Sensor/actuator box - SACB-8/16-M23 SH - 1695773

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Sensor/actuator box, application: Standard, connection method: M12 socket Metal, number of slots: 8, number of positions: 5, coding: A - standard, slot assignment: Double, status display: No, Universal; master cable connection: M23 plug connection 90°, shielding: yes

Your advantages

☑ Safety in the field, thanks to molded housing and high degree of protection

☑ Flexible, distributed bundling of signals in one master cable

☑ Save space: distributor box with double occupancy for two sensors in one slot

☑ Reliable signal transmission – 360° shielding in environments with electromagnetic interference

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 899417
GTIN	4017918899417

Technical data

General

Rated voltage	48 V AC
	60 V DC
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	8
Flammability rating according to UL 94	V0
Sensor/actuator connection system	M12 socket
Note	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.

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Technical data

General

	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 70 °C

Master cable data/connection data

Connection method	M23 plug connection
Tightening torque slot sensor/actuator cable	0.4 Nm

Insulation material

Housing material	Aluminum
Housing surface material	Nickel-plated
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 6.6 V0
Material of threaded sleeve	Aluminum
O-ring material	NBR

Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = 15
	1 / 2 (B) = 7
	2 / 4 (A) = 5
	2 / 2 (B) = 4
	3 / 4 (A) = 16
	3 / 2 (B) = 8
	4 / 4 (A) = 3
	4 / 2 (B) = 14
	5 / 4 (A) = 17
	5 / 2 (B) = 9
	6 / 4 (A) = 2
	6 / 2 (B) = 13
	7 / 4 (A) = 11
	7 / 2 (B) = 10
	8 / 4 (A) = 1
	8 / 2 (B) = 18
	1-8 / 1 (+ 48 V) = 19

