

# Sensor/actuator box - SACB- 6/3-L-C-M8 - 1503425

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Sensor/actuator box, Application: Standard, Connection method: M8 socket Metal, Number of slots: 6, Number of positions: 3, 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
- Flexible: distributor box with connector hood for on-site assembly

## Key commercial data

<b>package_quantity</b>	1
<b>GTIN</b>	4017918976415

## Technical data

### General

<b>Rated voltage</b>	24 V DC
<b>Max. operating voltage <math>U_{max}</math></b>	30 V DC
<b>Current carrying capacity per I/O signal</b>	2 A
<b>Current carrying capacity per slot</b>	2 A
<b>Total rated current</b>	8 A
<b>Number of positions</b>	3
<b>Number of slots</b>	6
<b>Flammability rating according to UL 94</b>	V0
<b>Sensor/actuator connection system</b>	M8 socket

### Ambient conditions

<b>Degree of protection</b>	IP65
<b>Degree of protection</b>	IP67
<b>Ambient temperature (operation)</b>	-30 °C ... 80 °C

### Local diagnostics function

<b>Local diagnostics</b>	Supply voltage Green LED
<b>Local diagnostics</b>	Status display I/O Yellow LED

### Master cable data/connection data

<b>Connection method</b>	Pluggable screw connection
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### Technical data

#### Master cable data/connection data

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	60 mm (Master cable)
Tightening torque, cover screw	1 Nm
Tightening torque, union nut	2.5 Nm
Tightening torque slot sensor/actuator cable	0.2 Nm

#### Insulation material

Housing material	PBT
Material of the moulding mass	PUR
Contact material	CuSn
Contact surface material	Ni/Au
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	Cu alloy
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>
Slot/position = Wire color or connection	1-6 / 3 (0 V) = 0 V

#### Standards and Regulations

Standard designation	M8 connector
Standards/regulations	IEC 61076-2-104
Connection in acc. with standard	CUL

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## Technical data

### Standards and Regulations

Flammability rating according to UL 94	V0
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## 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

UL Recognized / cUL Recognized / EAC / cULus Recognized /

### Approval details

UL Recognized s 	
Nominal voltage UN	24 V
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	

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## Approvals

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

<b>EAC</b>
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<b>cULus Recognized</b>
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## Accessories

### Connector hood without master cable

SACB-C-H180- 6/3-M8 - 1521216



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### Cable by the meter

SACB- 6X0,34/2X0,75-50 PUR - 1517589



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### Terminal marking

ZBF10:UNBEDRUCKT - 0809997



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### Accessories

#### Labeled terminal marker

ZBF10 CUS - 0825031



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#### Protective cap

PROT-M8 - 1682540



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#### Torque tool

TSD 02 SAC - 1208487



TSD-M 1,2NM - 1212224



TSD 25 SAC - 1212315



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### Accessories

TSD-M 3NM - 1212225



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### Screwdriver tools

SAC BIT M8-D10 - 1208461



SACC BIT M8-D12 - 1208474



SZK PZ2 VDE - 1206463



SAC BIT HOOD-W 24 - 1212486



# Sensor/actuator box - SACB- 6/3-L-C-M8 - 1503425

## Accessories

TSD-M SAC-BIT ADAPTER - 1212600

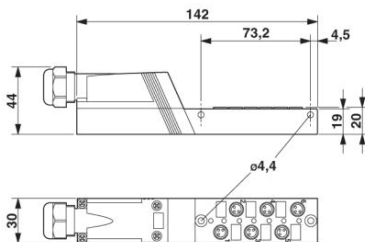


SF-BIT-PZ 2-50 - 1212592

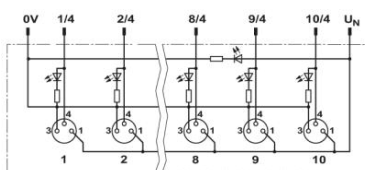


## Drawings

### Dimensional drawing

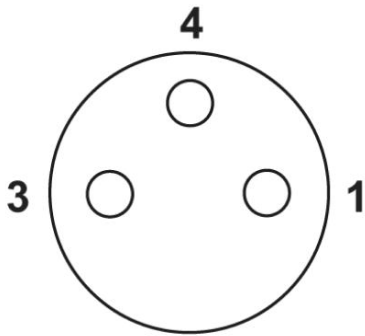


### Circuit diagram



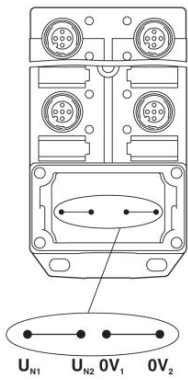
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Schematic diagram



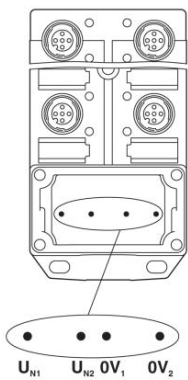
M8 slot, socket, 3-pos.

Schematic diagram



Potential UN1 and UN2 bridged

Schematic diagram



Electrically isolated

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