

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

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Sensor/actuator box, application: Standard, connection method: QUICKON, 0.14 mm² ... 0.34 mm², number of slots: 6, number of positions: 4, slot assignment: Double, status display: No, Universal; 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
- ✓ Save space: distributor box with double occupancy for two sensors in one slot
- ✓ Innovative and time-saving assembly with insulation displacement connection
- ✓ Flexible: distributor box with connector hood for on-site assembly

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 142892 |
| GTIN                                 | 4046356142892                                                                                           |
| Weight per Piece (excluding packing) | 305.820 g                                                                                               |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### General

|                                          |         |
|------------------------------------------|---------|
| Rated voltage                            | 48 V AC |
|                                          | 60 V DC |
| Current carrying capacity per I/O signal | 2 A     |
| Current carrying capacity per slot       | 4 A     |
| Total rated current                      | 10 A    |

# Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

## Technical data

### General

|                                        |                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | 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      | QUICKON                                                                                                                                                                                                                                       |
| 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. |
|                                        | 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             |
|                                 | IP69K            |
| Ambient temperature (operation) | -30 °C ... 80 °C |

### 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 of mounting screw for fixing the housing | 0.5 Nm                     |

### Conductor data

|                                                                             |                   |
|-----------------------------------------------------------------------------|-------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6         |
| Wire insulation material                                                    | PVC / PE / PP     |
| Wire diameter including insulation                                          | 0.7 mm ... 1.3 mm |

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### Technical data

#### Conductor data

|                                       |                      |
|---------------------------------------|----------------------|
| Minimum external conductor diameter   | 3.5 mm               |
| Maximum external conductor diameter   | 6 mm                 |
| Tightening torque, union nut          | 2 Nm                 |
| Wrench size, union nut                | 13 mm                |
| Conductor cross section flexible min. | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max. | 0.34 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 26                   |
| Conductor cross section AWG max.      | 22                   |

#### Insulation material

|                                                          |              |
|----------------------------------------------------------|--------------|
| Housing material                                         | PBT          |
| Material of the moulding mass                            | PUR          |
| Contact material                                         | Steel/copper |
| Contact surface material                                 | Sn           |
| Contact carrier material                                 | PA 6.6       |
| 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 6.6 V0    |

#### 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                 |
|                                          | 5 / 4 (A) = 5 / 4                 |
|                                          | 5 / 2 (B) = 5 / 2                 |
|                                          | 6 / 4 (A) = 6 / 4                 |
|                                          | 6 / 2 (B) = 6 / 2                 |
|                                          | 1-6 / 1 (+ 48 V) = U <sub>N</sub> |
|                                          | 1-6 / 3 (0 V) = 0 V               |

