

## Sensor/actuator box - SACB-4/ 4-L-M23 - 1692404

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Sensor/actuator box, application: Standard, connection method: M12 socket Plastic, number of slots: 4, number of positions: 4, coding: A - standard, slot assignment: single, status display: yes, pnp; master cable connection: M23 plug connection 90°, 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

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 017918 177867 |
| GTIN         | 4017918177867                                                                                           |
| Sales Key    | 02                                                                                                      |

### 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                      | 12 A                                                                                                                                                                                                                                          |
| Number of positions                      | 4                                                                                                                                                                                                                                             |
| Number of slots                          | 4                                                                                                                                                                                                                                             |
| Flammability rating according to UL 94   | V0                                                                                                                                                                                                                                            |
| Sensor/actuator connection system        | M12 socket                                                                                                                                                                                                                                    |
| Note                                     | 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. |

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## Technical data

### General

|  |                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------|
|  | Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories". |
|--|--------------------------------------------------------------------------------------------------------------------------|

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP65             |
|                                 | IP67             |
| Ambient temperature (operation) | -20 °C ... 75 °C |

### Local diagnostics function

|                   |                               |
|-------------------|-------------------------------|
| Local diagnostics | Supply voltage Green LED      |
|                   | Status display I/O Yellow LED |

### Master cable data/connection data

|                                              |                     |
|----------------------------------------------|---------------------|
| Connection method                            | M23 plug connection |
| Tightening torque slot sensor/actuator cable | 0.4 Nm              |

### Insulation material

|                                                |             |
|------------------------------------------------|-------------|
| Housing material                               | PA          |
| 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 threaded sleeve                    | PA          |
| O-ring material                                | NBR         |

### Pin assignment

|                                          |                       |
|------------------------------------------|-----------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 1         |
|                                          | 2 / 4 (A) = 2         |
|                                          | 3 / 4 (A) = 3         |
|                                          | 4 / 4 (A) = 4         |
|                                          | 1-4 / 1 (+ 24 V) = 11 |
|                                          | 1-4 / 3 (0 V) = 9+10  |
|                                          | 1-4 / 5 (PE) = 12     |

### Standards and Regulations

|                                        |     |
|----------------------------------------|-----|
| Connection in acc. with standard       | CUL |
| Flammability rating according to UL 94 | V0  |

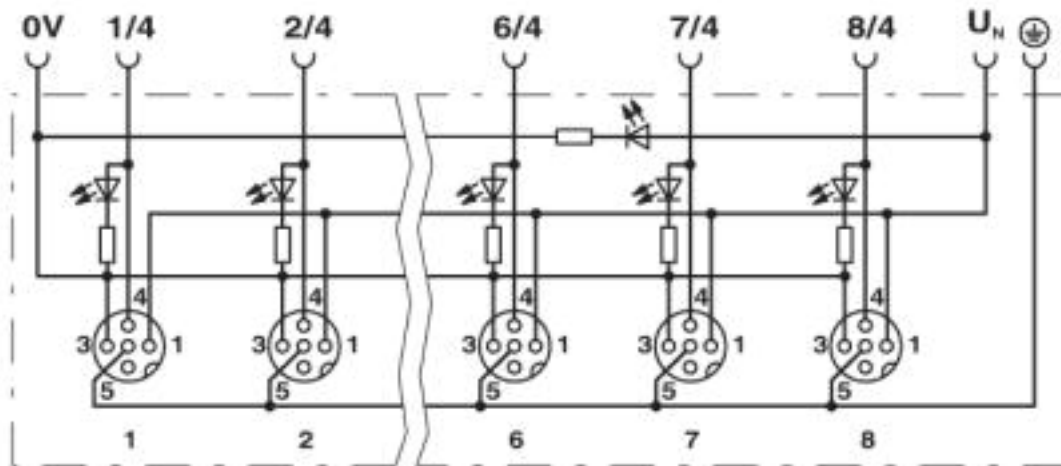
### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                          |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

