

# Sensor/actuator box header - SACB-4/ 8-L-C GG SCO

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1452877

<https://www.phoenixcontact.com/de/produkte/1452877>

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Sensor/actuator box header, application: Standard, connection method: M12-SPEEDCON-socket Plastic, number of slots: 4, number of positions: 5, coding: A - standard, slot assignment: Double, status display: yes, pnp; master cable connection: Pluggable screw connection, shielding: no

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# Sensor/actuator box header - SACB-4/ 8-L-C GG SCO

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## Commercial Data

Item number	1452877
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C1 - Sensor-Aktor-Kabel
Product Key	BF3CBD
Catalog Page	Page 263 (C-2-2019)
GTIN	4046356553735
Weight per Piece (including packing)	122,6 g
Weight per Piece (excluding packing)	122,3 g
Customs tariff number	85366990
Country of origin	DE

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## Technical Data

### Notes

Assembly instruction:	<b>NOTE:</b> 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	Header with metric measurement slots
Number of positions	5
Application	Standard
Number of slots	4
Coding	A - standard

### Electrical properties

Max. operating voltage $U_{max}$	30 V DC
Local diagnostics	Supply voltage Green LED
	Status display I/O Yellow LED
Nominal voltage $U_N$	24 V DC
Rated current, total	10 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

### System properties

Local diagnostics	
Monitored function	Supply voltage
Optical representation	Green LED

### LED signaling

Status display present	yes
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### Dimensions

Dimensional drawing	<p>The drawing shows two views of the header. The side view (top) shows a total length of 117 mm, a mounting height of 42.6 mm, a base thickness of 5 mm, and a distance of 15.6 mm from the base to the start of the slots. The top view (bottom) shows a total width of 54 mm, a distance of 36 mm from the left edge to the first slot, a slot width of 4.5 mm, a distance of 73 mm between the first and last slots, and a total distance of 107 mm from the left edge to the right edge of the last slot. A hole diameter of 04.5 mm is also indicated.</p>
Width	54 mm

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Height	19 mm
Length	117 mm

## Material specifications

Color	anthracite
Flammability rating according to UL 94	V0
Sealing material	NBR (Connector hood)
Material of threaded sleeve	PBT
Contact material	Cu alloy
Contact surface material	gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	PA
Material of contact surface, master cable side	Sn
O-ring material	NBR
Material of the moulding mass	PUR
Housing material	PBT

## Cable / line

### Master cable data/connection data

Sensor/actuator connection system	M12-SPEEDCON-socket
Connection method	Pluggable screw connection
Tightening torque of mounting screw for fixing the housing	0.5 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 80 °C

## Standards and regulations

Standards/specifications	IEC 61076-2-101
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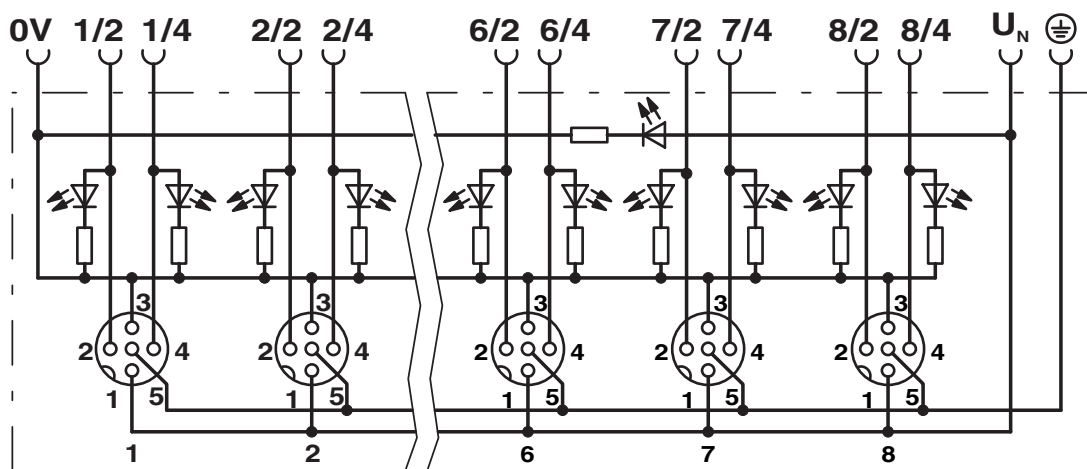
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Drawings

