

1197576

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Sensor/actuator box, application: Standard, connection method: M8 socket Metal, number of slots: 10, number of positions: 3, coding: A, slot assignment: single, status display: Yes, pnp; master cable connection: M12 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	1197576
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF3BCB
GTIN	4063151257439
Weight per piece (including packing)	150.7 g
Weight per piece (excluding packing)	150.7 g
Customs tariff number	85444290
Country of origin	DE

SACB-10/3-L-M12-M8 HD - Sensor/actuator box



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Technical data

Notes

General	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.
General	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	10
Coding	A
LED	yes

Material specifications

Material	Cu alloy
	PBT
	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
Material of contact surface, master cable side	gold-plated

Dimensions

Width	30 mm
Height	23.6 mm
Length	151.5 mm

Connection data

Conductor connection

Connection method	M12 plug connection
Tightening torque slot sensor/actuator cable	0.2 Nm
Tightening torque - master cable - plug connection	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.8 Nm

Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = 3
	2 / 4 (A) = 4

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	3 / 4 (A) = 6
	4 / 4 (A) = 8
	5 / 4 (A) = 5
	6 / 4 (A) = 9
	7 / 4 (A) = 7
	8 / 4 (A) = 10
	9 / 4 (A) = 11
	10 / 4 (A) = 12
	1-10 / 1 (+24 V) = 1
	1-10 / 3 (0 V) = 2

Signaling

Status display present	Yes
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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	1 A
Max. current carrying capacity per path	1 A
Current carrying capacity per slot	1 A

Cable/line

Sensor/actuator connection system	M8 socket
Connection method	M12 plug connection
Tightening torque - master cable - plug connection	0.4 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

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

M8

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

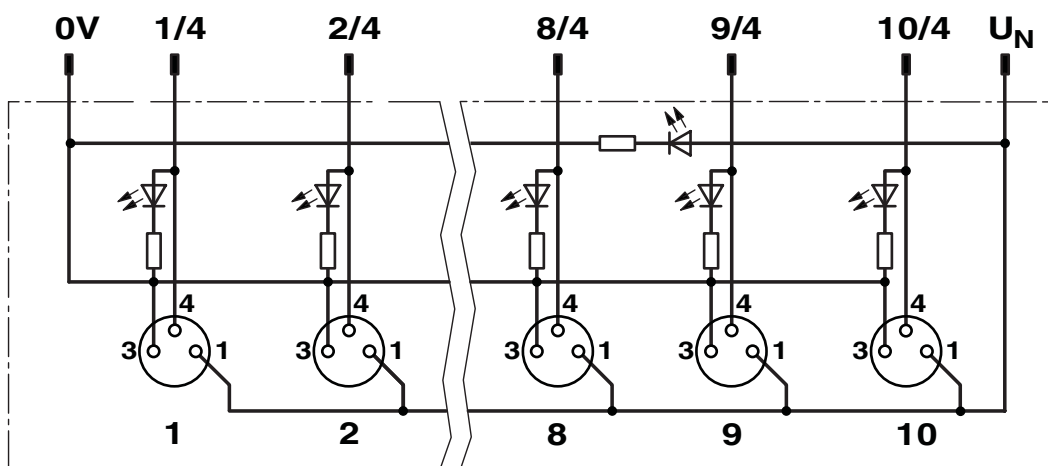
Environmental and real-life conditions

Ambient conditions

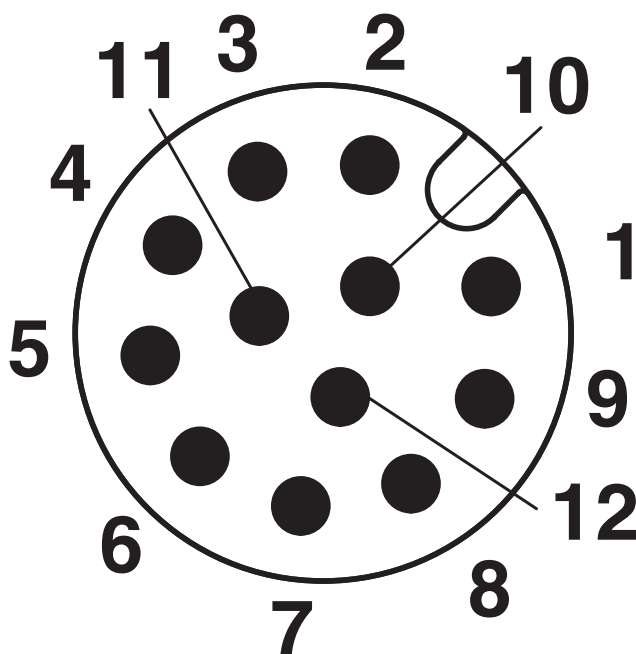
Degree of protection	IP67
Ambient temperature (operation)	-25 °C ... 80 °C