#### Standards and Regulations

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

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

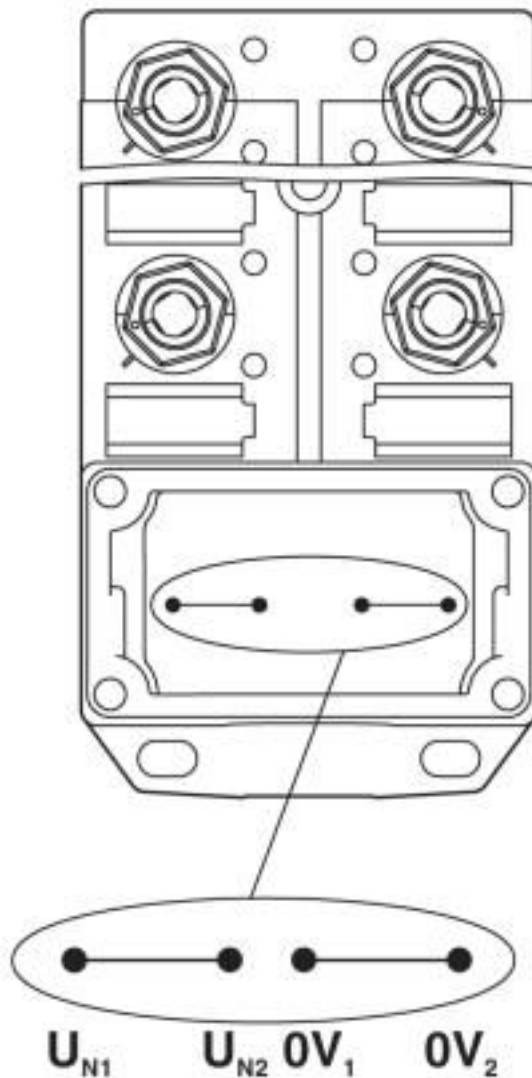
### Technical data

#### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

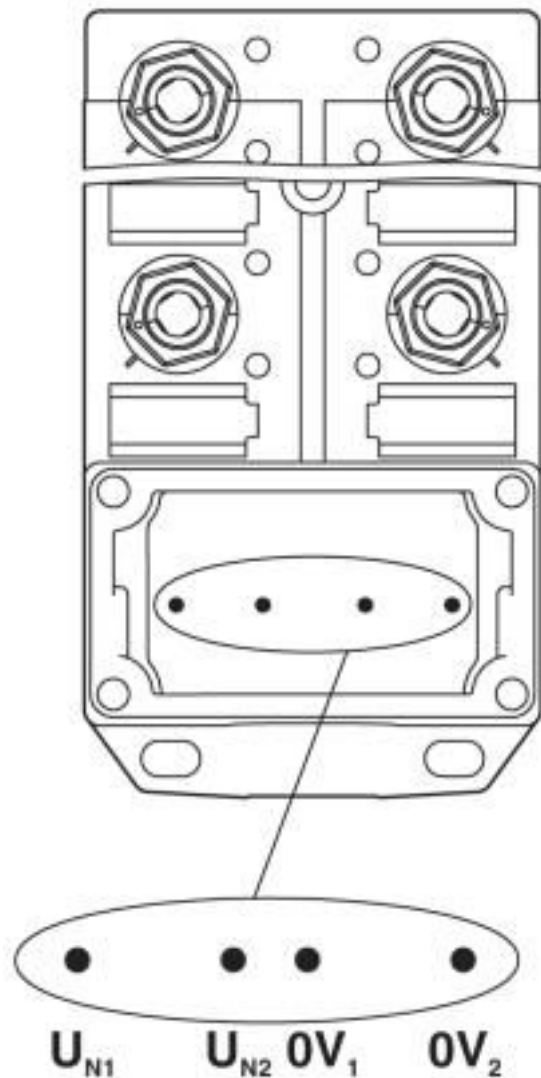
### Drawings

Schematic diagram



Potential  $U_{N1}$  and  $U_{N2}$  bridged. Potential assignment:  $U_{N1} = U_{N2}$  = slots 1,2,3,4,5,6.