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Technical data

Pin assignment

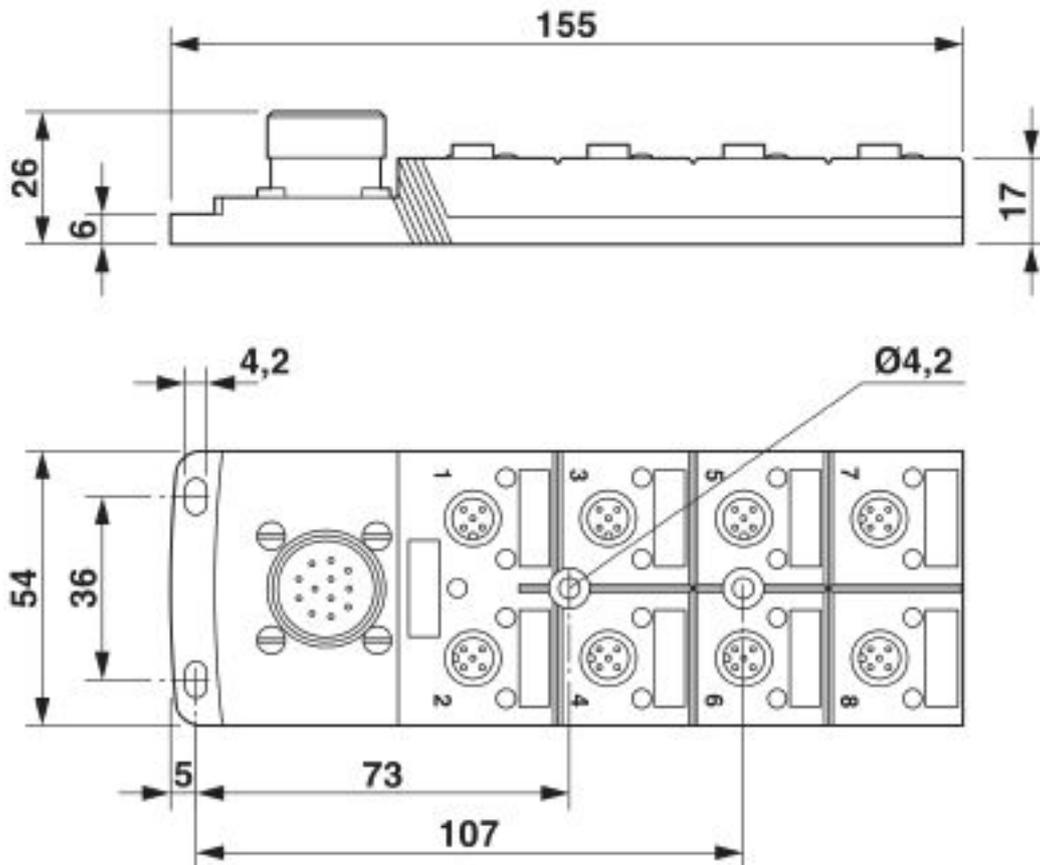|	
	1-8 / 3 (0 V) = 6
	1-8 / 5 (PE) = 12

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

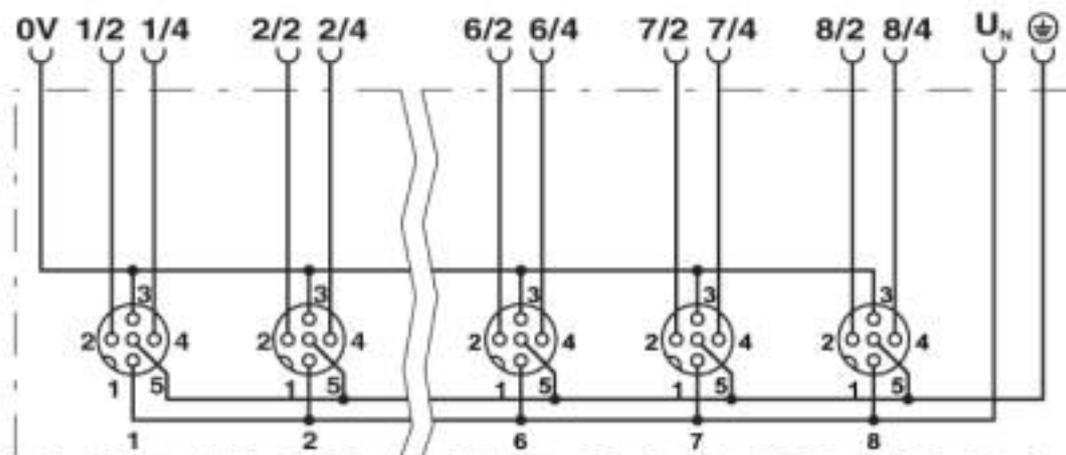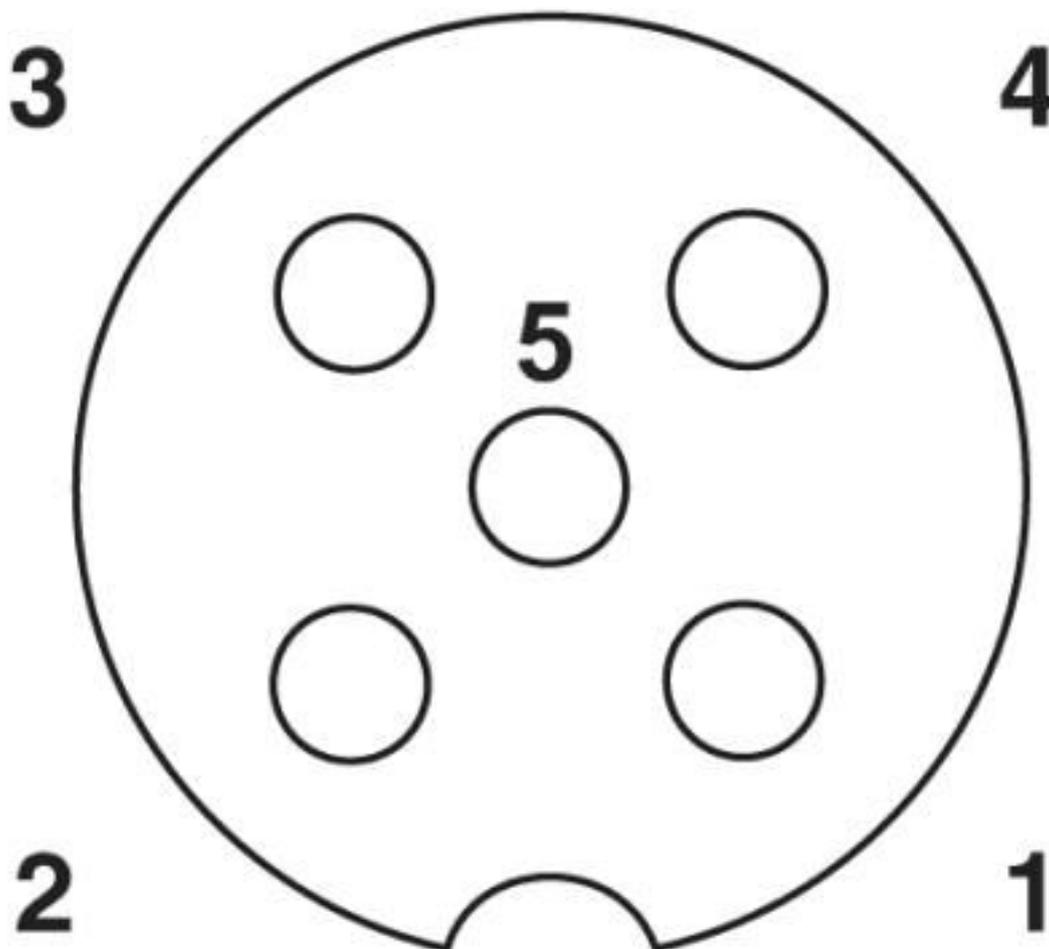## Drawings