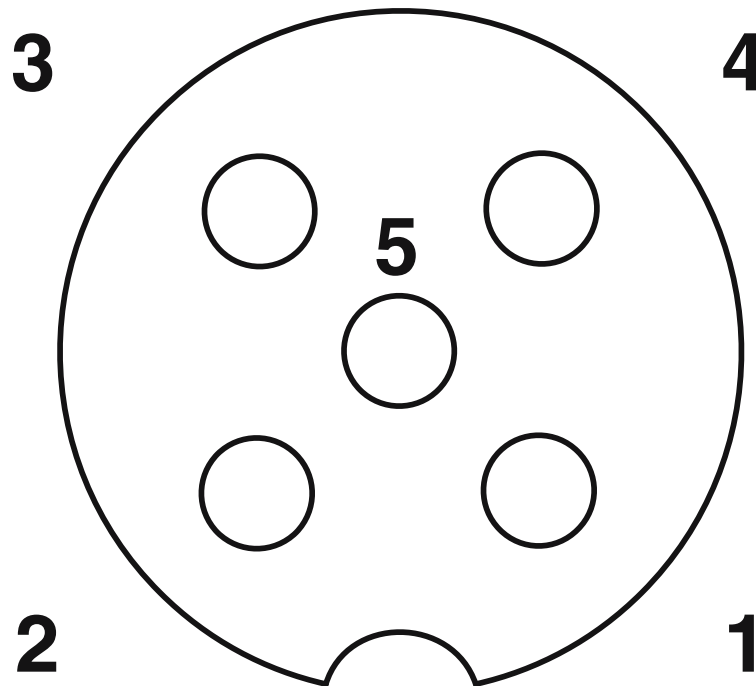
Circuit diagram



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Schematic diagram



M12 slot, socket, 5-pos.