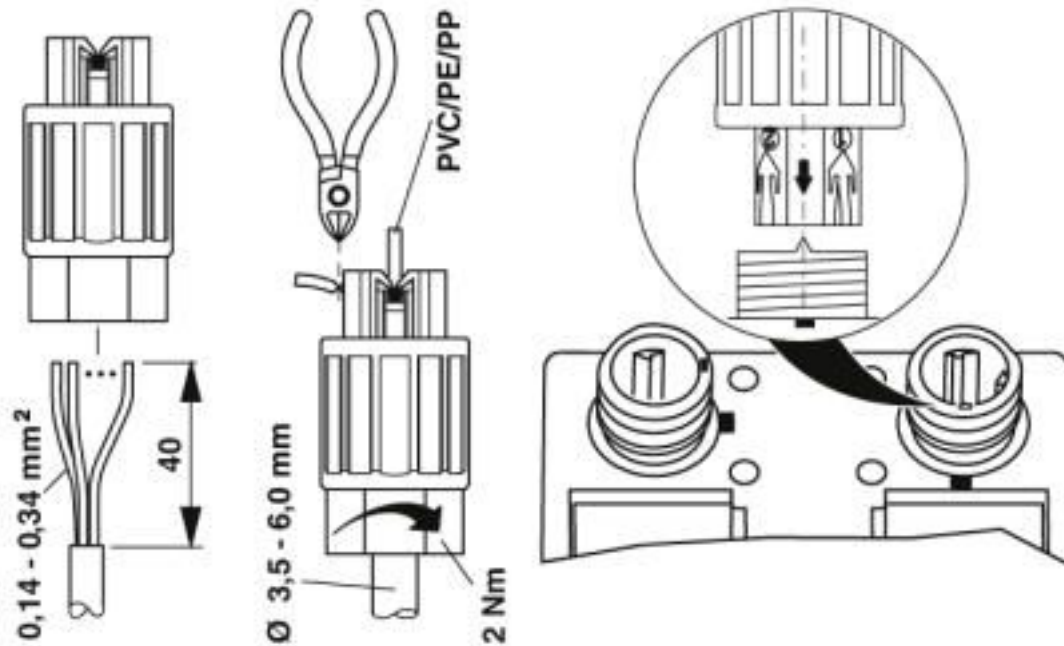
Schematic diagram



Electrically isolated. Potential assignment:  $U_{N1}$  = slots 1,3,5 and  $U_{N2}$  = slots 2,4,6.

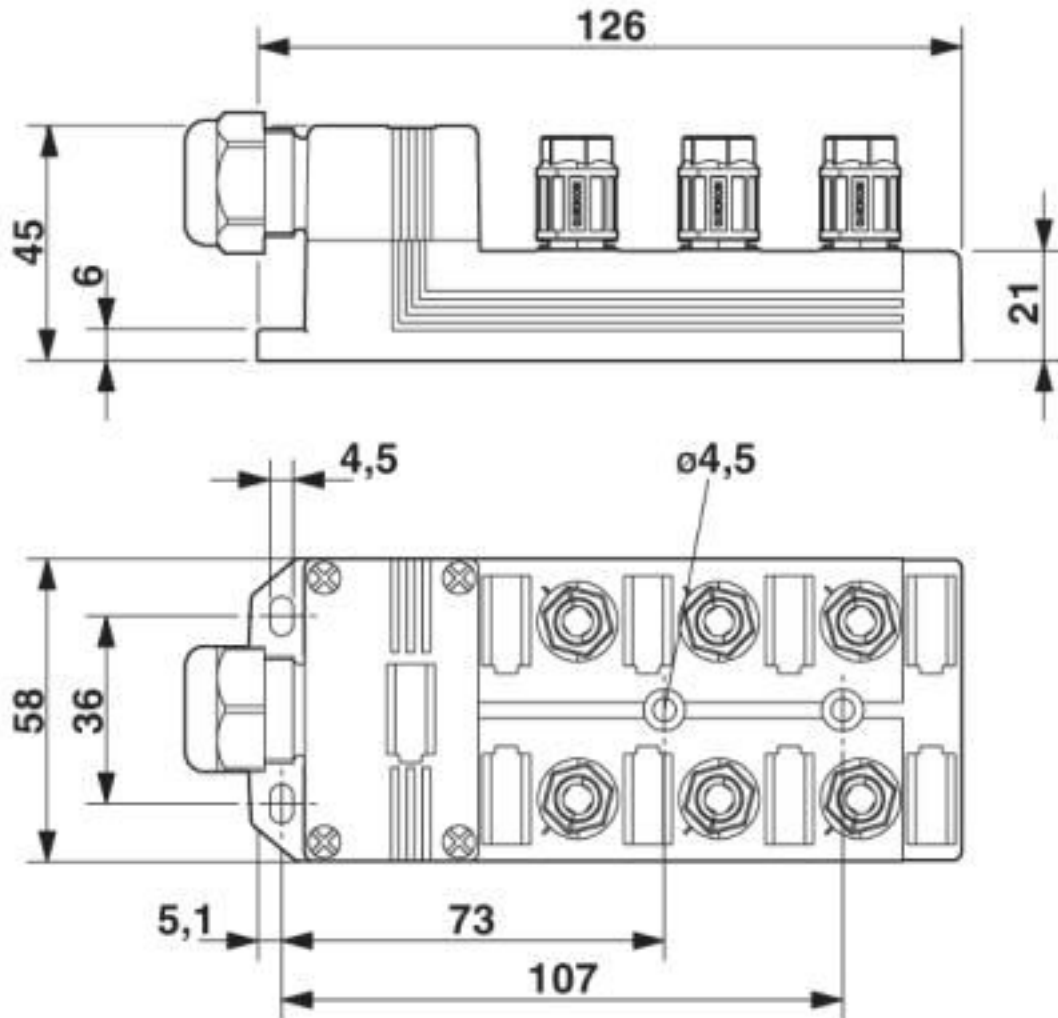
## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

