assembly with insulation displacement connection
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

Item number	1175449
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	AF3DBC
GTIN	4063151205225
Weight per piece (including packing)	386.4 g
Weight per piece (excluding packing)	386 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Notes

Assembly note	<b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
Note on application	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".
Note on application	Cables with 5 conductors may have a maximum connection cross-section of 0.5 mm <sup>2</sup> /20 AWG.

### Product properties

Product type	Distributor box
Number of positions	5
Number of slots	8
LED	yes

### System properties

#### Local diagnostics

Monitored function	Supply voltage per module
Optical representation	Green LED

### Electrical properties

Max. operating voltage $U_{max}$	30 V DC
Local diagnostics	Supply voltage per module Green LED
	Status display I/O Yellow LED
Nominal voltage $U_N$	24 V DC
Rated current, total	10 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

### Connection data

#### Conductor connection

Sensor/actuator connection system	QUICKON
Conductor cross-section Flexible signal line	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross-section Flexible power supply	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Connection cross section AWG Flexible signal line	26 ... 20
Connection cross section AWG Flexible power supply	26 ... 20
Stripping length Signal line	8 mm
Stripping length of the sheath	50 mm (Master cable)
Tightening torque, cover screw	0.35 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm
Tightening torque, union nut	4 Nm

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## Connection assignment

Slot/position = Wire color or connection	
	1 / 4 (A) = 1 / 4
	1 / 2 (B) = 1 / 2
	2 / 4 (A) = 2 / 4
	2 / 2 (B) = 2 / 2
	3 / 4 (A) = 3 / 4
	3 / 2 (B) = 3 / 2
	4 / 4 (A) = 4 / 4
	4 / 2 (B) = 4 / 2
	5 / 4 (A) = 5 / 4
	5 / 2 (B) = 5 / 2
	6 / 4 (A) = 6 / 4
	6 / 2 (B) = 6 / 2
	7 / 4 (A) = 7 / 4
	7 / 2 (B) = 7 / 2
	8 / 4 (A) = 8 / 4
	8 / 2 (B) = 8 / 2
	1-8 / 1 (+ 24 V) = U <sub>N</sub>
	1-8 / 3 (0 V) = 0 V
	1-8 / 5 (PE) = PE

## Signaling

Status display present	yes
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## Dimensions

Dimensional drawing	
	<p>The drawing shows two views of the distributor box. The top view indicates a total length of 168 mm and a width of 58 mm. The front view shows a height of 45 mm and a mounting hole diameter of Ø4.5 mm. Other dimensions include 154 mm for the main body length, 4.5 mm for the mounting hole offset, 5.1 mm for the terminal offset, 73 mm for the terminal spacing, and 107 mm for the terminal block length.</p>
Width	58 mm
Height	45 mm
Length	168 mm
Wrench size, union nut	16 mm

## Material specifications

Material Housing	PBT
Material Molding compound	PUR
Flammability rating according to UL 94	V0
Seal material O-ring	FKM
Seal material	FKM

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Contact material	Steel/copper
Contact surface material	Sn
Contact carrier material	PA 6.6
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	Sn
Wire insulation material	PVC / PE / PP / rubber

## Cable/line

External cable diameter	7 mm ... 12 mm
Connection method	Push-in connection

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-30 °C ... 80 °C
	-5 °C ... 50 °C (During assembly)

