

SACB- 8/3-L-M16-M8 HD - Distributor box



1166980

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

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Distributor box, application: Standard, connection method: M8 socket Metal, number of slots: 8, number of positions: 3, coding: A, 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	BF40
Product key	BF3BCB
GTIN	4063151184087
Weight per piece (including packing)	140 g
Weight per piece (excluding packing)	140 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 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 box
Application	Standard
Number of positions	3
Number of slots	8
Coding	A
LED	yes

Data management status

Article revision	02
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System properties

Local diagnostics

Monitored function	Supply voltage per module
Optical representation	Green LED

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

Connection data

Conductor connection

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

Pin assignment

1 / 4 (A) = P

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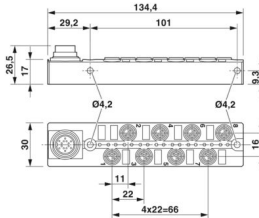
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Slot/position = Wire color or connection	2 / 4 (A) = J
	3 / 4 (A) = T
	4 / 4 (A) = S
	5 / 4 (A) = G
	6 / 4 (A) = R
	7 / 4 (A) = E
	8 / 4 (A) = O
	1-8 / 1 (+ 24 V) = A+M
	1-8 / 3 (0 V) = L+U

Signaling

Status display present	Yes
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Dimensions

Dimensional drawing	
Width	30 mm
Height	27 mm
Length	134.4 mm

Material specifications

Material Threaded sleeve	Cu alloy
Material Housing	PBT
Material Molding compound	PUR
Seal material O-ring	FKM
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PBT
Material of contact, master cable side	CU alloy

Cable/line

Connection method	M16 plug connection
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Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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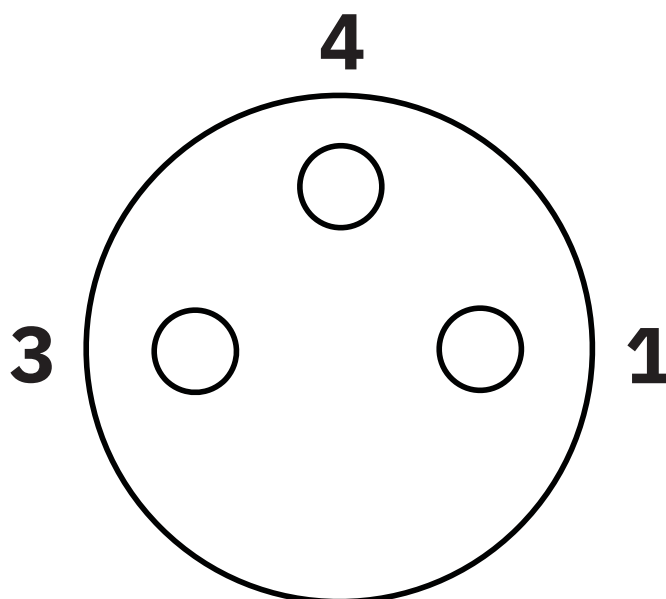
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Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

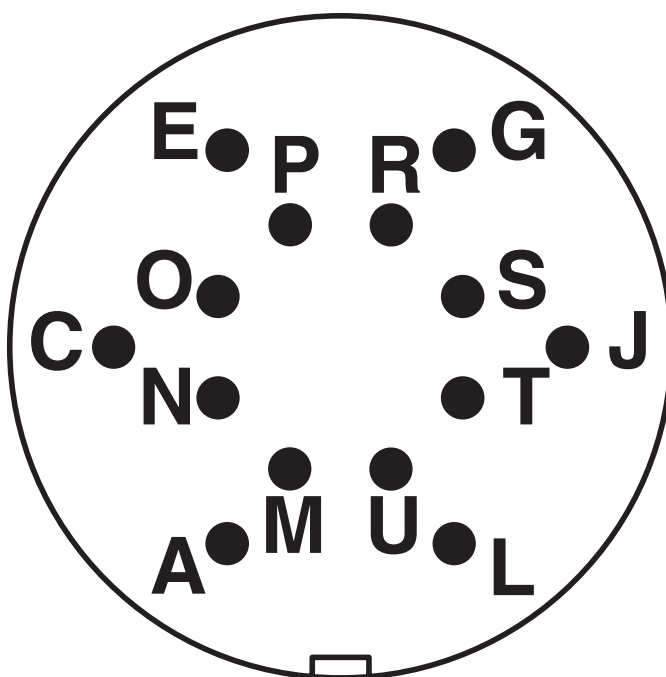
Drawings

Schematic diagram



M8 slot, socket, 3-pos.

