

# SACB-8/16- 5,0PUR - Distributor box



1680924

<https://www.phoenixcontact.com/us/products/1680924>

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Distributor box, 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: Fixed connection 180°, PUR/PVC, cable length: 5 m, shielding: no

## Your advantages

- Safety in the field, thanks to robust housing and high degree of protection
- Save space: distributor box with double occupancy for two sensors in one slot

## Commercial data

Item number	1680924
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	AF3CBA
GTIN	4017918171247
Weight per piece (including packing)	1,110.9 g
Weight per piece (excluding packing)	1,110.9 g
Customs tariff number	85444290
Country of origin	PL

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## Technical data

### Product properties

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

### Electrical properties

Max. operating voltage $U_{max}$	135 V
Nominal voltage $U_N$	120 V
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

#### 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
	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

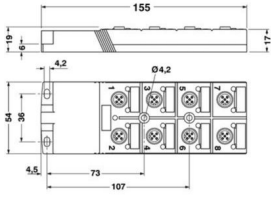
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Status display present	no
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## Dimensions

Dimensional drawing	
Width	54 mm
Height	19 mm
Length	155 mm

## Material specifications

Material Threaded sleeve	PA
Material Housing	PA
Flammability rating according to UL 94	V0
Seal material O-ring	NBR
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA

## Cable/line

Cable length	5 m
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### PUR/PVC black [PUR]

Dimensional drawing	
Cable weight	183.7 kg/km
UL AWM Style	20549 (80°C/300 V)
Number of positions	19
Shielded	no
Cable type	PUR/PVC black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor structure, voltage supply	56x 0.15 mm

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AWG power supply	17
Conductor cross-section	16x 0.5 mm <sup>2</sup> (Signal line)
	3x 1 mm <sup>2</sup> (power line)
Wire diameter incl. insulation	1.5 mm ±0.1 mm (Signal line)
	2.1 mm ±0.1 mm (power line)
External cable diameter	10.50 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, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.76 mm
Overall twist	Wires twisted in layers
Nominal voltage, cable	300 V
Test voltage	2000 V
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	79 mm
Smallest bending radius, movable installation	105 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	according to 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
Ambient temperature (operation)	-25 °C ... 75 °C

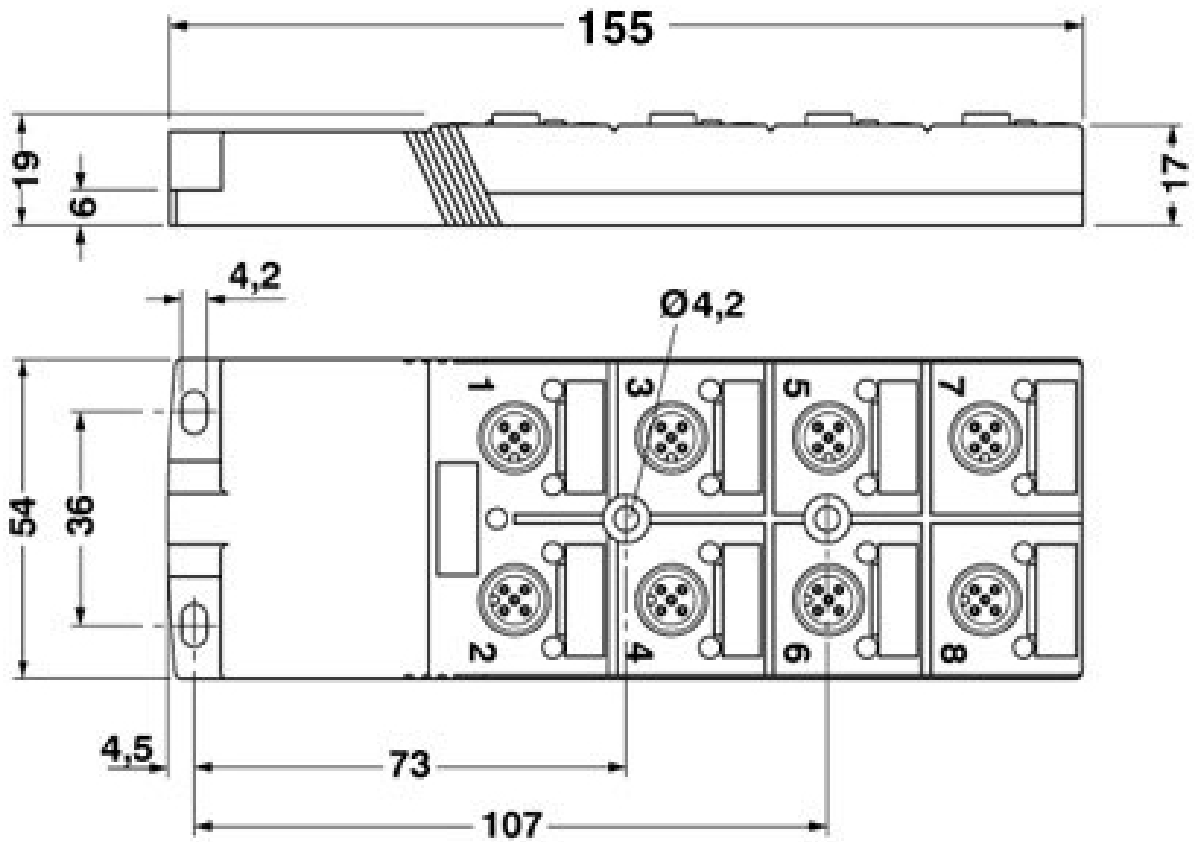
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## Drawings