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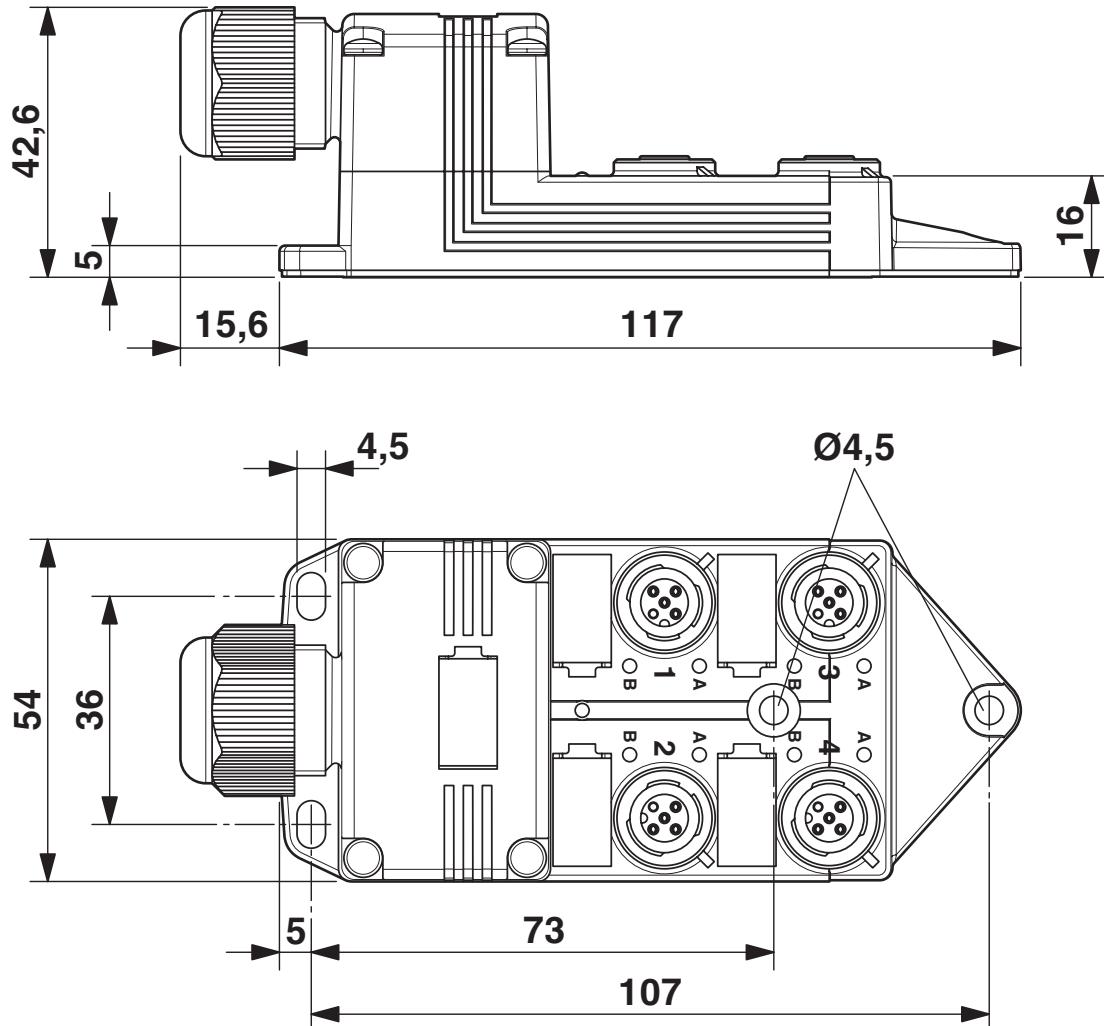
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Dimensional drawing



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## Approvals

 <b>cUL Recognized</b> Approval ID: FILE E 118976				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
	24 V		-	-

 <b>UL Recognized</b> Approval ID: FILE E 118976				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
	24 V		-	-

**cULus Recognized**



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### Classifications

#### ECLASS

ECLASS-9.0	27440108
ECLASS-10.0.1	27440111
ECLASS-11.0	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

### Connector hood

Connector hood - SACB-C-H180-4/ 8- 5,0PUR SCO P - 1453083

<https://www.phoenixcontact.com/de/produkte/1453083>



Connector hood, application: Sensor/actuator box, connection method: M12-SPEEDCON-socket Plastic, number of slots: 4, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 5 m, shielding: no

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### Screw plug

Screw plug - PROT-MS SCO - 1553129

<https://www.phoenixcontact.com/de/produkte/1553129>



M12 screw plug with fast-locking system for unoccupied M12 female connectors of sensor/actuator cables, boxes, and flush-type connectors

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## Connector hood

Connector hood - SACB-C-H180-4/ 8-10,0PUR SCO P - 1453096

<https://www.phoenixcontact.com/de/produkte/1453096>



Connector hood, application: Sensor/actuator box, connection method: M12-SPEEDCON-socket Plastic, number of slots: 4, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 10 m, shielding: no

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## Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429

<https://www.phoenixcontact.com/de/produkte/1208429>



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

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## Connector hood

Connector hood - SACB-C-H180-4/ 8 SCO P PUR/ - 1401393

<https://www.phoenixcontact.com/de/produkte/1401393>



Connector hood, application: Sensor/actuator box, connection method: M12-SPEEDCON-socket Plastic, number of slots: 4, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 0.5 m ... 50 m, shielding: no

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## Torque screwdriver

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

<https://www.phoenixcontact.com/de/produkte/1212224>



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

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## Connector hood

Connector hood - SACB-C-H180-8/16 SCO P - 1453229

<https://www.phoenixcontact.com/de/produkte/1453229>



Connector hood with integrated connector, for M12 sensor/actuator boxes with SPEEDCON plastic thread and plug-in screw connection, for 4, 6 or 8 slots

