

SACB-4/ 4- 5,0PUR SCO - Distributor box



1516962

<https://www.phoenixcontact.com/us/products/1516962>

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Distributor box, application: Standard, extended requirements, connection method: M12 socket Metal, number of slots: 4, number of positions: 4, coding: A, slot assignment: single, 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 molded housing and high degree of protection
- Save time, thanks to installation with SPEEDCON fast locking system

Commercial data

Item number	1516962
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF42
Product key	AF3CCA
GTIN	4017918967635
Weight per piece (including packing)	656.5 g
Weight per piece (excluding packing)	631.2 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Notes

Assembly note	NOTE: 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	Standard, extended requirements
Number of positions	4
Number of slots	4
Coding	A
LED	no

Electrical properties

Max. operating voltage U_{max}	135 V
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
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm

Connection assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	2 / 4 (A) = GN
	3 / 4 (A) = YE
	4 / 4 (A) = GY
	1-4 / 1 (+ 120 V) = BN
	1-4 / 3 (0 V) = BU
	1-4 / 5 (PE) = GNYE

Signaling

Status display present	no
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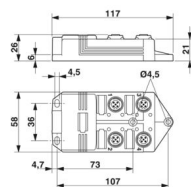
Dimensions

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Dimensional drawing		
Width		58 mm
Height		26 mm
Length		117 mm

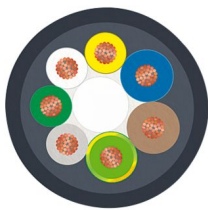
Material specifications

Material Threaded sleeve	Die-cast zinc
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

Cable length	5 m
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PUR/PVC black [PUR]

Dimensional drawing		
Cable weight		77.9 kg/km
UL AWM Style		20549
Number of positions		7
Shielded		no
Cable type		PUR/PVC black [PUR]
Conductor structure signal line		19x 0.15 mm
AWG signal line		22
Conductor structure, voltage supply		42x 0.15 mm
AWG power supply		18
Conductor cross section		4x 0.34 mm² (Signal line)
		3x 0.75 mm² (power line)
Wire diameter incl. insulation		1.3 mm ±0.1 mm (Signal line)

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	1.8 mm ±0.1 mm (power line)
External cable diameter	6.90 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
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.38 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	52 mm
Smallest bending radius, movable installation	69 mm
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 69 mm, 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)
	80 °C (in acc. with UL)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP69K
Ambient temperature (operation)	-30 °C ... 90 °C

