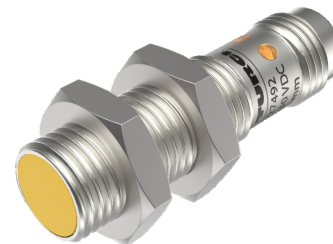
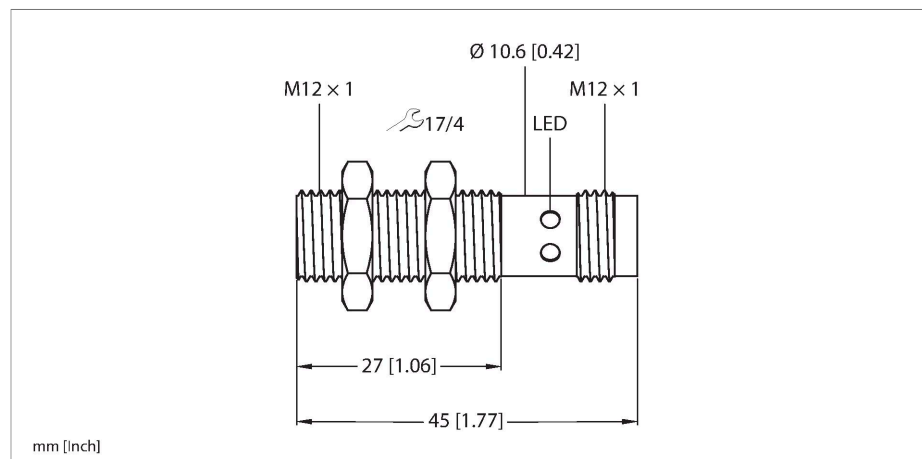


# BCT4-M12-IOL-H1141

## Capacitive Sensor

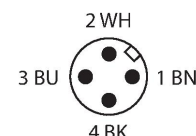
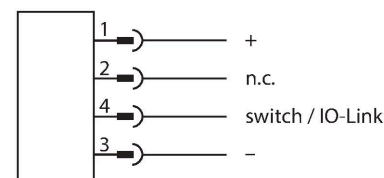


### Technical data

Type	BCT4-M12-IOL-H1141
ID	100027492
Hysteresis	10...20 %
Ambient temperature	-25...+70 °C
Medium temperature	-25...+70 °C
<b>Electrical data</b>	
Operating voltage $U_s$	18...30 VDC
	In IO-Link mode
DC rated operating current $I_s$	≤ 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 $I_s$	≤ 2 V
Insulation class	III
<b>Tests/approvals</b>	
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

### 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

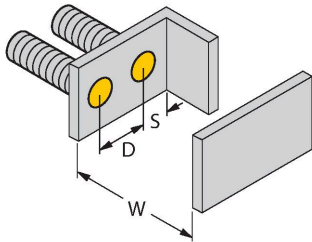
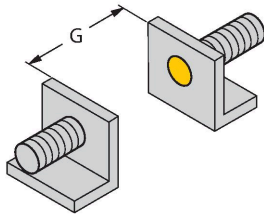


Technical data

Process data width	16 bit
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
	At 10...55 Hz/0.5 mm
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.