

# SACB-8 8-L-20,0PUR SCO P - Distributor box



1148535

<https://www.phoenixcontact.com/us/products/1148535>

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Distributor box, application: Standard, connection method: M12 socket, number of positions: 4, status display: yes; master cable connection: Fixed connection, PUR/PVC, cable length: 20 m, shielding: no

## Commercial data

Item number	1148535
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	AF3CBA
GTIN	4063151142230
Weight per piece (including packing)	2,467 g
Weight per piece (excluding packing)	2,468 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Product properties

Product type	Distributor box
Application	Standard
Number of positions	4

### Electrical properties

Max. operating voltage $U_{max}$	30 V DC
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

#### Conductor connection

Sensor/actuator connection system	M12 socket
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm

### Signaling

Status display present	yes
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### Material specifications

Flammability rating according to UL 94	V0
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### Cable/line

Cable length	20 m
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#### PUR/PVC black [PUR]

Dimensional drawing	
Cable weight	107.4 kg/km
UL AWM Style	20549 (80°C/300 V)
Number of positions	11
Shielded	no
Cable type	PUR/PVC black [PUR]
Conductor structure signal line	19x 0.15 mm

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AWG signal line	22
Conductor structure, voltage supply	42x 0.15 mm
AWG power supply	18
Conductor cross-section	8x 0.34 mm <sup>2</sup> (Signal line)
	3x 0.75 mm <sup>2</sup> (power line)
Wire diameter incl. insulation	1.3 mm ±0.1 mm (Signal line)
	1.8 mm ±0.1 mm (power line)
External cable diameter	8.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.38 mm
Overall twist	Wires twisted in layers
Max. conductor resistance	≤ 53 Ω/km (Signal line)
	≤ 26 Ω/km (power line)
Insulation resistance	≥ 5 MΩ*km
Nominal voltage, cable	300 V AC
Test voltage Core/Core	2000 V (50 Hz, 5 min.)
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	64 mm
Smallest bending radius, movable installation	85 mm
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 10 x D, Traversing path: 2 m, Traversing rate: 2 m/s
Flame resistance	DIN EN 50265
Resistance to oil	according to VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
Special properties	Silicone-free
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67

## Standards and regulations

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

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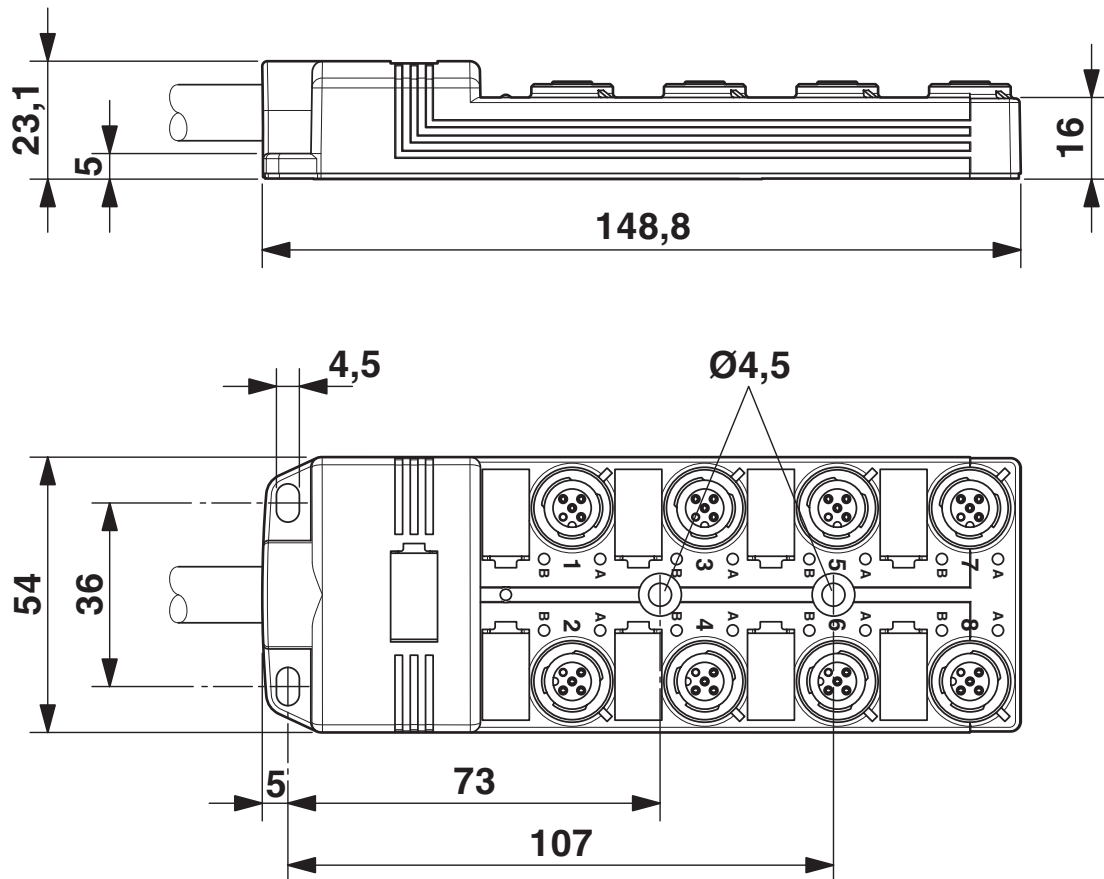


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## Drawings

Dimensional drawing



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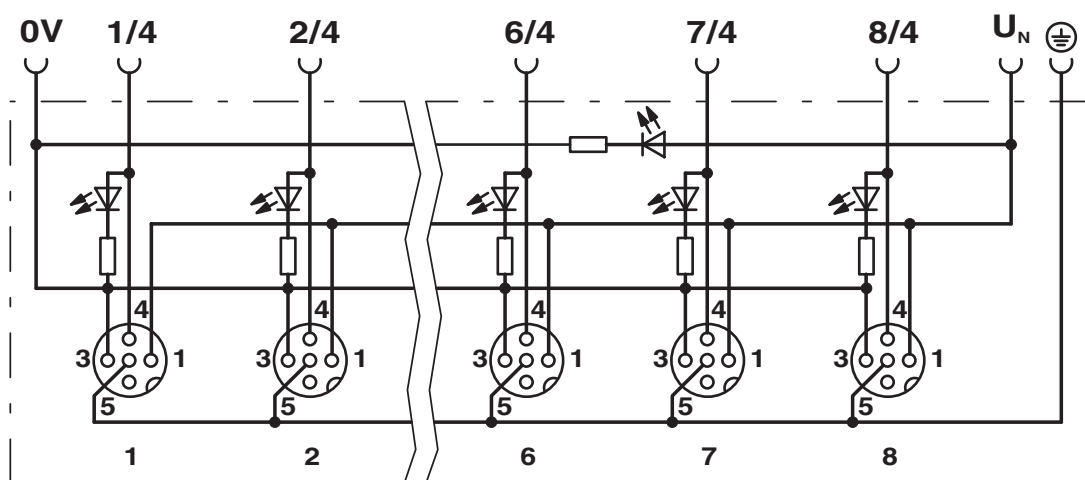
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Schematic diagram



M12 slot, socket, 4-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				
	24 V	-	-	-

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Signal	-	2 A	-	-
	24 V	4 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440108
ECLASS-15.0	27440108

### ETIM

ETIM 10.0	EC002585
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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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