

# SACB-8/16-C OD - Distributor box



1457380

<https://www.phoenixcontact.com/us/products/1457380>

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Distributor box, application: External areas, connection method: M12 socket Metal, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: no, Universal; master cable connection: Pluggable screw 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
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

Item number	1457380
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF44
Product key	AF3EBD
GTIN	4046356620857
Weight per piece (including packing)	373.9 g
Weight per piece (excluding packing)	370.3 g
Customs tariff number	85366990
Country of origin	DE

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## 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".

### Product properties

Product type	Distributor box
Application	External areas
Number of positions	5
Number of slots	8
Coding	A

### Electrical properties

Max. operating voltage $U_{max}$	135 V
Nominal voltage $U_N$	120 V AC
	120 V DC
Rated current, total	10 A
	2x 8 A (For electrical isolation)
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	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section Flexible power supply	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG Flexible signal line	26 ... 16
Connection cross section AWG Flexible power supply	26 ... 16
Stripping length Signal line	7 mm
Tightening torque, cover screw	0.35 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque, union nut	2.5 Nm

#### 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

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	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 (+ 120 V) = U <sub>N</sub>
	1-8 / 3 (0 V) = 0 V
	1-8 / 5 (PE) = PE

## Signaling

Status display present	no
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## Dimensions

Dimensional drawing	
Width	58 mm
Height	45 mm
Length	153 mm

## Material specifications

Material Threaded sleeve	Die-cast zinc
Material Housing	PBT
Material Molding compound	PUR
Seal material O-ring	FPM
Contact material	Cu alloy
Contact surface material	gold-plated
Contact carrier material	PA
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	gold-plated

## Cable/line

External cable diameter	7 mm ... 12 mm
Connection method	Pluggable screw connection

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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-40 °C ... 80 °C

## Standards and regulations

### M12

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

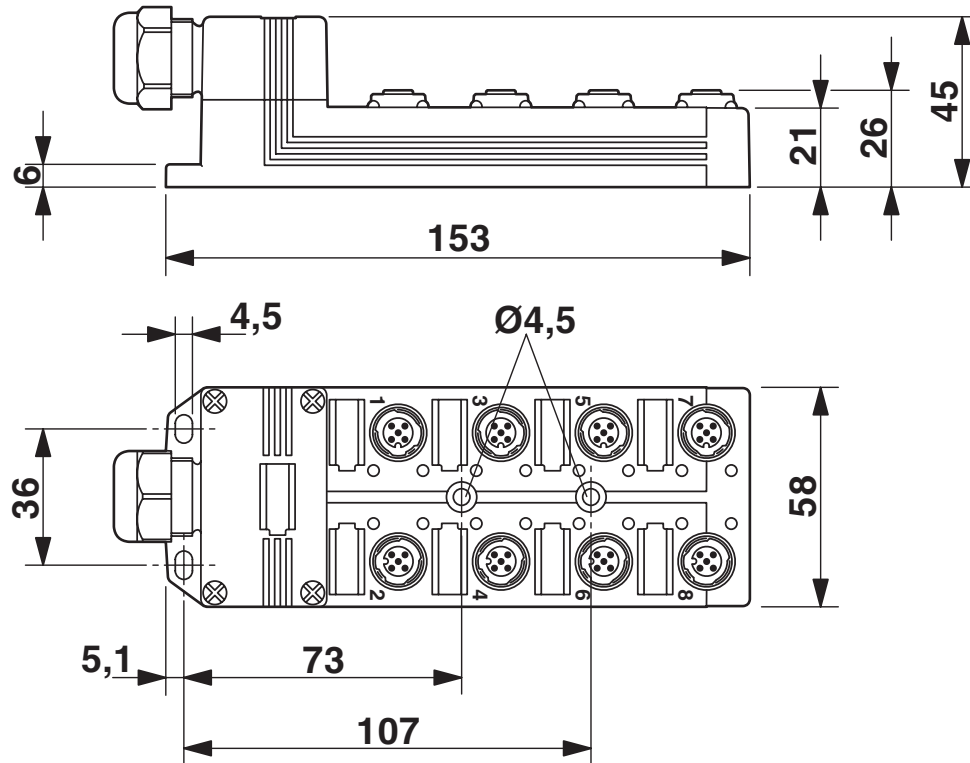
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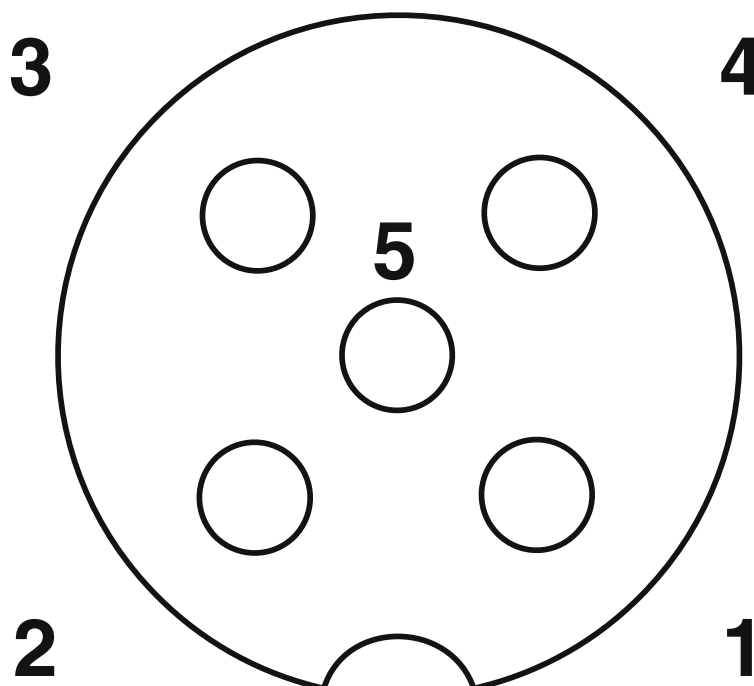
<https://www.phoenixcontact.com/us/products/1457380>