Dimensional drawing

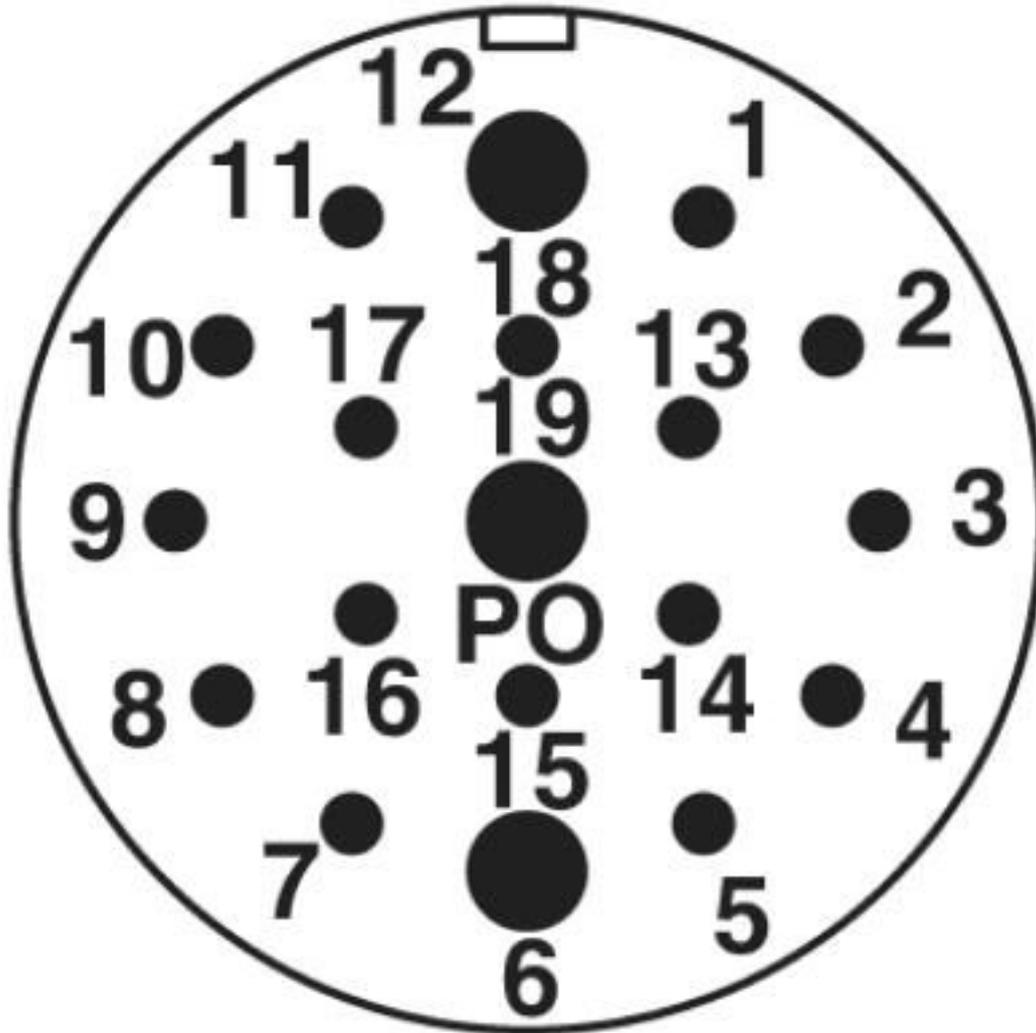# Sensor/actuator box - SACB-8/16-M23 SH - 1695773

