

SACB-8/16-L-SC - Distributor box



1680584

<https://www.phoenixcontact.com/us/products/1680584>

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Distributor box, connection method: M12 socket Plastic, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: Yes, PNP; master cable connection: Spring-cage connection 180°, shielding: no

Your advantages

- Safety in the field, thanks to robust housing and high degree of protection
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Save space: distributor box with double occupancy for two sensors in one slot
- Flexible: distributor box with connector hood for on-site assembly

Commercial data

Item number	1680584
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	BF3CBC
Catalog page	Page 115 (PC-2009)
GTIN	4017918169763
Weight per piece (including packing)	149.7 g
Weight per piece (excluding packing)	148.2 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Product type	Distributor box
Number of positions	5
Number of slots	8
Coding	A
LED	yes

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	12 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

Connection data

Conductor connection

Sensor/actuator connection system	M12 socket
Conductor cross section Flexible signal line	0.14 mm ² ... 1 mm ²
Conductor cross section Flexible power supply	0.2 mm ² ... 1.5 mm ²
Connection cross section AWG Flexible signal line	26 ... 17
Connection cross section AWG Flexible power supply	24 ... 16
Stripping length Signal line	10 mm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque, union nut	2.5 Nm

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

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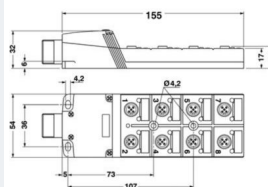
5 / 4 (A) = 5 / 4
5 / 2 (B) = 5 / 2
6 / 4 (A) = 6 / 4
6 / 2 (B) = 6 / 2
7 / 4 (A) = 7 / 4
7 / 2 (B) = 7 / 2
8 / 4 (A) = 8 / 4
8 / 2 (B) = 8 / 2
1-8 / 1 (+ 24 V) = U _N
1-8 / 3 (0 V) = 0 V
1-8 / 5 (PE) = PE

Signaling

Status display present	Yes
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Dimensions

Dimensional drawing



Width	54 mm
Height	32 mm
Length	155 mm

Material specifications

Material Threaded sleeve	PA
Material Housing	PA
Flammability rating according to UL 94	V0
Seal material O-ring	NBR
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA
Material of contact, master cable side	CuZn
Material of the contact carrier on the master cable side	PA 6.6 V0
Material of contact surface, master cable side	NiSn

Cable/line

External cable diameter	6.5 mm ... 9.5 mm
Connection method	Spring-cage connection

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 75 °C

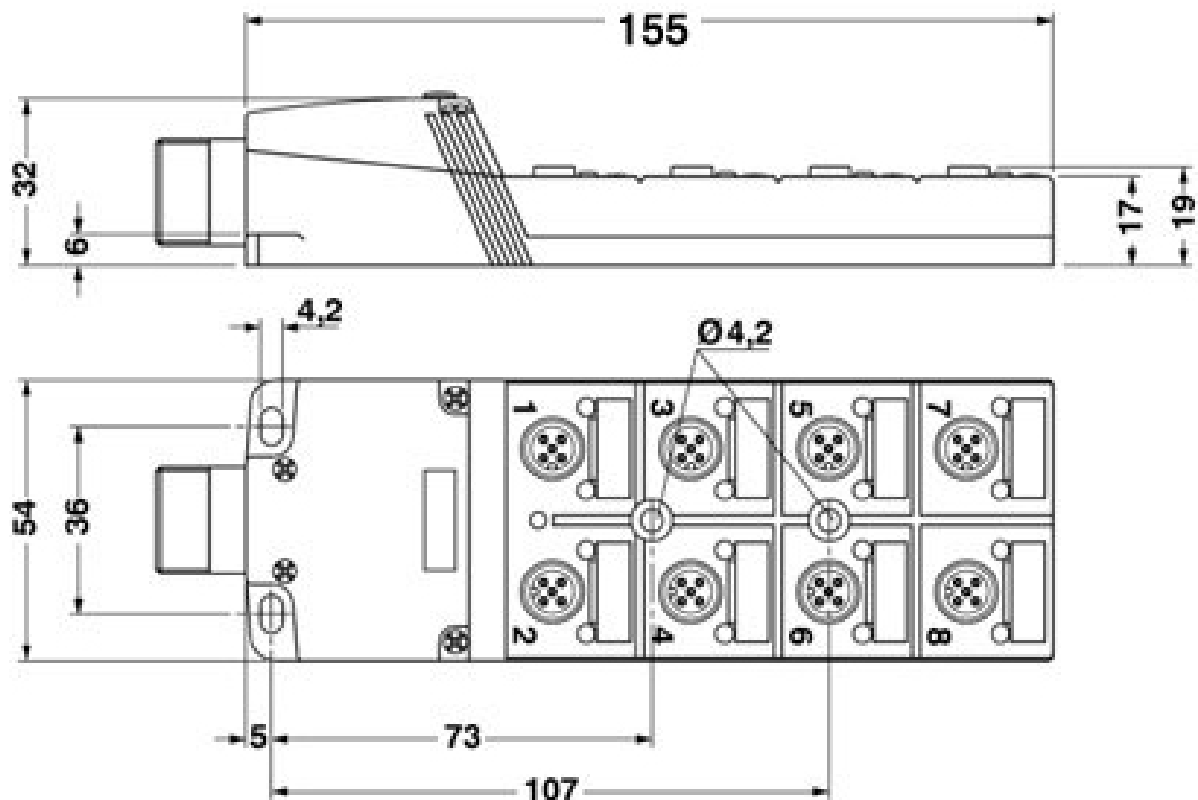
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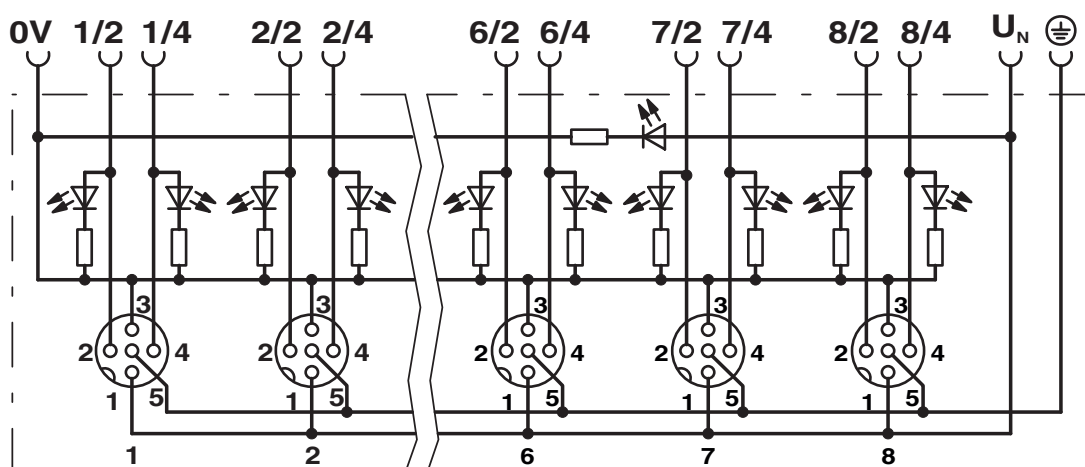
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Drawings