## Drawings

Dimensional drawing



Schematic diagram



M12 slot, socket, 5-pos.

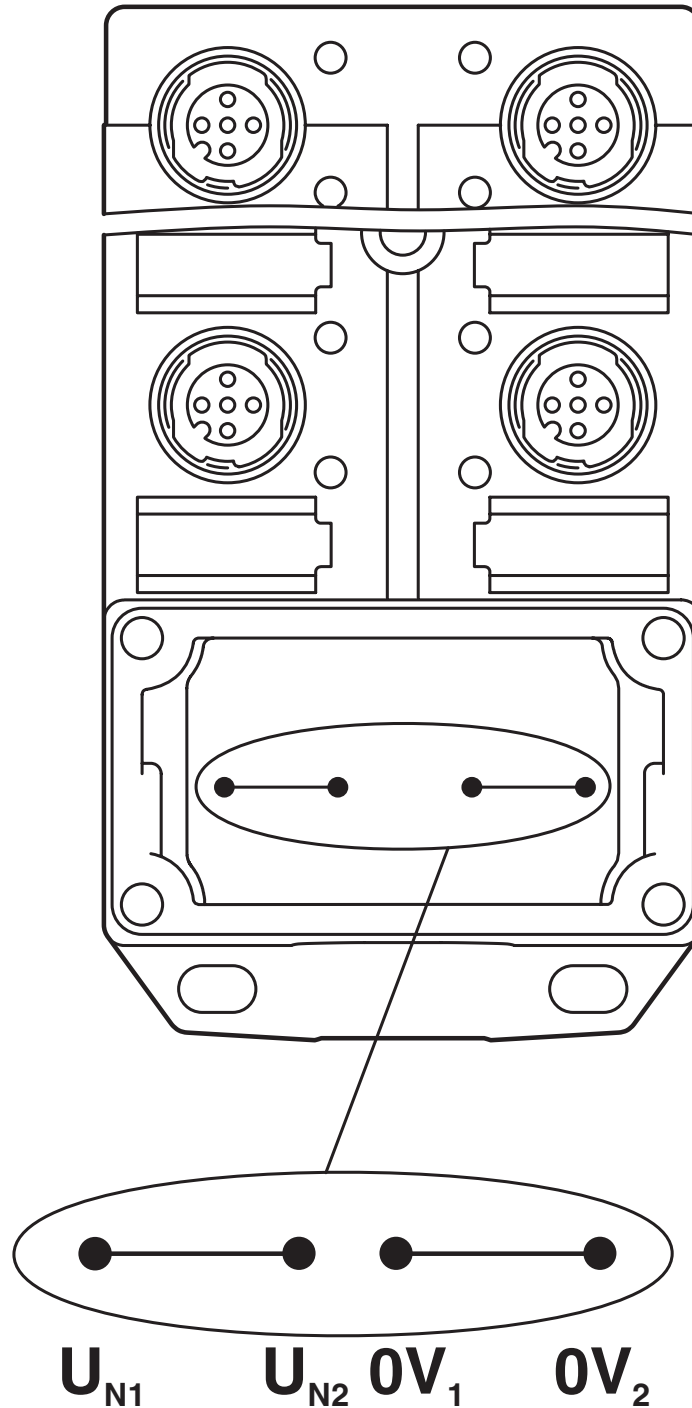
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Schematic diagram



