

SACB-8/16-C OD

Order No.: 1457380

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1457380>

Sensor/actuator box, M12 female connector, Number of slots: 8,
Number of positions: 5, Slot assignment: Double, Status indication:
No; Master cable connection: Pluggable screw connection 180°,
Shielding: No

Commercial data

GTIN (EAN)	4 046356 620857
sales group	D100
Pack	1 pcs.
Customs tariff	85366990
Catalog page information	Page 222 (PC-2011)

Product notes

WEEE/RoHS-compliant since:
09/08/2010



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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	10 A
	2x 8 A (For electrical isolation)
Number of positions	5
Number of slots	8
Degree of protection	IP65/67
Ambient temperature (operation)	-30 °C ... 80 °C
Sensor/actuator connection system	M12 female connector

Master cable connection data

Connection method	Pluggable screw connection
Conductor cross-section min. (signal)	0.14 mm ²
Conductor cross-section max. (signal)	1.5 mm ²
Conductor cross-section AWG min. (signal)	26
Conductor cross-section AWG max. (signal)	16
Conductor cross-section min. (energy)	0.14 mm ²
Conductor cross-section max. (energy)	1.5 mm ²
Conductor cross-section AWG min. (energy)	26
Conductor cross-section AWG max. (energy)	16
External cable diameter min.	7 mm
External cable diameter max.	12 mm
Stripping length	7 mm
Tightening torque, cover screw	0.35 Nm
Tightening torque, union nut	2.5 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque screw plug	0.4 Nm

Insulation material

Housing material	PBT
Material of the moulding mass	PUR
Contact material	Cu alloy
Contact surface material	Gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of contact surface, master cable side	Gold-plated
Material of the contact carrier on the master cable side	PA 66 V0

Material of threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	tin-plated
Material, O-ring	FPM

Pin 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
	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 _N
	1-8 / 3 (0 V) = 0 V
	1-8 / 5 (PE) = PE

Accessories

Item	Designation	Description
General		
1559893	SACB-16X0,5/ 3X1,0-200,0 PUR	Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm ² and 3 x 1.00 mm ² , length: 200 m on drum
1402304	SACB-16X0,5/ 3X1,0-50,0 80MC	Master cable for sensor/actuator boxes, 19-wire, unshielded, PUR halogen-free, drag chain and robot compatible, black outer sheath, 16 x 0.5 mm ² and 3 x 1.0 mm ²
1503373	SACB-16X0,5/ 3X1,0-50,0 PUR	Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm ² and 3 x 1.00 mm ² , length: 50 m

1430938	SACB-16X0,5/ 3X1,0-50,0 VPUR	Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm ² and 3 x 1.00 mm ² , length: 50 m
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Marking

0804963	SS-ZB 17,5 WH	Contactor marker Zack strip, unprinted: 5-section, for snapping into equipment and components with special marker carrier, can be labeled with M-PEN, CMS system or label BMKT 17.5 x 8, lettering field: 17.5 x 8 mm, color: white
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Protection and sealing elements

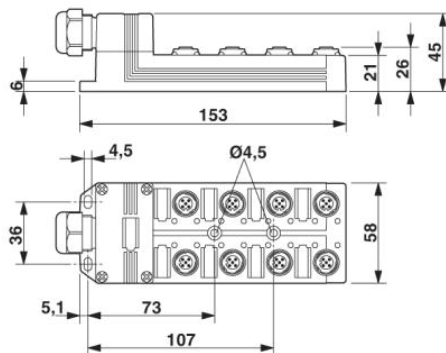
1555538	PROT-M12 FB	M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry
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Tools

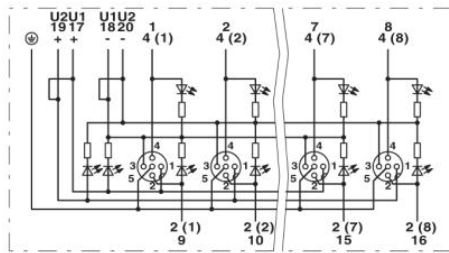
1212513	SAC BIT M12-W14	SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive
1206450	SZK PZ1 VDE	Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip
1208429	TSD 04 SAC	Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Diagrams/Drawings

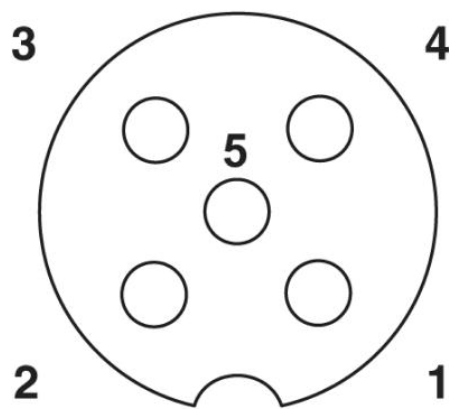
Dimensioned drawing



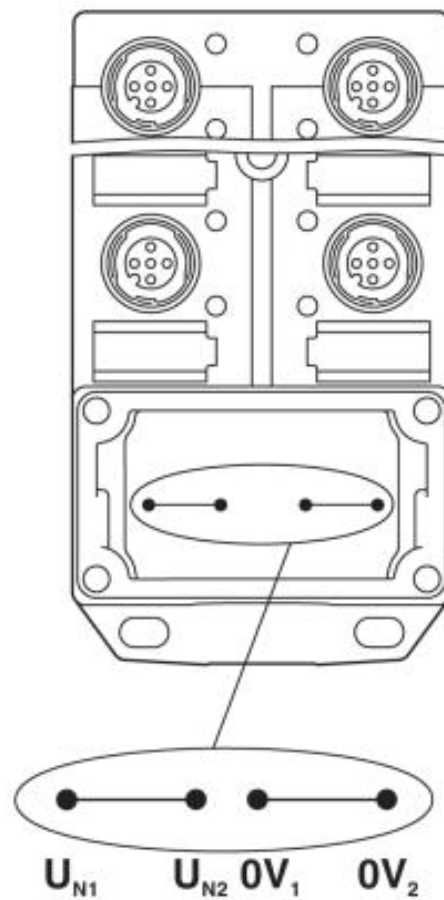
Circuit diagram



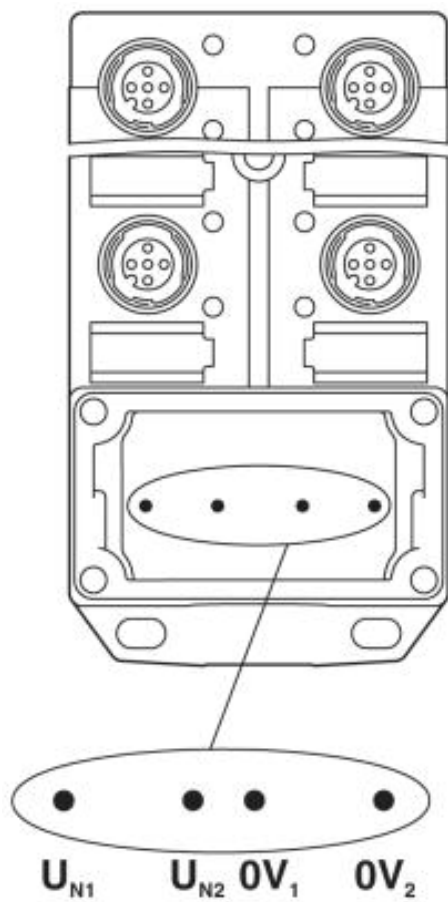
Schematic diagram



M12 slot, socket, 5-pos.



Potential U_{N1} and U_{N2} bridged



Electrically isolated

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