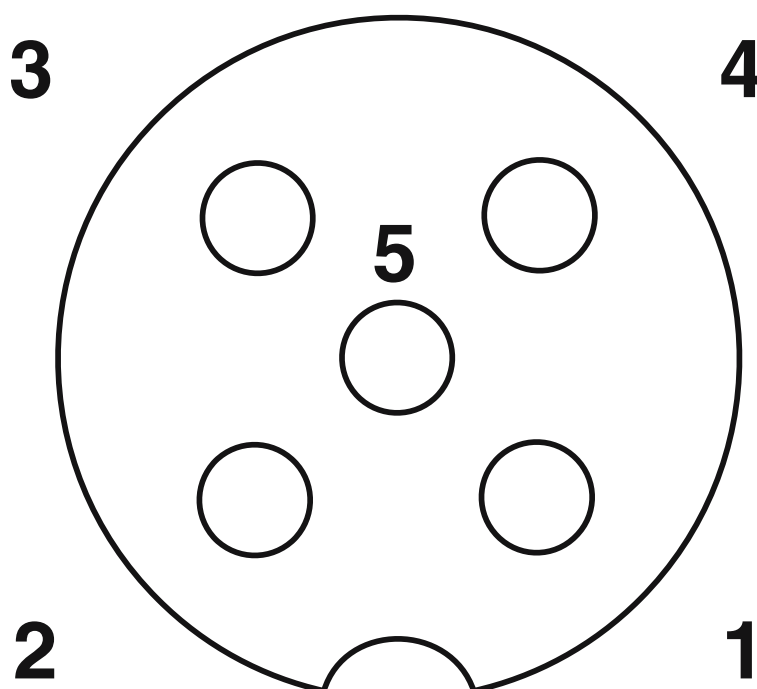
Dimensional drawing



Circuit diagram



Schematic diagram



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Classifications

ECLASS

ECLASS-11.0	27440111
ECLASS-13.0	27440111

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Accessories

SACB-D PG 13,5 (4,0-6,5) YE - Seal

1680377

<https://www.phoenixcontact.com/us/products/1680377>



Rubber seal for Pg13.5 screw connection, for 4.0 mm ... 6.5 mm cable diameter

SACB-D PG 13,5 (6,5-9,5) BK - Seal

1680380

<https://www.phoenixcontact.com/us/products/1680380>



Rubber seal for Pg13.5 screw connection, for 6.5 mm ... 9.5 mm cable diameter

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SACB-D PG 13,5 (9,0-13,0) RD - Seal

1680393

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Rubber seal for Pg13.5 screw connection, for 9.0 mm ... 13.0 mm cable diameter

PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/us/products/1680539>



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

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ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

<https://www.phoenixcontact.com/us/products/2809128>



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

SACB-16X0,5/ 3X1,0-50,0 PUR - Master cable ring

1503373

<https://www.phoenixcontact.com/us/products/1503373>



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm² and 3 x 1.00 mm², length: 50 m

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SACB-16X0,5/ 3X1,0-200,0 PUR - Master cable ring

1559893

<https://www.phoenixcontact.com/us/products/1559893>



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm² and 3 x 1.00 mm², length: 200 m on drum

SACB-16X0,5/ 3X1,0-50,0 VPUR - Master cable ring

1430938

<https://www.phoenixcontact.com/us/products/1430938>



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm² and 3 x 1.00 mm², length: 50 m

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TSD 04 SAC - Torque screwdriver

1208429

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



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

SAC BIT M12-D15 - Tool

1208432

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

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SACC BIT M12-D20 - Tool

1208445

<https://www.phoenixcontact.com/us/products/1208445>

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



SZK PZ1 VDE - Screwdriver

1206450

<https://www.phoenixcontact.com/us/products/1206450>

Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip



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