

## SACB-6/12- 5,0PUR


Order No.: 1680908

The illustration shows a version with 8 slots

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1680908>

Sensor/actuator box, M12 female connector, Number of slots: 6,  
Number of positions: 5, Slot assignment: Double, Status indication:  
No, Universal 180°, PUR/PVC, Cable length: 5 m, Shielding: No

### Commercial data

GTIN (EAN)	
sales group	D101
Pack	1 pcs.
Customs tariff	85366990
Catalog page information	Page 114 (PC-2009)

### Product notes

WEEE/RoHS-compliant since:  
11/03/2006



<http://www.download.phoenixcontact.com>  
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### Technical data

#### General data

Rated voltage	120 V
Max. operating voltage $U_{max}$	135 V
Current carrying capacity per I/O signal	2 A
Current carrying capacity per slot	4 A

Total rated current	12 A
Number of positions	5
Number of slots	6
Degree of protection	IP65/IP67
Inflammability class acc. to UL 94	V0
Ambient temperature (operation)	-25 °C ... 75 °C
Sensor/actuator connection system	M12 female connector

#### Master cable data

Type of connection	Fixed connection
Length of cable	5 m
Cable type	Master cable suitable for flexible cable conduit
Signal line cross section	12x 0.5 mm <sup>2</sup>
AWG signal line	20
Conductor structure signal line	64x 0.10 mm
Power supply cross section	3x 1 mm <sup>2</sup>
AWG power supply	17
Conductor structure, voltage supply	128x 0.10 mm
External diameter	10.5 mm
Max. bending cycles	1500000
Bending radius	110 mm
Traversing path	2 m
Traversing rate	2 m/s
Ambient temperature (operation)	-40 °C ... 90 °C (for fixed installation) -5 °C ... 80 °C (for flexible installation)

#### Insulation material

Housing material	PA
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA
Material, O-ring	NBR

#### Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
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	1 / 2 (B) = GY/PK
	2 / 4 (A) = GN
	2 / 2 (B) = RD/BU
	3 / 4 (A) = YE
	3 / 2 (B) = WH/GN
	4 / 4 (A) = GY
	4 / 2 (B) = BN/GN
	5 / 4 (A) = PK
	5 / 2 (B) = WH/YE
	6 / 4 (A) = RD
	6 / 2 (B) = YE/BN
	1-6 / 1 (+ 120 V) = BN
	1-6 / 3 (0 V) = BU
	1-6 / 5 (PE) = GN/YE

**Certificates / Approvals**



Certification CUL, GOST, UL

**Accessories**

Item	Designation	Description
<b>Marking</b>		
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

**Protection and sealing elements**

1680539	PROT-M12	An M12 screw plug for the unoccupied M12 sockets of the sensor/ actuator cable, boxes and flush-type connectors
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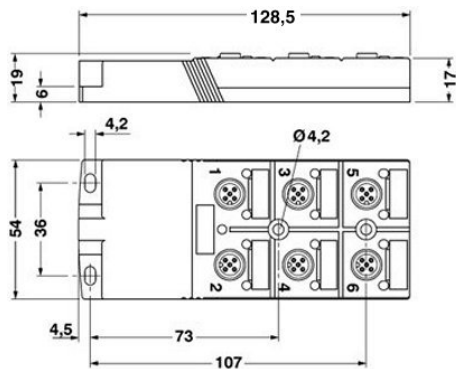
**Tools**

1208432	SAC BIT M12-D15	Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive
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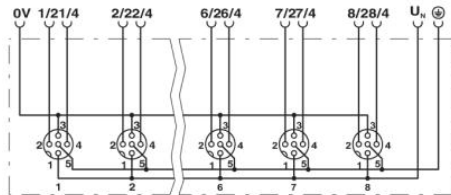
1208445	SACC BIT M12-D20	Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive
1208429	TSD 04 SAC	Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

**Diagrams/Drawings**

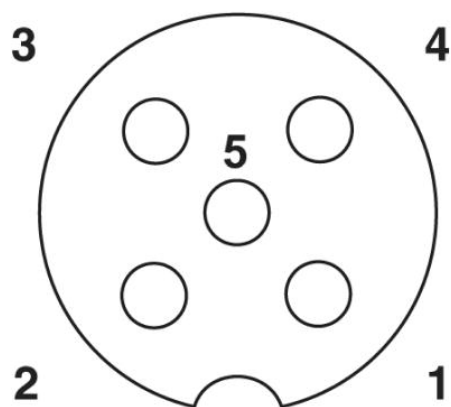
Dimensioned drawing



Circuit diagram



Schematic diagram



M12 slot, socket, 5-pos.

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