Standards and regulations

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

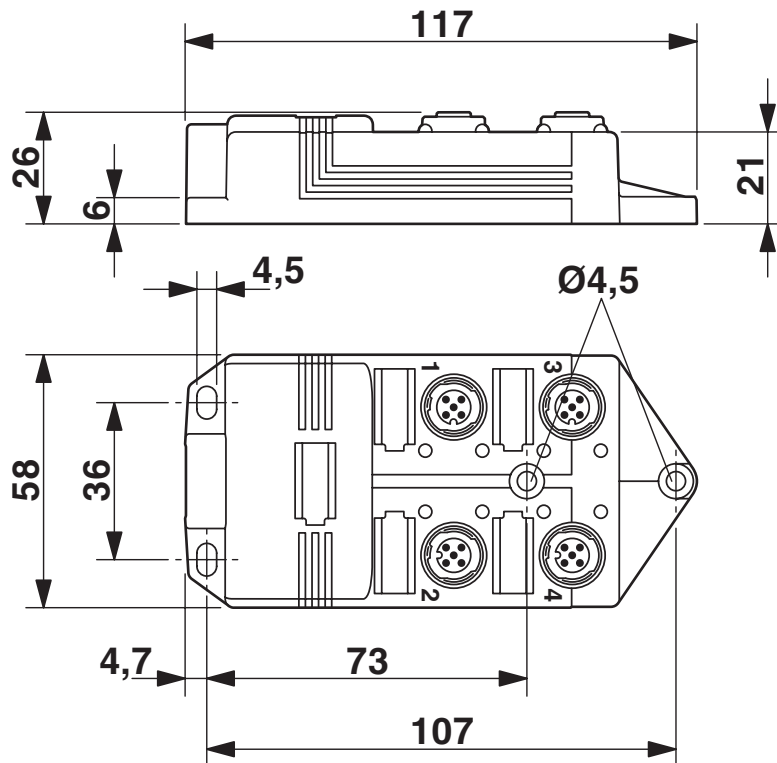
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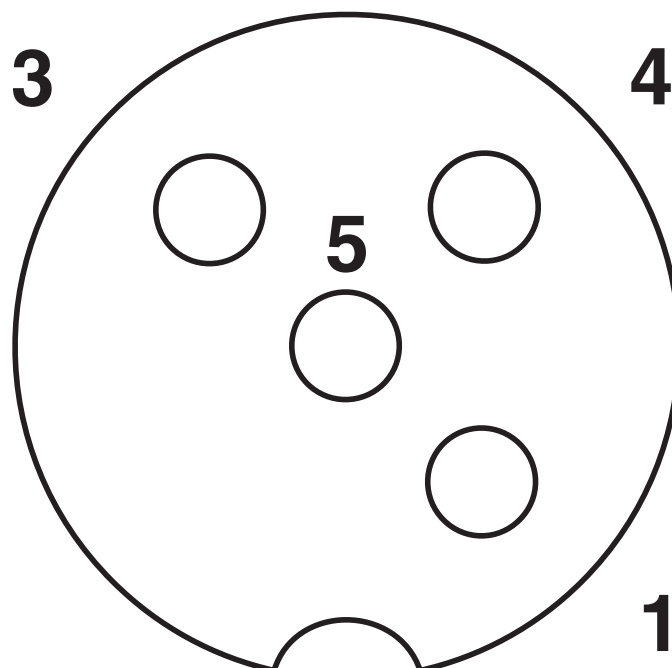
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Drawings

Dimensional drawing



Schematic diagram



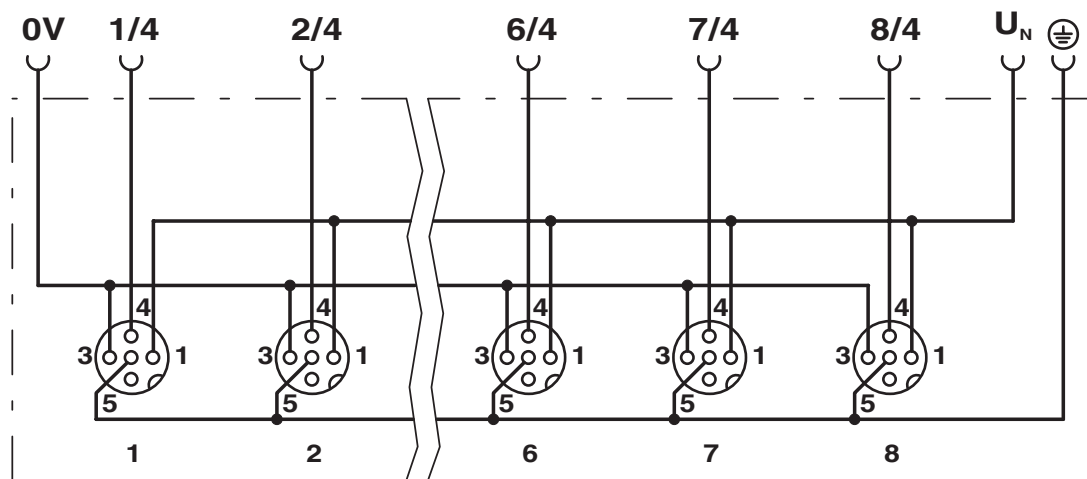
M12 slot, socket, 4-pos.

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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1516962>

 cUL Recognized Approval ID: E118976				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	120 V	3 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27440108
ECLASS-15.0	27440108

ETIM

ETIM 9.0	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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