Sensor/actuator box - SACB- 8/3-L-M16-M8 HD

1166980

https://www.phoenixcontact.com/us/products/1166980

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Sensor/actuator box, application: Standard, connection method: M8 socket Metal, number of slots: 8, number of positions: 3, coding: A - standard, slot assignment: single, status display: yes, pnp; master cable connection: M16 plug connection 90°, shielding: no

Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial Data

Item number	1166980
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B08
Product Key	BF3BCB
GTIN	4063151184087
Weight per Piece (including packing)	145.7 g
Weight per Piece (excluding packing)	140 g
Customs tariff number	85444290
Country of origin	DE

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Technical Data

Notes

Assembly instruction:	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.
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 boxes with M8 to M12 slots
Number of positions	3
Application	Standard
Number of slots	8
Coding	A - standard

Material specifications

Color	black
Material of threaded sleeve	Cu alloy
Material of threaded sleeve surface	Nickel-plated
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PBT
Material of contact, master cable side	CU alloy
O-ring material	FKM
Material of the moulding mass	PUR
Housing material	PBT

Dimensions

Dimensional drawing	
Width	30 mm
Height	27 mm
Length	134.4 mm

Connection data

Pin assignment

1 / 4 (A) = P

Slot/position = Wire color or connection	2 / 4 (A) = J
	3 / 4 (A) = T
	4 / 4 (A) = S
	5 / 4 (A) = G
	6 / 4 (A) = R
	7 / 4 (A) = E
	8 / 4 (A) = O
	1-8 / 1 (+ 24 V) = A+M
	1-8 / 3 (0 V) = L+U

LED signaling

Status display present	yes

Electrical properties

Max. operating voltage U_{max}	30 V DC
Local diagnostics	Supply voltage per module Green LED
	Status display I/O Yellow LED
Nominal voltage U_N	24 V DC
Rated current, total	6 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	2 A

Cable / line

Sensor/actuator connection system	M8 socket
Connection method	M16 plug connection
Tightening torque - master cable - plug connection	1.5 Nm
Tightening torque of mounting screw for fixing the housing	0.8 Nm
Tightening torque slot sensor/actuator cable	0.2 Nm