Potential  $U_{N1}$  and  $U_{N2}$  bridged

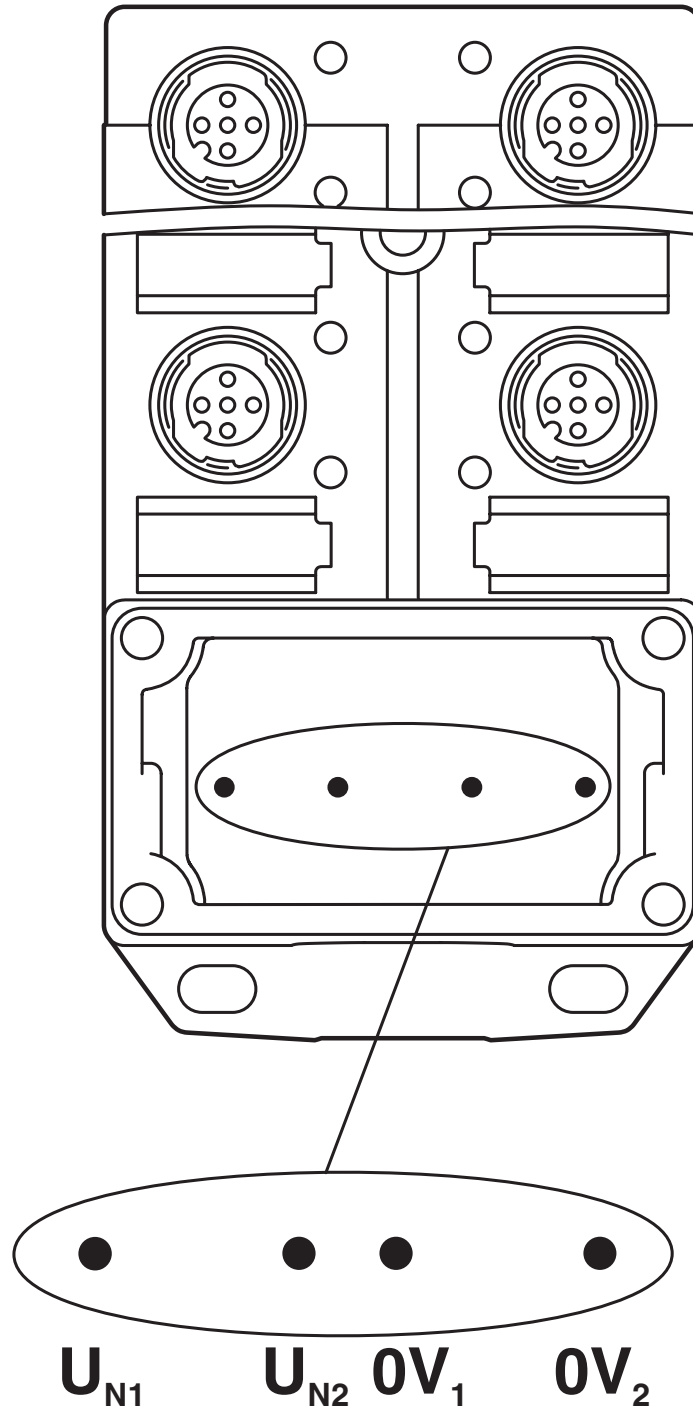
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Schematic diagram



Electrically isolated

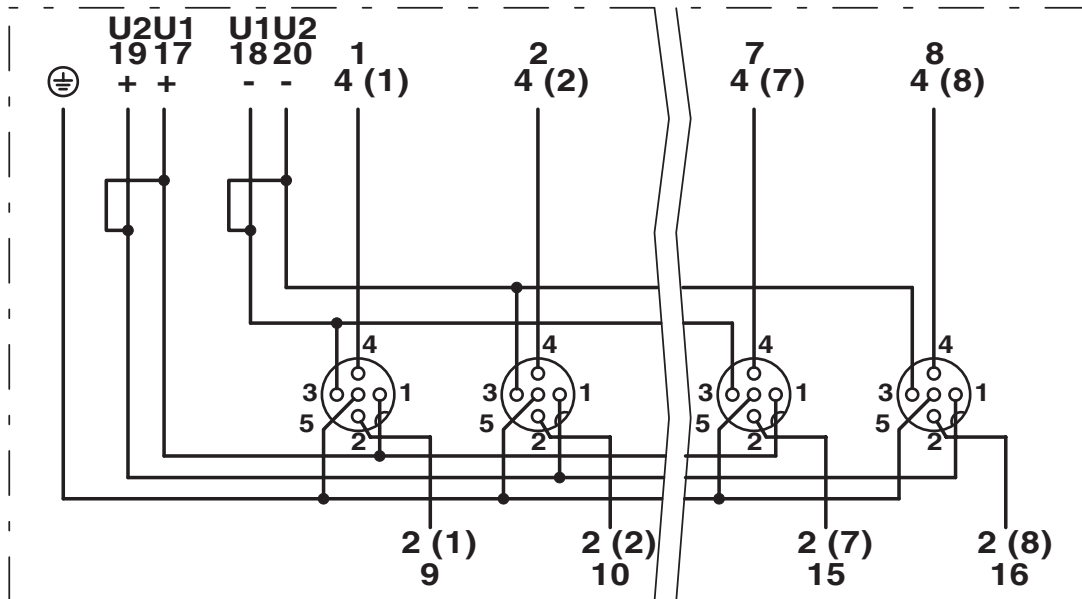
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Circuit diagram



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## Approvals

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**DNV**

Approval ID: TAE00002K4

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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
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	204d9112-439b-4a22-862d-fa26b07d3485

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