# SACB-8/16-L-PT QO - Distributor box

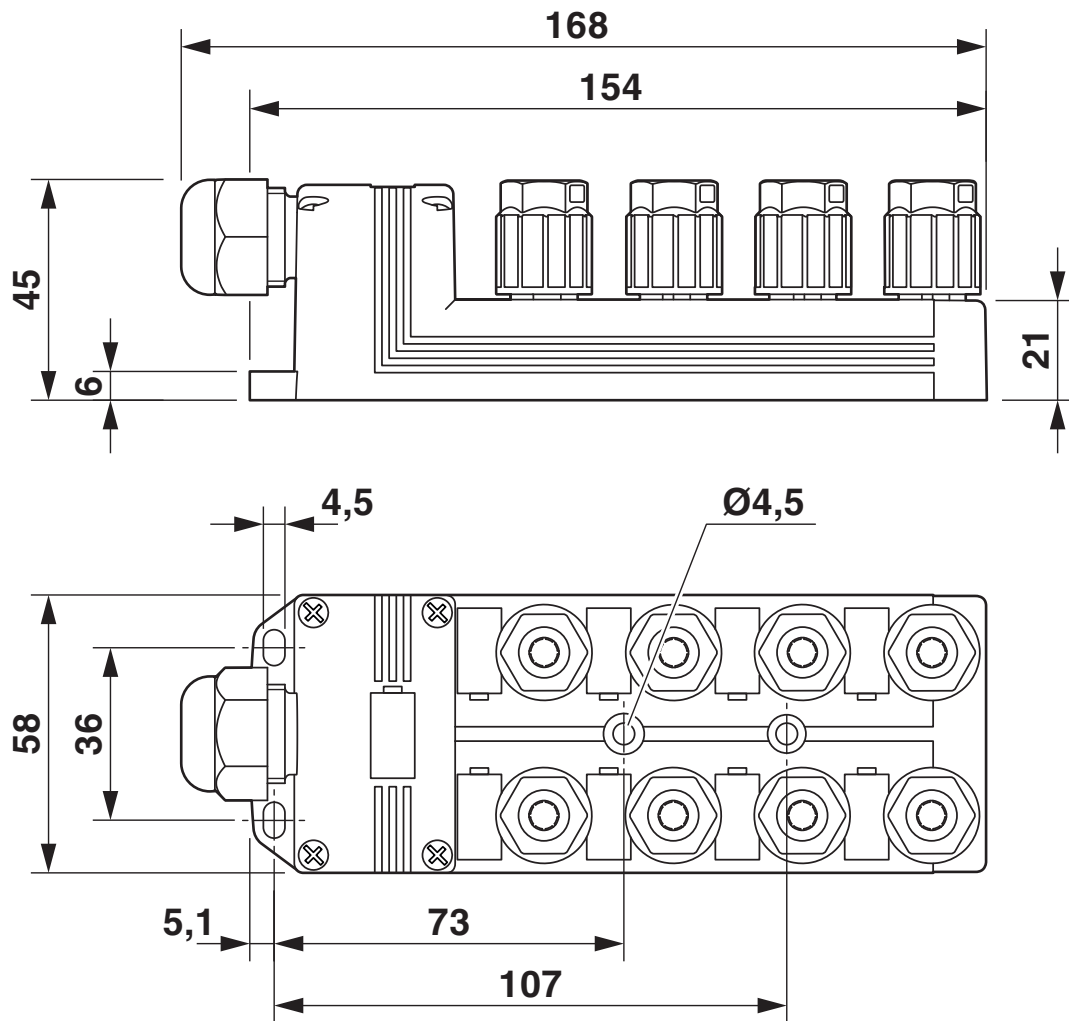


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## Drawings

Dimensional drawing

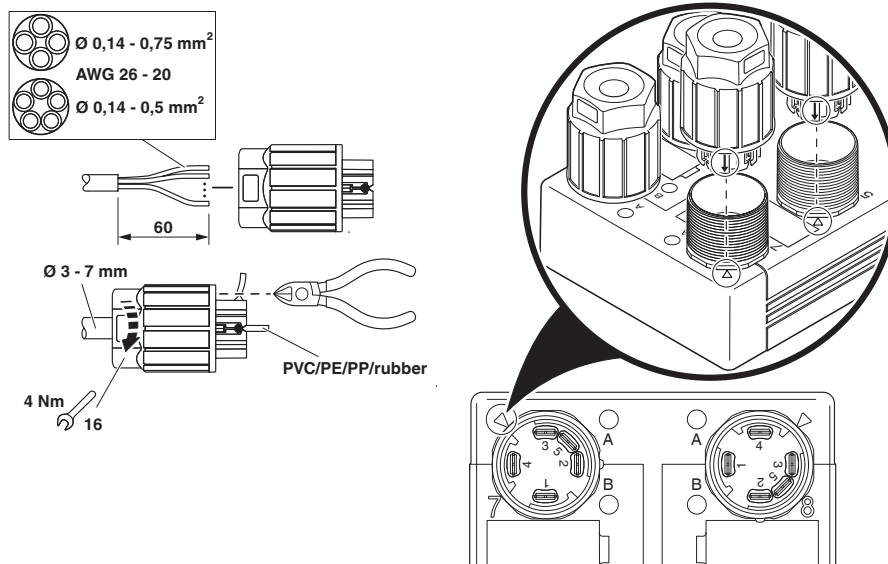


# SACB-8/16-L-PT QO - Distributor box

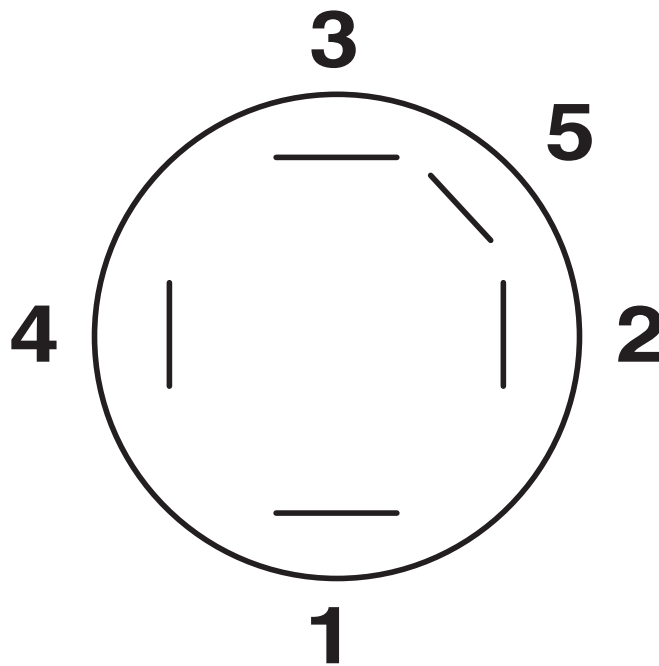
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Functional drawing



Schematic diagram



QUICKON connection, 5-pos.

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Circuit diagram



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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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