Circuit diagram

Schematic diagram

M12 slot, socket, 5-pos.

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Schematic diagram

M23 plug connection pin, 19-pos.

Classifications

eCl@ss

eCl@ss 10.0.1	27440111
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27250300
eCl@ss 6.0	27279200
eCl@ss 7.0	27279219
eCl@ss 8.0	27279219

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Classifications

eCl@ss

eCl@ss 9.0	27440108

ETIM

ETIM 2.0	EC000200
ETIM 3.0	EC001856
ETIM 4.0	EC002585
ETIM 5.0	EC002585
ETIM 6.0	EC002585
ETIM 7.0	EC002585

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC	EAC	RU C-DE.AI30.B.01102

EAC	EAC	RU C-DE.BL08.B.00511

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Accessories

Accessories

Labeled terminal marker

Marker for terminal blocks - UC-TMF 16 CUS - 0824678

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

Marker for terminal blocks - UC-TMF 16 YE CUS - 0824684

Marker for terminal blocks, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

Master cable, assembled

Master cable - RCK-TWGM/BL16+3/ 5,0PUR SH - 1519529

Socket M23, 19-pos., angled, shielded, with shielded, connected master cable, length: 5 m

Master cable - RCK-TWGM/BL16+3/10,0PUR SH - 1511828

Socket M23, 19-pos., angled, shielded, with shielded, connected master cable, length: 10 m

Female connector - RC/TGGM/KVD/LBL 16+3 - 1685505

Socket M23, 19-pos., straight, shielded, freely configurable, with solder connection, for external cable diameter 9.5 mm ... 14.5 mm

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Accessories

Female connector - RC/TWGM/KVD/LBL 16+3 - 1685518

Socket M23, 19-pos., angled, shielded, freely configurable, with solder connection, for external cable diameter 9.5 mm ... 14.5 mm

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Plug for cable screw gland

Screw plug - PROT-M12 SH - 1503302

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

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Protective cap

Protective cap - MSK 1 - 1665897

M23 metal sealing cap, for unoccupied M23 connectors, without steel wire

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Protective cap - MSK 2 - 1665907

M23 metal sealing cap, for unoccupied M23 connectors, with steel wire

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Protective cap - KSK 1 - 1685013

Plastic sealing cap, for unoccupied M23 connectors

Screwdriver tools

Sensor/actuator box - SACB-8/16-M23 SH - 1695773

Accessories

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

Tool - SAC BIT M12-D15 - 1208432

Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

Tool - SACC BIT M12-D20 - 1208445

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

Terminal marking

Marker for terminal blocks - UC-TMF 16 - 0819262

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

Marker for terminal blocks - UC-TMF 16 YE - 0819259

Marker for terminal blocks, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

Torque tool

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Accessories

Torque screwdriver - TSD 04 SAC - 1208429

Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver - TSD-M 1,2NM - 1212224

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Pipe spanner - PLUSCON-RCS - 1665062

Special pipe spanner, tool for mounting the M23 connector housing (with assembly), for coupling and sleeve housing

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