Schematic diagram



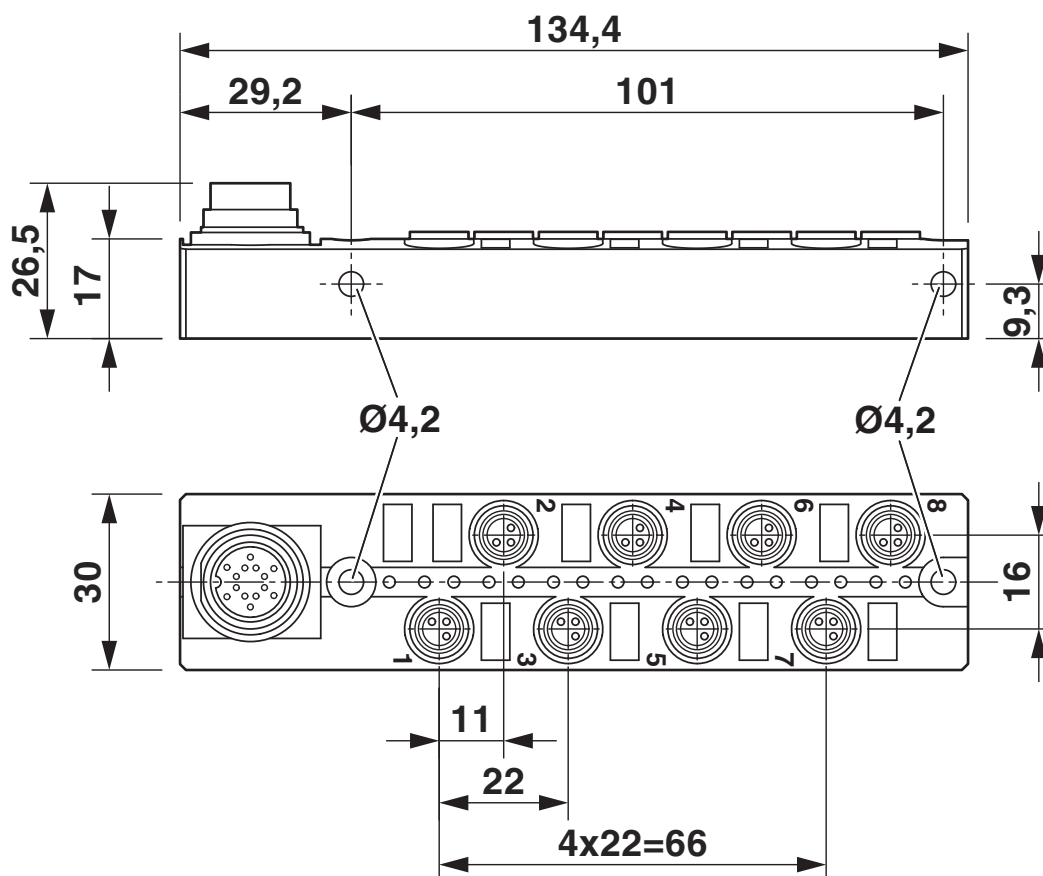
M16 plug connection pin, 14-pos.

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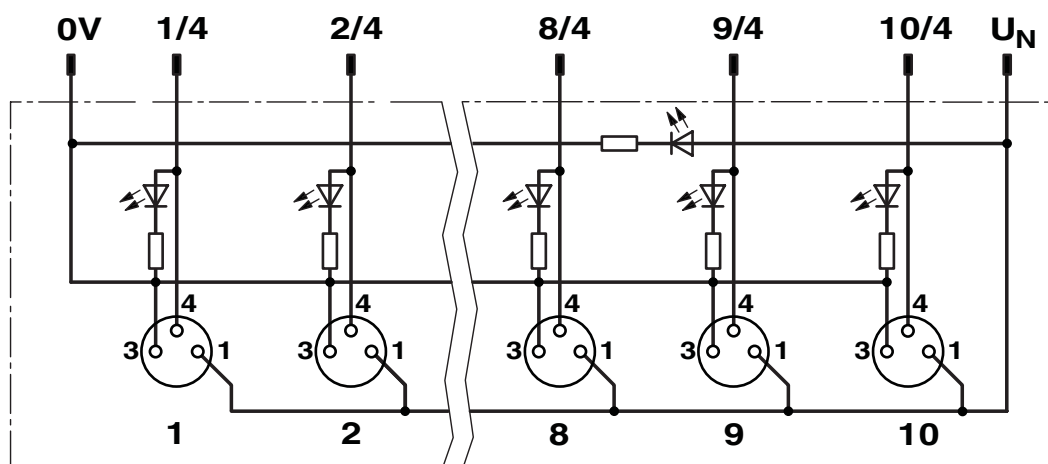
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Dimensional drawing



Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27440111
ECLASS-12.0	27440111
ECLASS-13.0	27440111

ETIM

ETIM 9.0	EC003558
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UNSPSC

UNSPSC 21.0	31251500
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	2f1b2e52-53c5-4eb9-879d-ba295faa0e22

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Accessories

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

1693720

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



Master cable, application: Sensor/actuator box, 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, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260747

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

1693733

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



Master cable, application: Sensor/actuator box, 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, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260746

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UCT-TM 6 - Marker for terminal blocks

0828736

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Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

SACC-M16FS-14CON-M - Connector

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

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SACC-M16FR-14CON-M - Connector

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



PROT-M8 - Screw plug

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



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TSD 02 SAC - Torque screwdriver

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

SAC BIT M8-D10 - Tool

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

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SACC BIT M8-D12 - Tool

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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