Standards and regulations

Standards/specifications	IEC 61076-2-104

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-20 °C ... 80 °C

Drawings

Schematic diagram
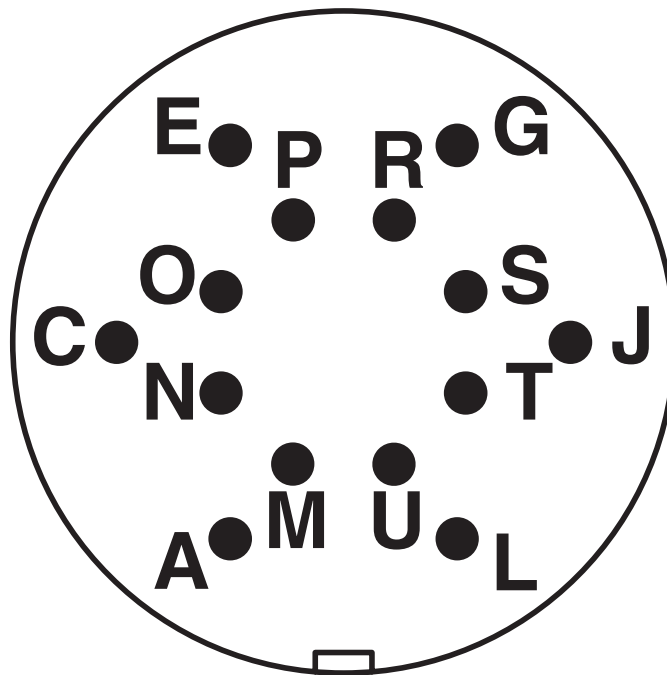
M16 plug connection pin, 14-pos.
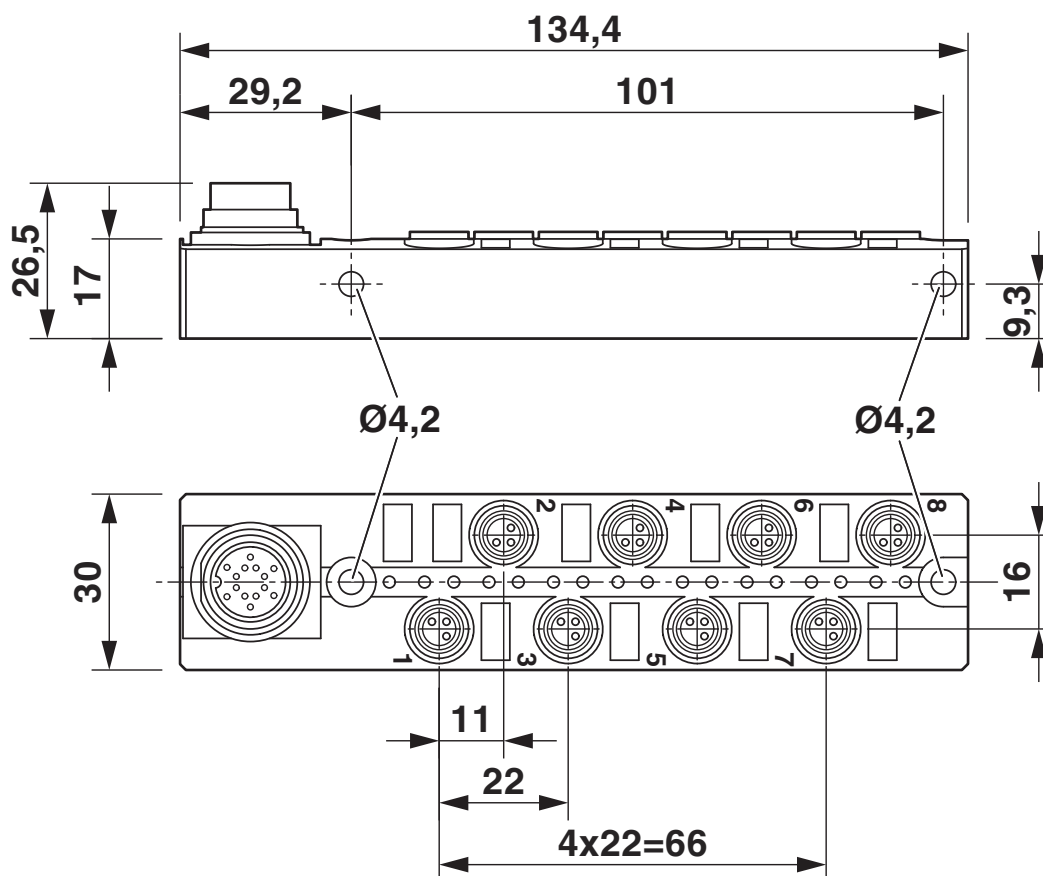
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Dimensional drawing

Circuit diagram

Schematic diagram

4

3   1
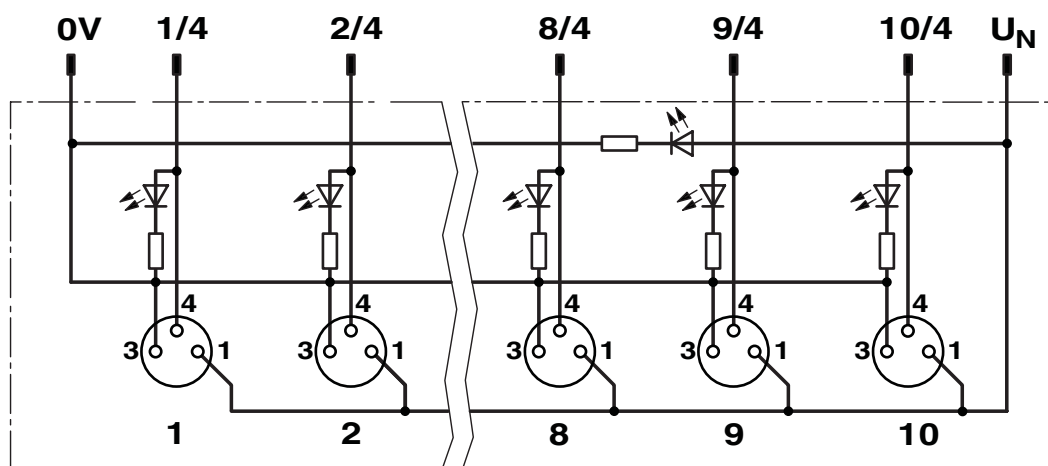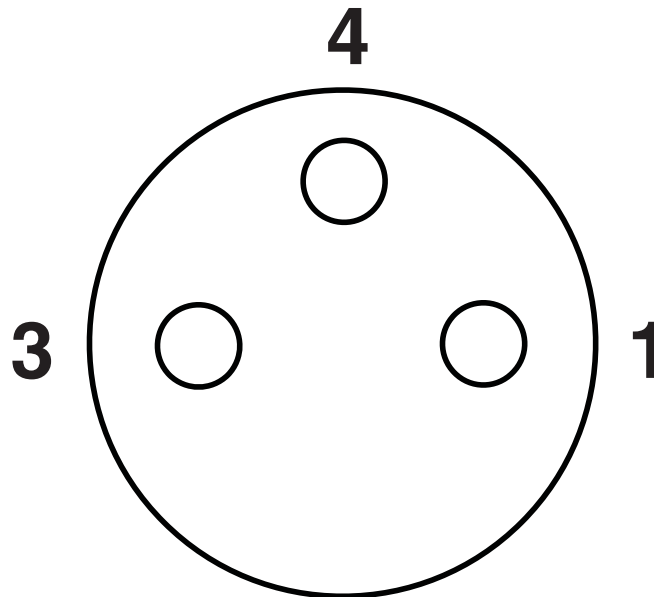
M8 slot, socket, 3-pos.

