

# Sensor/actuator box - SACB-6/ 6-L-C SCO - 1516807

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Sensor/actuator box, Application: Standard, Connection method: M12-SPEEDCON-socket Metal, Number of slots: 6, Number of positions: 4, Coding: A - standard, Slot assignment: single, Status indication: Yes, pnp; Master cable connection: Pluggable screw connection 180°, Shielding: No

## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Flexible, distributed bundling of signals in one master cable
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly



## Key commercial data

package_quantity	1
GTIN	4017918967536

## Technical data

### General

Rated voltage	24 V DC
Max. operating voltage $U_{max}$	30 V DC
Current carrying capacity per I/O signal	2 A
Current carrying capacity per slot	4 A
Total rated current	10 A
Total rated current	2x 8 A (For electrical isolation)
Number of positions	4
Number of slots	6
Flammability rating according to UL 94	V0
Sensor/actuator connection system	M12-SPEEDCON-socket

### Ambient conditions

Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP69K
Ambient temperature (operation)	-30 °C ... 80 °C

### Local diagnostics function

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## Technical data

### Local diagnostics function

Local diagnostics	Supply voltage per module Green LED
Local diagnostics	Status display I/O Yellow LED

### Master cable data/connection data

Connection method	Pluggable screw connection
Conductor cross section min. (signal)	0.14 mm <sup>2</sup>
Conductor cross section max. (signal)	1.5 mm <sup>2</sup>
Conductor cross section AWG min. (signal)	26
Conductor cross section AWG max. (signal)	16
Stripping length (signal)	7 mm
Conductor cross section min. (energy)	0.14 mm <sup>2</sup>
Conductor cross section max. (energy)	1.5 mm <sup>2</sup>
Conductor cross section AWG min. (energy)	26
Conductor cross section AWG max. (energy)	16
External cable diameter min.	7 mm
External cable diameter max.	12 mm
Stripping length	50 mm (Master cable)
Tightening torque, cover screw	0.35 Nm
Tightening torque, union nut	2.5 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm

### Insulation material

Housing material	PBT
Material of the moulding mass	PUR
Contact material	Cu alloy
Contact surface material	Gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of contact surface, master cable side	Gold-plated
Material of the contact carrier on the master cable side	PA 66 V0
Material of threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	Nickel-plated
O-ring material	NBR

### Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = 1 / 4
Slot/position = Wire color or connection	2 / 4 (A) = 2 / 4
Slot/position = Wire color or connection	3 / 4 (A) = 3 / 4
Slot/position = Wire color or connection	4 / 4 (A) = 4 / 4
Slot/position = Wire color or connection	5 / 4 (A) = 5 / 4
Slot/position = Wire color or connection	6 / 4 (A) = 6 / 4
Slot/position = Wire color or connection	1-6 / 1 (+ 24 V) = U <sub>N</sub>

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## Technical data

### Pin assignment

Slot/position = Wire color or connection	1-6 / 3 (0 V) = 0 V
Slot/position = Wire color or connection	1-6 / 5 (PE) = PE

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

## Classifications

### eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27279219
eCl@ss 9.0	27440108

### ETIM

ETIM 2.0	EC000200
ETIM 3.0	EC001856
ETIM 4.0	EC002585
ETIM 5.0	EC002585

### UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

## Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized /

### Approval details

EAC s
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UL Recognized s
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## Sensor/actuator box - SACB-6/ 6-L-C SCO - 1516807

### Approvals

Nominal voltage UN	24 V
Nominal current IN	3 A
mm <sup>2</sup> /AWG/kcmil	

<b>cUL Recognized s</b>	
Nominal voltage UN	24 V
Nominal current IN	3 A
mm <sup>2</sup> /AWG/kcmil	



### Accessories

#### Connector hood without master cable

SACB-C-H180 8/16 SCO - 1516713



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#### Cable by the meter

SACB- 6X0,34/ 3X0,75-50,0 PUR - 1503331



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#### Protective cap

PROT-MS SCO - 1553129



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### Accessories

#### Device marking

SS-ZB 17,5 WH - 0804963



SS-ZB 17,5 YE - 0804976



#### Labeled device marker

SS-ZB 17,5 WH CUS - 0824468



SS-ZB 17,5 YE CUS - 0824469



#### Torque tool

TSD 04 SAC - 1208429



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### Accessories

TSD-M 1,2NM - 1212224



TSD 25 SAC - 1212315



TSD-M 3NM - 1212225



### Screwdriver tools

TSD-M SAC-BIT ADAPTER - 1212600



SAC BIT M12-D15 - 1208432



## Sensor/actuator box - SACB-6/ 6-L-C SCO - 1516807

### Accessories

SACC BIT M12-D20 - 1208445



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SZK PZ1 VDE - 1206450



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SAC BIT HOOD-W 24 - 1212486



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SF-BIT-PZ 1-50 - 1212591



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### Mounting rail adapter

UTA 107 - 2853983

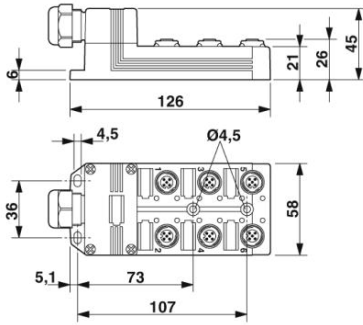


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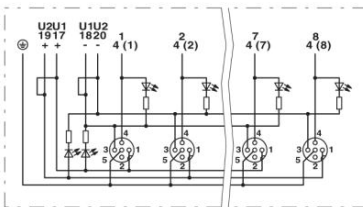
### Drawings

# Sensor/actuator box - SACB-6/ 6-L-C SCO - 1516807

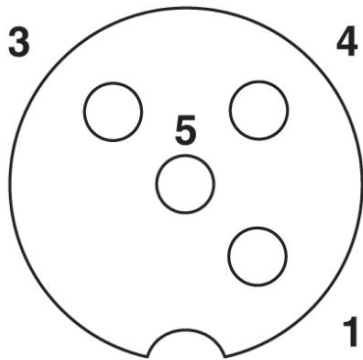
## Dimensional drawing



## Circuit diagram



## Schematic diagram

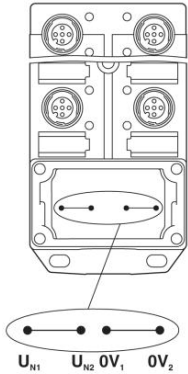


M12 slot, socket, 4-pos.



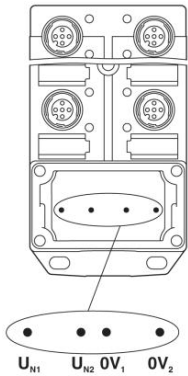
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### Schematic diagram



Potential UN1 and UN2 bridged. Potential assignment: UN1 = UN2 = slots 1,2,3,4,5,6.

### Schematic diagram



Electrically isolated. Potential assignment: UN1 = slots 1,3,5 and UN2 = slots 2,4,6.

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