Dimensional drawing

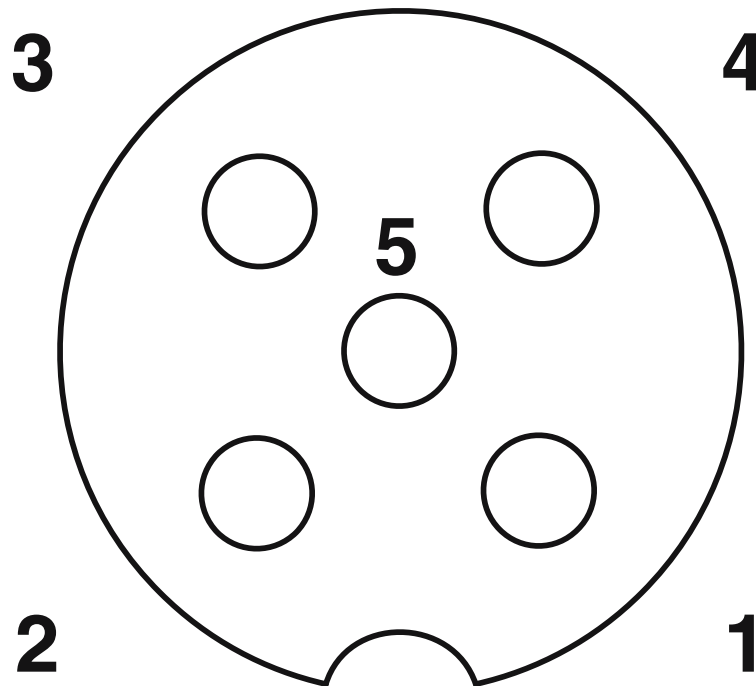


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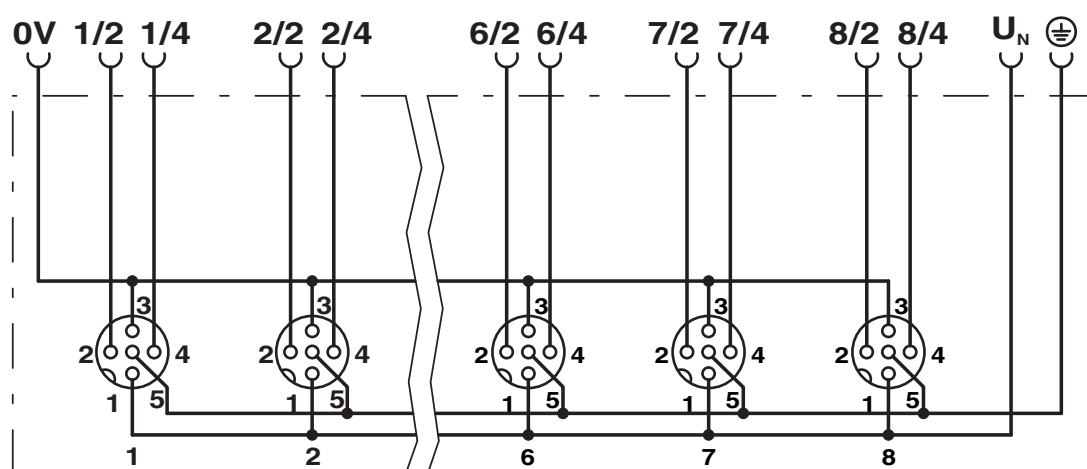
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Schematic diagram



M12 slot, socket, 5-pos.

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27440108
ECLASS-15.0	27440108

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## Environmental product compliance

EU REACH SVHC

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