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Sensor/actuator box, application: Standard, connection method: M8 socket Metal, number of slots: 8, number of positions: 4, coding: A - standard, slot assignment: Double, status display: yes, pnp; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 10 m, 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 space: distributor box with double occupancy for two sensors in one slot



### **Key Commercial Data**

| Packing unit                         | 1 pc                           |
|--------------------------------------|--------------------------------|
| GTIN                                 | 4 017918 967109                |
| GTIN                                 | 4017918967109                  |
| Weight per Piece (excluding packing) | 1,554.000 g                    |
| Custom tariff number                 | 85444290                       |
| Country of origin                    | Poland                         |
| Note                                 | Made to Order (non-returnable) |

### Technical data

### General

| Rated voltage                            | 24 V DC |
|--|---------|
| Max. operating voltage U <sub>max</sub>  | 30 V DC |
| Current carrying capacity per I/O signal | 2 A     |
| Current carrying capacity per slot       | 2 A     |
| Total rated current                      | 6 A     |
| Number of positions                      | 4       |
| Number of slots                          | 8       |
| Flammability rating according to UL 94   | V0      |



## Technical data

### General

| Sensor/actuator connection system | M8 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. |
|                                   | 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) | -30 °C 80 °C |

### Local diagnostics function

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

### Master cable connection data

| Connection method                            | Fixed connection |
|--|------------------|
| Length of cable                              | 10 m             |
| 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 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) = WH    |  |
|--|-------------------|--|
|  | 1 / 2 (B) = GY/PK |  |
|  | 2 / 4 (A) = GN    |  |
|  | 2 / 2 (B) = RD/BU |  |
|  | 3 / 4 (A) = YE    |  |
|  | 3 / 2 (B) = WH/GN |  |
|  | 4 / 4 (A) = GY    |  |
|  | 4 / 2 (B) = BN/GN |  |
|  | 5 / 4 (A) = PK    |  |
|  | 5 / 2 (B) = WH/YE |  |
|  | 6 / 4 (A) = RD    |  |
|  | 6 / 2 (B) = YE/BN |  |



## Technical data

### Pin assignment

| 7 / 4 (A) = BK        |
|-----------------------|
| 7 / 2 (B) = WH/GY     |
| 8 / 4 (A) = VT        |
| 8 / 2 (B) = GY/BN     |
| 1-8 / 1 (+ 24 V) = BN |
| 1-8 / 3 (0 V) = BU    |

### Standards and Regulations

| Standard designation                   | M8 connector    |
|--|-----------------|
| Standards/regulations                  | IEC 61076-2-104 |
| Connection in acc. with standard       | CUL             |
| Flammability rating according to UL 94 | V0              |

### Cable

| Odbic                               |  |
|-------------------------------------|--|
| Cable type                          | PUR/PVC black  |
| Cable type (abbreviation)           | PUR  |
| Cable abbreviation                  | LiYY11Y-HF   |
| Conductor cross section             | 16x 0.34 mm² (Signal line)   |
|                                     | 2x 0.75 mm² (Power supply)   |
| AWG signal line                     | 22   |
| AWG power supply                    | 18   |
| Conductor structure signal line     | 42x 0.10 mm  |
| Conductor structure, voltage supply | 96x 0.10 mm  |
| Wire colors                         | brown, blue, white, green, yellow, gray, pink, red, black, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown |
| Overall twist                       | Wires twisted in layers  |
| External sheath, color              | deep black RAL 9005  |
| External cable diameter D           | 10.1 mm ±0.2 mm  |
| Number of bending cycles            | 1500000  |
| Bending radius                      | 110 mm   |
| Traversing path                     | 2 m  |
| Traversing rate                     | 2 m/s  |
| Outer sheath, material              | PUR  |
| Material, inner sheath              | PVC  |
| Material conductor insulation       | PVC  |
| Conductor material                  | Bare Cu litz wires   |
| Nominal voltage, cable              | 300 V (Signal line)  |
|                                     | 500 V (Power supply)   |
| Test voltage, cable                 | 1200 V (Signal line)   |
|                                     | 2000 V (Power supply)  |
| Special properties                  | Silicone-free  |