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## Adapter insert

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

<https://www.phoenixcontact.com/de/produkte/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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## Tool

Tool - SAC BIT M12-D15 - 1208432

<https://www.phoenixcontact.com/de/produkte/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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## Tool

Tool - SACC BIT M12-D20 - 1208445

<https://www.phoenixcontact.com/de/produkte/1208445>



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

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<https://www.phoenixcontact.com/de/produkte/1452877>

### Snap-in markers

Snap-in markers - UC-EM (17,5X9) - 0827490

<https://www.phoenixcontact.com/de/produkte/0827490>



Snap-in markers, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID, BLUEMARK ID COLOR, BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

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### Snap-in markers

Snap-in markers - UC-EM (17,5X9) CUS - 0828238

<https://www.phoenixcontact.com/de/produkte/0828238>



Snap-in markers, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20



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<https://www.phoenixcontact.com/de/produkte/1452877>

## Snap-in markers

Snap-in markers - UCT-EM (17,5X9) - 0801491

<https://www.phoenixcontact.com/de/produkte/0801491>



Snap-in markers, 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, lettering field size: 17.5 x 9 mm, Number of individual labels: 24

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## Snap-in markers

Snap-in markers - UCT-EM (17,5X9) CUS - 0801575

<https://www.phoenixcontact.com/de/produkte/0801575>



UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications

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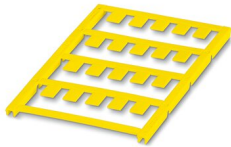
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## Snap-in markers

Snap-in markers - UC-EM (17,5X9) YE - 0827494

<https://www.phoenixcontact.com/de/produkte/0827494>



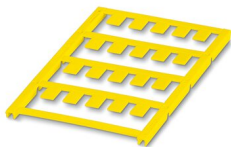
Snap-in markers, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

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## Snap-in markers

Snap-in markers - UC-EM (17,5X9) YE CUS - 0828239

<https://www.phoenixcontact.com/de/produkte/0828239>



Snap-in markers, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

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<https://www.phoenixcontact.com/de/produkte/1452877>

## Snap-in markers

Snap-in markers - UCT-EM (17,5X9) YE - 0801492

<https://www.phoenixcontact.com/de/produkte/0801492>



Snap-in markers, Sheet, yellow, 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, lettering field size: 17.5 x 9 mm, Number of individual labels: 24

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## Snap-in markers

Snap-in markers - UCT-EM (17,5X9) YE CUS - 0801576

<https://www.phoenixcontact.com/de/produkte/0801576>



UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications

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## Philips screwdriver

Philips screwdriver - SZK PZ2 VDE - 1206463

<https://www.phoenixcontact.com/de/produkte/1206463>



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

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## Torque screwdriver

Torque screwdriver - TSD 25 SAC - 1212315

<https://www.phoenixcontact.com/de/produkte/1212315>



Torque screwdriver, with preset torque of 2.5 Nm and 4 mm hexagonal drive for the pressure nut of the connector hood

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<https://www.phoenixcontact.com/de/produkte/1452877>

## Torque screwdriver

Torque screwdriver - TSD-M 3NM - 1212225

<https://www.phoenixcontact.com/de/produkte/1212225>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm

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## Tool

Tool - SAC BIT HOOD-W 24 - 1212486

<https://www.phoenixcontact.com/de/produkte/1212486>



Nut for assembling pressure nuts with 24 mm wrench size, for 4 mm hexagonal drive

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## Screw insert

Screw insert - SF-BIT-PZ 2-50 - 1212592

<https://www.phoenixcontact.com/de/produkte/1212592>



Screw bit, PZ crosshead, E6.3-1/4" drive, size: PZ 2 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

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## DIN rail adapter

DIN rail adapter - UTA 107 - 2853983

<https://www.phoenixcontact.com/de/produkte/2853983>

Universal DIN rail adapter, for screwing on switchgear



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