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Approvals

	cUL Recognized
	Approval ID: E238705

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cULus Recognized

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Classifications

ECLASS

ECLASS-9.0	27440108
ECLASS-11.0	27440111
ECLASS-10.0.1	27440111

ETIM

ETIM 8.0	EC003558

UNSPSC

UNSPSC 21.0	31251500

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Master cable

Master cable - SAC-12P- 5,0-PUR/M16FR - 1693720

https://www.phoenixcontact.com/us/products/1693720

Master cable, application: Sensor/actuator box, connection method: M8 socket Metal, number of slots: 8, number of positions: 12, slot assignment: single, status display: No; master cable connection: M16 plug connection, PUR/PVC, cable length: 5 m, shielding: no

Master cable

Master cable - SAC-12P-10,0-PUR/M16FR - 1693733

https://www.phoenixcontact.com/us/products/1693733

Master cable, application: Sensor/actuator box, connection method: M8 socket, number of slots: 8, number of positions: 12, slot assignment: single, status display: No; master cable connection: M16 plug connection, PUR/PVC, cable length: 10 m, shielding: no

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Connector

Connector - SACC-M16FS-14CON-M - 1500554

https://www.phoenixcontact.com/us/products/1500554

M16 socket, 14-pos., with solder connection, freely configurable, straight, for a 6. 0 mm conductor diameter ... 8.0 mm

Connector

Connector - SACC-M16FR-14CON-M - 1500253

https://www.phoenixcontact.com/us/products/1500253

M16 socket, 14-pos., with solder connection, freely configurable, angled, for a 6. 0 mm conductor diameter ... 8.0 mm

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Screw plug

Screw plug - PROT-M8 - 1682540

https://www.phoenixcontact.com/us/products/1682540

An M8 screw plug for the unoccupied M8 sockets of the sensor/actuator cable, boxes and flush-type connectors

Torque screwdriver

Torque screwdriver - TSD 02 SAC - 1208487

https://www.phoenixcontact.com/us/products/1208487

Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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Tool

Tool - SAC BIT M8-D10 - 1208461

https://www.phoenixcontact.com/us/products/1208461

Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

Tool

Tool - SACC BIT M8-D12 - 1208474

https://www.phoenixcontact.com/us/products/1208474

Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

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Marker for terminal blocks

Marker for terminal blocks - UCT1U-TM 5 - 0803204

https://www.phoenixcontact.com/us/products/0803204

UniCard materials for thermal transfer printers, for marking terminal blocks from Weidmüller, Conta Clip, and Klemsan, 72-section, offset foot, can be marked with THERMOMARK CARD and BLUEMARK, color: white

Marker for terminal blocks

Marker for terminal blocks - UCT1U-TM 5 CUS - 8191012

https://www.phoenixcontact.com/us/products/8191012

Markers for terminal blocks, for marking terminal blocks from Weidmüller, Conta Clip, and Klemsan, 72-section, offset foot, can be ordered in sheet form, marked according to customer specifications, color: white

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