## Technical data

### Cable

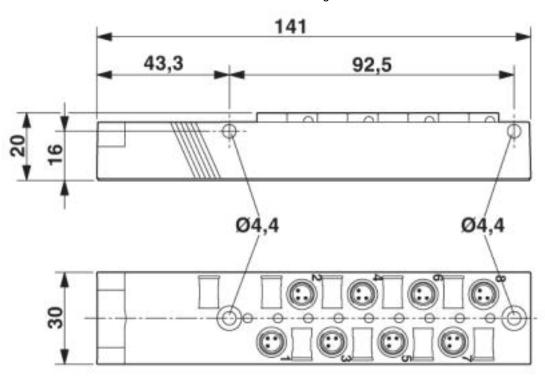
| Flame resistance                | DIN EN 50265   |
|---------------------------------|--|
| Resistance to oil               | according to VDE 0472 Part 803                             |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents |
| Ambient temperature (operation) | -40 °C 90 °C (cable, fixed installation)                   |
|                                 | -5 °C 80 °C (cable, flexible installation)                 |

## **Environmental Product Compliance**

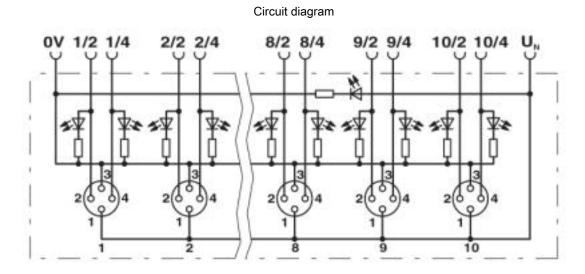
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
|            | No hazardous substances above threshold values          |

# Drawings

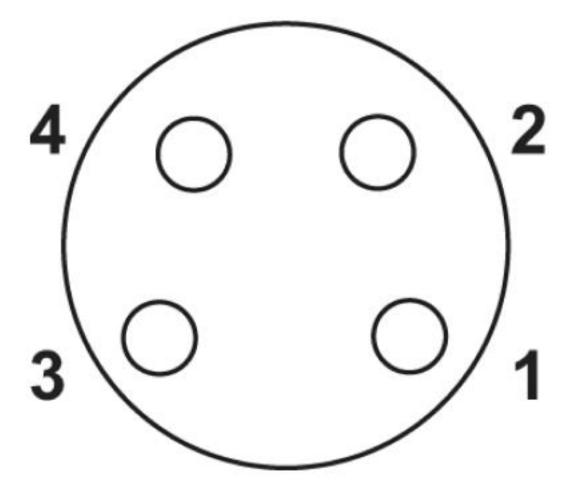
### Dimensional drawing







Schematic diagram



M8 slot, socket, 4-pos.



## Classifications

### eCl@ss

| 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 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

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details



### Approvals

| UL Recognized      | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 118976 |      | FILE E 118976 |
|--------------------|---|------|---------------|
|                    |   |      |               |
| Nominal voltage UN |   | 24 V |               |

| cUL Recognized     | . <b>7</b> \ | http://database.ul.cor | m/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 118976 |
|--------------------|--------------|------------------------|--|---------------|
|                    |              |                        |  |               |
| Nominal voltage UN |              |                        | 24 V   |               |

| EAC [A[ | RU C-<br>DE.BL08.B.00286 |
|---------|--------------------------|
|---------|--------------------------|

cULus Recognized CSUUS

### Accessories

### Accessories

### Labeled terminal marker

Marker for terminal blocks - UC-TMF 10 CUS - 0824662



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 5.1 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TMF 10 CUS - 0829679



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.4 x 4.7 mm, Number of individual labels: 36



### Accessories

Marker for terminal blocks - UC-TMF 10 YE CUS - 0824668



Marker for terminal blocks, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 5.1 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TMF 10 YE CUS - 0829682



Marker for terminal blocks, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.4 x 4.7 mm, Number of individual labels: 36

### Plug for cable screw gland

Screw plug - PROT-M8 - 1682540



An M8 screw plug for the unoccupied M8 sockets of the sensor/actuator cable, boxes and flush-type connectors

#### Screwdriver tools

Tool - SAC BIT M8-D10 - 1208461



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

### Tool - SACC BIT M8-D12 - 1208474



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

#### Terminal marking



#### Accessories

Marker for terminal blocks - UC-TMF 10 - 0818124



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 5.1 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TMF 10 - 0829204



Marker for terminal blocks, 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: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.4 x 4.7 mm, Number of individual labels: 36

Marker for terminal blocks - UC-TMF 10 YE - 0818687



Marker for terminal blocks, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 5.1 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TMF 10 YE - 0829207



Marker for terminal blocks, 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: snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 9.4 x 4.7 mm, Number of individual labels: 36

#### Torque tool

Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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