Functional drawing



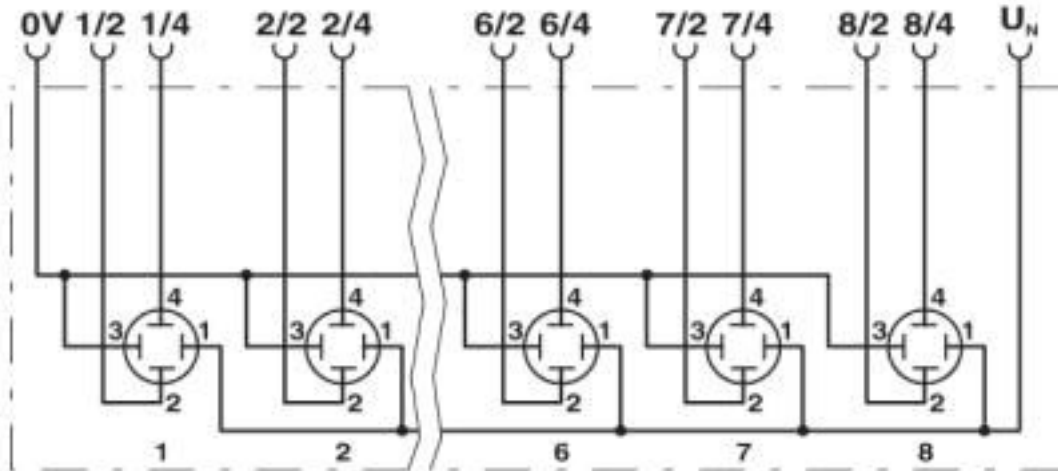
## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