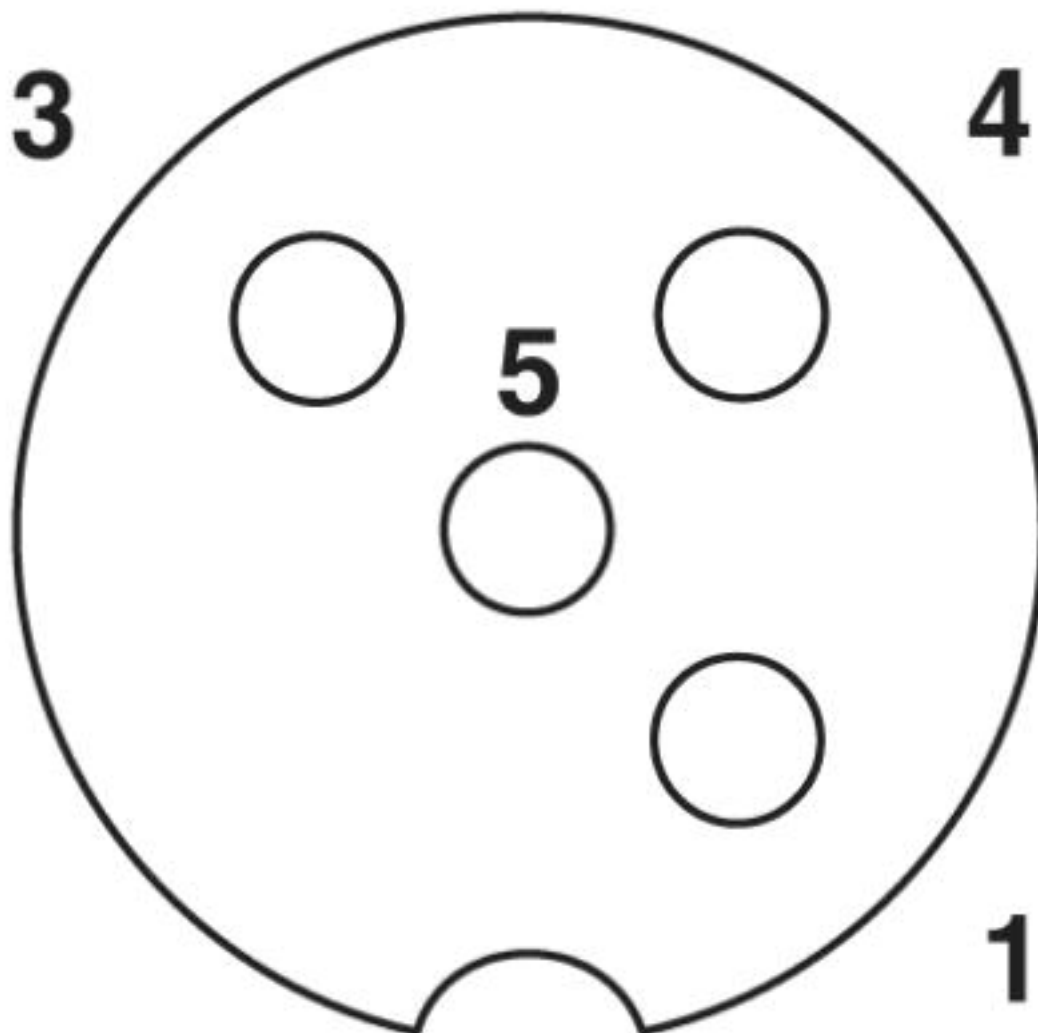
## Sensor/actuator box - SACB-4/ 4-L-M23 - 1692404

