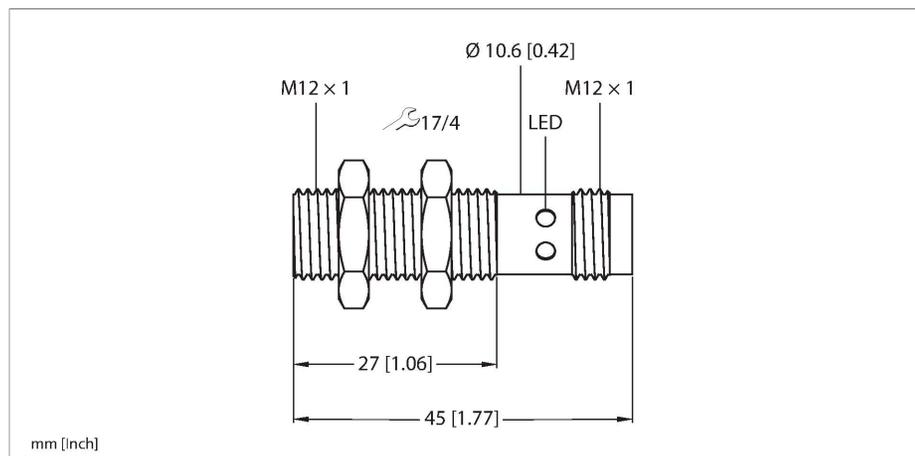


BCT4-M12-IOL-H1141

Capacitive Sensor

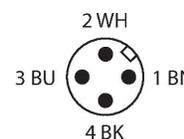
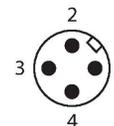


Technical data

| | |
|--------------------------------|--------------------------------------|
| Type | BCT4-M12-IOL-H1141 |
| ID | 100027492 |
| Hysteresis | 10...20 % |
| Ambient temperature | -25...+70 °C |
| Medium temperature | -25...+70 °C |
| Electrical data | |
| Operating voltage | 18...30 VDC |
| DC rated operational current | ≤ 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 _o | ≤ 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 |

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
- Switching status indicated by four LEDs arranged 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

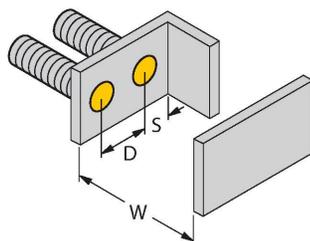
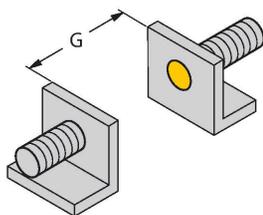


Technical data

| | |
|----------------------------|--|
| Measured value information | 12 bit |
| Frame type | 2.2 |
| Included in the SIDI GSDML | Yes |
| Mechanical data | |
| Design | Threaded barrel, M12 x 1 |
| Dimensions | 45 mm |
| Housing material | Metal, Nickel-Plated Brass |
| Active area material | yellow |
| Electrical connection | Connector, M12 x 1 |
| Protection class | IP67 |
| MTTF | 1080 years acc. to SN 29500 (Ed. 99) 40 °C |
| Switching state | LED, 4 x yellow |

Mounting instructions

Product features



| | |
|------------------------|---------|
| 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.