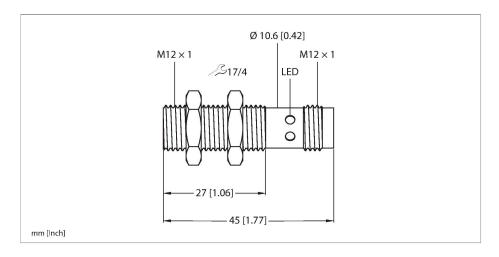


BCT4-M12-IOL-H1141 Capacitive Sensor





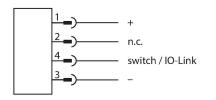
| Type | BCT4-M12-IOL-H1141 | | |
|---|--------------------------------------|--|--|
| ID | 100027492 | | |
| Hysteresis | 1020 % | | |
| Ambient temperature | -25+70 °C | | |
| Medium temperature | -25+70 °C | | |
| Electrical data | | | |
| Operating voltage U _B | 1830 VDC | | |
| | In IO-Link mode | | |
| DC rated operating current I _e | ≤ 100 mA | | |
| Switching frequency | 0.2 kHz | | |
| Isolation test voltage | 0.5 kV | | |
| Communication protocol | IO-Link | | |
| SIO mode-compatible | Yes | | |
| Number of digital outputs | 1 | | |
| Output function | 4-pin, NO/NC programmable, PNP/NPN | | |
| Voltage drop at I _e | ≤ 2 V | | |
| Insulation class | III | | |
| Tests/approvals | | | |
| IO-Link | | | |
| IO-Link specification | V 1.1 | | |
| Programming | FDT/DTM | | |
| Transmission physics | corresponds to 3-wire physics (PHY2) | | |
| Transmission rate | COM 2/38.4 kbps | | |
| Process data width | 16 bit | | |
| Measured value information | 12 bit | | |
| Frame type | 2.2 | | |
| Included in the SIDI GSDML | Yes | | |
| · | <u> </u> | | |

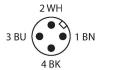


Features

- Detection of metallic and non-metallic objects
- Detection of liquids, powders and solid materials
- All functions can be parameterized via IO-Link
- ■Three different types of object teaching (one value, two value, dynamic) possible
- Available counting function whose content can be called up via IO-Link
- can be called up via IO-Link

 Switching status indicated by four LEDs ar-
- ranged all around the device ■M12 × 1 male connector, 4-pin
- Robust, compact housing made of nickel-plated brass
- ■M12 threaded design, flush, switching distance = 4 mm





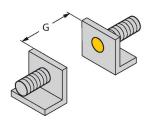


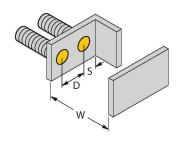
Technical data

| Mechanical data | | | |
|-----------------------|--|--|--|
| Design | Threaded barrel, M12 x 1 | | |
| Dimensions | 45 mm | | |
| Housing material | Metal, Nickel-plated brass | | |
| Active area material | Plastic, PBT, yellow | | |
| Electrical connection | Connector, M12 × 1 | | |
| Vibration resistance | 30 Hz (1 mm) | | |
| | At 1055 Hz/0.5 mm | | |
| Protection class | IP67 | | |
| MTTF | 1080 years acc. to SN 29500 (Ed. 99) 40 °C | | |
| Switching state | LED, 4 × yellow | | |

Mounting instructions

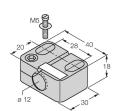
Product features





Accessories

| RST_12R | 6047212 |
|---------|---------|



Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

| Distance D | 24 mm |
|------------------------|---------|
| Distance W | 9 mm |
| Distance S | 18 mm |
| Distance G | 18 mm |
| Diameter active area B | Ø 12 mm |

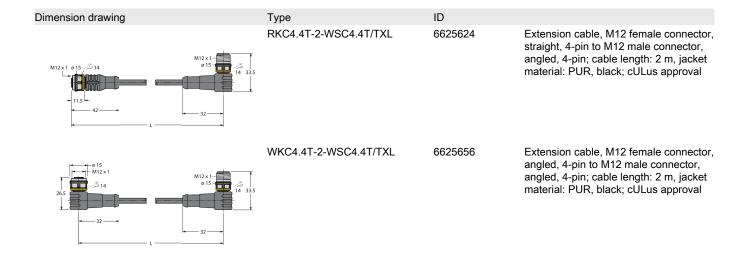
The given minimum distances have been checked against the standard switching distance.

Should the sensitivity of the sensors be changed, these data sheet specifications no longer apply.



Accessories

| Dimension drawing | Туре | ID | |
|--|----------------------------|---------|--|
| M12x1 015 20 14 | RKC4.4T-2/TXL | 6625503 | Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |
| 0 15 M12x1 26.5 14 | WKC4.4T-2/TXL | 6625515 | Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |
| 0 15 M12 x 1 26.5 32 | WKC4.4T-2/TEL | 6625025 | Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |
| M12 x 1 0 15 | RKC4.4T-2/TEL | 6625013 | Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |
| M12 x 1 2 14 o 16.2 0 15 14 M12 x 1 1 18.2 + 49.5 0 15 | RKC4.4T-P7X2-2-RSC4.4T/TEL | 6627320 | Extension cable, M12 female connector with LED (PNP, YE, GN), straight, 4-pin to M12 male connector, straight, 4-pin; cable length: 2 m, jacket material: PVC, black |
| M12x1 e15 | RKC4.4T-2-RSC4.4T/TEL | 6625208 | Extension cable, M12 female connector, straight, 4-pin to M12 male connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |
| M12x1 e 15 2 14 | RKC4.4T-2-RSC4.4T/TXL | 6625608 | Extension cable, M12 female connector, straight, 4-pin to M12 male connector, straight, 4-pin; cable length: 2 m, jacket material: PUR, black; cULus approval |



Accessories