Circuit diagram



## Sensor/actuator box - SACB-4/ 4-L-M23 - 1692404

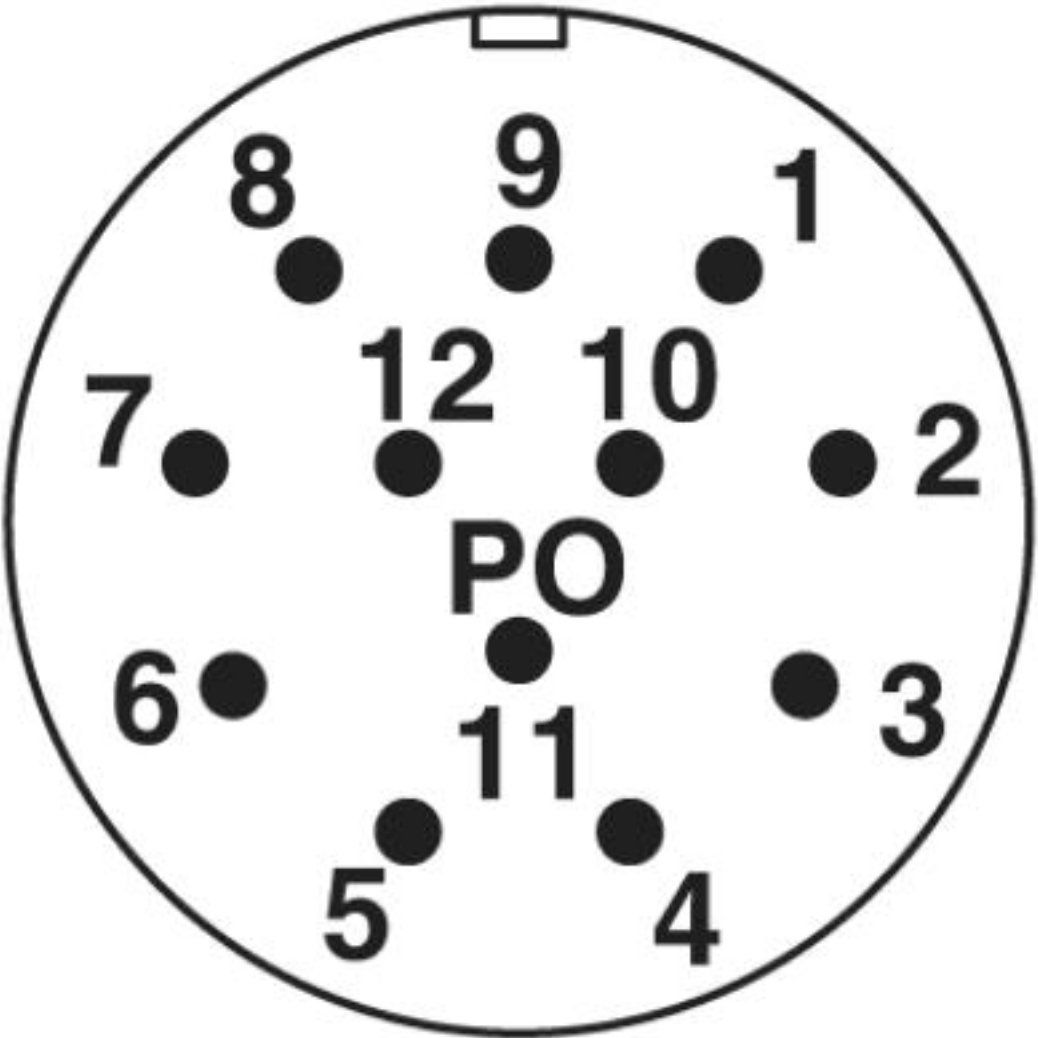
Schematic diagram



M12 slot, socket, 4-pos.

Sensor/actuator box - SACB-4/ 4-L-M23 - 1692404

Schematic diagram



M23 plug connection pin, 12-pos.

Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440108 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27250300 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279219 |
| eCl@ss 8.0    | 27279219 |

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### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 9.0 | 27440108 |
|------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000200 |
| ETIM 3.0 | EC001856 |
| ETIM 4.0 | EC002585 |
| ETIM 5.0 | EC002585 |
| ETIM 6.0 | EC002585 |
| ETIM 7.0 | EC002585 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 19.0   | 31251501 |
| UNSPSC 20.0   | 31251501 |
| UNSPSC 21.0   | 31251501 |

### Approvals

#### Approvals

Approvals

EAC / EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

#### Approval details

|     |            |               |
|-----|------------|---------------|
| EAC | <b>EAC</b> | EAC-Zulassung |
|-----|------------|---------------|

|     |            |                          |
|-----|------------|--------------------------|
| EAC | <b>EAC</b> | RU C-<br>DE.BL08.B.00511 |
|-----|------------|--------------------------|

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN |                                                                                   | 24 V                                                                                                                                                  |               |
| mm²/AWG/kcmil      |                                                                                   | 22-16                                                                                                                                                 |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN |                                                                                   | 24 V                                                                                                                                                  |               |
| mm²/AWG/kcmil      |                                                                                   | 22-16                                                                                                                                                 |               |

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|------------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### Circular connector (cable-side)

Cable connector - CA-12S1N8A8007 - 1619708



Cable connector, CA, straight, shielded: yes, Screw locking, M23, No. of pos.: 12, type of contact: Socket, Crimp connection, cable diameter range: 6 mm ... 10 mm

Cable connector - CA-12S1N8A8008 - 1619645



Cable connector, CA, straight, shielded: yes, Screw locking, M23, No. of pos.: 12, type of contact: Socket, Crimp connection, cable diameter range: 10 mm ... 14.5 mm

### Device marking

## Sensor/actuator box - SACB-4/ 4-L-M23 - 1692404

### Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



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

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### Master cable, assembled

Master cable - RCK-TGUM/BL12/ 5,0PUR-U - 1684014



M23 socket, straight, 12-pos., with 5 m master cable, pin 9 and 10 bridged

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Master cable - RCK-TGUM/BL12/10,0PUR-U - 1684027



M23 socket, straight, 12-pos., with 10 m master cable, pin 9 and 10 bridged

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Master cable - RCK-TWUM/BL12/ 5,0PUR-U - 1684030



M23 socket, angled, 12-pos., with 5 m master cable, pin 9 and 10 bridged

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Master cable - RCK-TWUM/BL12/10,0PUR-U - 1684043



M23 socket, angled, 12-pos., with 10 m master cable, pin 9 and 10 bridged

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### Accessories

Female connector - V-RC/TGUM 11/KVD 11/LBL 12 - 1000041



M23 socket, 12-pos., straight, freely configurable, with solder connection, for external cable diameter of 8 mm ... 12 mm

Female connector - V-RC/TWUM 11/KVD 11/LBL 12 - 1000043



M23 socket, 12-pos., angled, freely configurable, with solder connection, for external cable diameter of 8 mm ... 12 mm

### Plug for cable screw gland

Screw plug - PROT-M12 - 1680539



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

### Protective cap

Protective cap - MSK 1 - 1665897



M23 metal sealing cap, for unoccupied M23 connectors, without steel wire

Protective cap - MSK 2 - 1665907



M23 metal sealing cap, for unoccupied M23 connectors, with steel wire

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### Accessories

Protective cap - KSK 1 - 1685013



Plastic sealing cap, for unoccupied M23 connectors

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### Screwdriver tools

Tool - SAC BIT M12-D15 - 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 - SACC BIT M12-D20 - 1208445



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

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### T-distributor

Housing - RC-T 12/1BU2ST - 1685107



M23 T-distributor, 12-pos., with one M23 socket and two M23 plugs; position 9 and 10 bridged

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### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



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

## Sensor/actuator box - SACB-4/ 4-L-M23 - 1692404

### Accessories

Pipe spanner - PLUSCON-RCS - 1665062



Special pipe spanner, tool for mounting the M23 connector housing (with assembly), for coupling and sleeve housing

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