Dimensional drawing

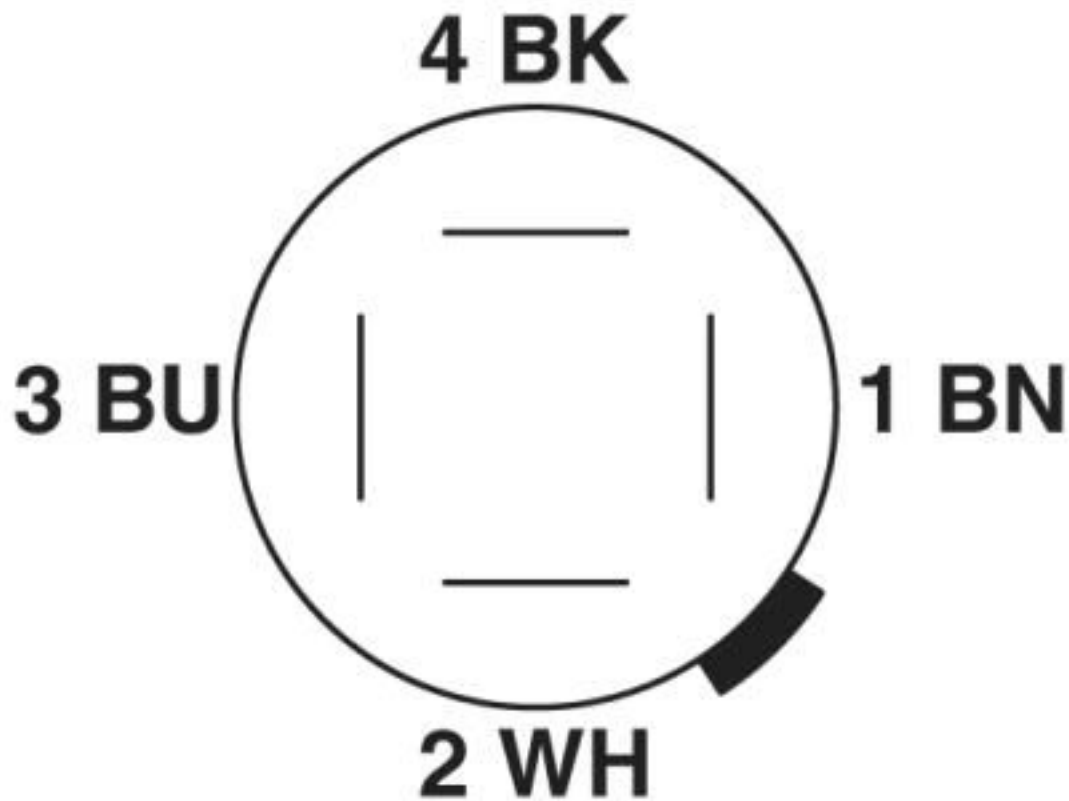


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### Circuit diagram



### Schematic diagram



QUICKON connection, 4-pos.

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

### 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 |
| eCl@ss 9.0    | 27440108 |

#### ETIM

|          |          |
|----------|----------|
| 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

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##### Approvals

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

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##### Ex Approvals

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## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

### Approvals

#### Approval details

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 |                                                                                   | 48 V                                                                                                                                                  |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 |                                                                                   | 48 V                                                                                                                                                  |               |

|     |                                                                                   |                          |  |
|-----|-----------------------------------------------------------------------------------|--------------------------|--|
| EAC |  | RU C-<br>DE.AI30.B.01102 |  |
|-----|-----------------------------------------------------------------------------------|--------------------------|--|

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

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

### Accessories

#### Accessories

##### Connector hood without master cable

Connector hood - SACB-C-H180 8/4 QO-0,34 - 1560235



Connector hood, application: Sensor/actuator box, connection method: QUICKON, number of slots: 8, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, shielding: no

### Device marking

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

### Accessories

#### Snap-in markers - UC-EM (17,5X9) - 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 into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

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#### Snap-in markers - UCT-EM (17,5X9) - 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 into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 24

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#### Snap-in markers - UC-EM (17,5X9) YE - 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 into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

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#### Snap-in markers - UCT-EM (17,5X9) YE - 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 into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 24

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### Labeled device marker

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

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

### Accessories

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



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

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

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



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

### Mounting rail adapter

DIN rail adapter - UTA 107 - 2853983



Universal DIN rail adapter, for screwing on switchgear

### Pressure nut

Connector - QO-SET - 1548626



QUICKON set for replacement purposes, consisting of splice ring, pressure nut and line seal

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

### Accessories

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#### Screwdriver tools

Adapter insert - TSD-M SAC-BIT ADAPTER - 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 - SAC BIT QUICKON-W13 - 1212033



Nut for assembling pressure nuts with 13 mm wrench size, for 4 mm hexagonal drive

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Philips screwdriver - SZK PZ1 VDE - 1206450



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

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Tool - SAC BIT HOOD-W 24 - 1212486



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

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Screw insert - SF-BIT-PZ 1-50 - 1212591



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

## Sensor/actuator box - SACB- 6/4-C QO-0,34 - 1548422

### Accessories

#### Sealing plugs

Filler plugs - Q-PROT 9/11 - 1670235



Closing cap for Pg9/Pg11 to close unoccupied connections

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### Torque tool

Torque screwdriver - TSD 20 SAC - 1212020



Torque screwdriver, with preset torque of 2.0 Nm and 4 mm hexagonal drive for the pressure nut of the fast connection

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Torque screwdriver - TSD-M 3NM - 1212225



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

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Torque screwdriver - TSD 25 SAC - 1212315



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