Drawings

Circuit diagram

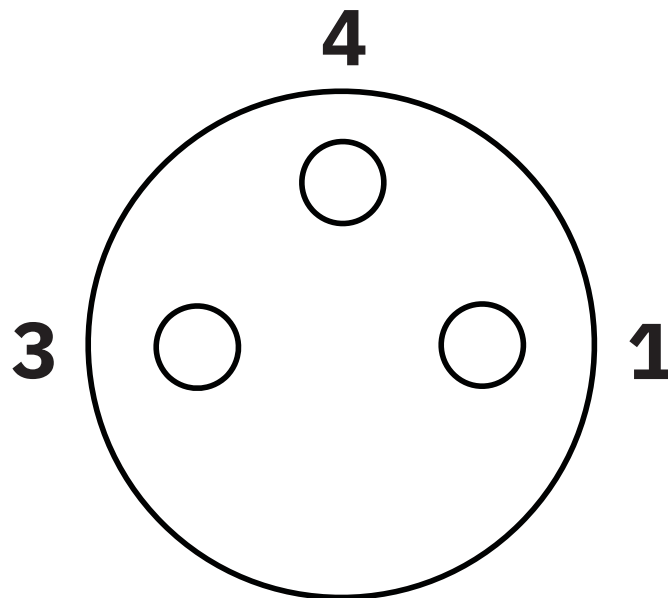


Schematic diagram



M12 plug connection pin, 12-pos.

Schematic diagram



M8 slot, socket, 3-pos.

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC003558
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UNSPSC

UNSPSC 21.0	31251500
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Environmental product compliance

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

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Accessories

SAC-12P- 5,0-PUR/FS SCO - Sensor/actuator cable

1430637

<https://www.phoenixcontact.com/pc/products/1430637>



Sensor/actuator cable, 12-position halogen-free, free cable end, on Socket straight M12, coding: A SPEEDCON, cable length: 5 m

SAC-12P-10,0-PUR/FS SCO - Sensor/actuator cable

1430640

<https://www.phoenixcontact.com/pc/products/1430640>



Sensor/actuator cable, 12-position halogen-free, free cable end, on Socket straight M12, coding: A SPEEDCON, cable length: 10 m

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SAC-12P- 5,0-PUR/FR SCO - Sensor/actuator cable

1430679

<https://www.phoenixcontact.com/pc/products/1430679>



Sensor/actuator cable, 12-position halogen-free, free cable end, on Socket angled M12, coding: A SPEEDCON, cable length: 5 m

SAC-12P-10,0-PUR/FR SCO - Sensor/actuator cable

1430682

<https://www.phoenixcontact.com/pc/products/1430682>



Sensor/actuator cable, 12-position halogen-free, free cable end, on Socket angled M12, coding: A SPEEDCON, cable length: 10 m

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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

TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/pc/products/1208429>



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

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TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/pc/products/1212224>



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

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/pc/products/1212600>



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

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SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/pc/products/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

PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/pc/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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PROT-M8 - Screw plug

1682540

<https://www.phoenixcontact.com/pc/products/1682540>



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

TSD 02 SAC - Torque screwdriver

1208487

<https://www.phoenixcontact.com/pc/products/1208487>



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

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SAC BIT M8-D10 - Tool

1208461

<https://www.phoenixcontact.com/pc/products/1208461>



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

SACC BIT M8-D12 - Tool

1208474

<https://www.phoenixcontact.com/pc/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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TSD 04 SAC - Torque screwdriver

1208429

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

TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/pc/products/1212224>



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

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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/pc/products/1212600>



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

SAC BIT M12-D15 - Tool

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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

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TSD 02 SAC - Torque screwdriver

1208487

<https://www.phoenixcontact.com/pc/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/pc/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

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

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