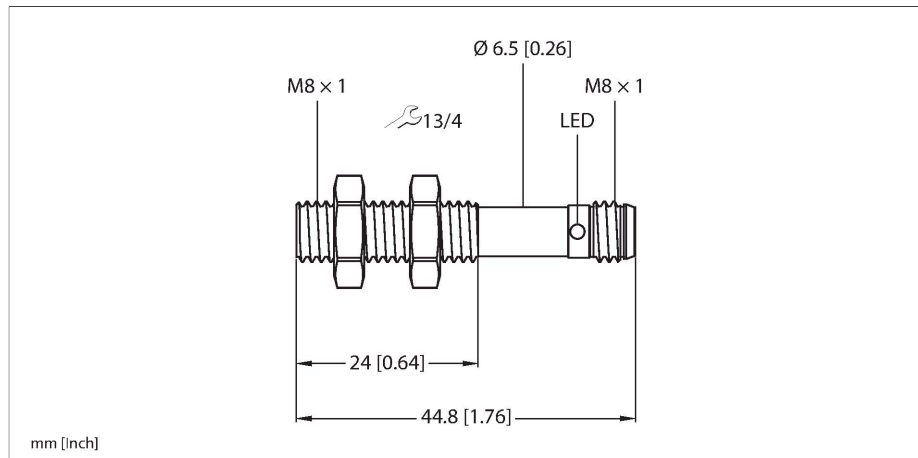


# BCT2-M08-IOL-V1131

## Capacitive Sensor

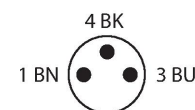


### Features

- 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
- Male connector, M8 x 1, 3-pin
- Robust, compact housing made of nickel-plated brass
- M8 threaded design, flush, switching distance = 2 mm

### Technical data

Type	BCT2-M08-IOL-V1131
ID	100027490
Hysteresis	10...20 %
Ambient temperature	-25...+70 °C
Medium temperature	-25...+70 °C
<b>Electrical data</b>	
Operating voltage	18...30 VDC
	In IO-Link mode
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	3-pin, NO/NC programmable, PNP/NPN
Voltage drop at I <sub>a</sub>	≤ 2 V
Insulation class	III
<b>Tests/approvals</b>	
<b>IO-Link</b>	
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



Technical data

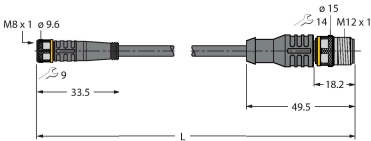
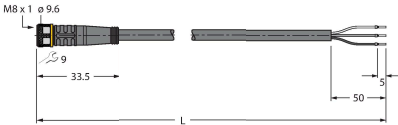
Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	44.8 mm
Housing material	Metal, Nickel-plated brass
Active area material	yellow
Electrical connection	Connector, M8 x 1
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, 4 x yellow

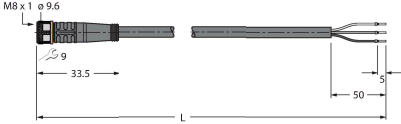
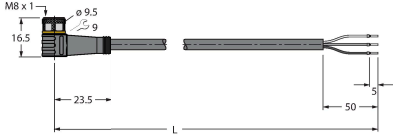
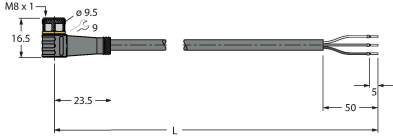

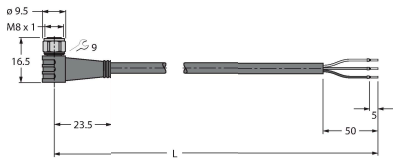

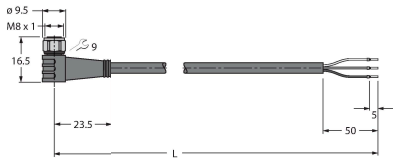
Mounting instructions

Product features		
	Distance D	16 mm
	Distance W	8 mm
	Distance S	12 mm
	Distance G	16 mm
	Diameter active area B	Ø 8 mm

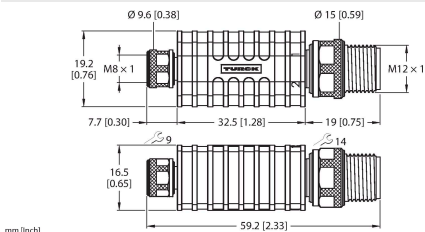
The given minimum distances have been checked against the standard switching distance.  
Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

Accessories

Dimension drawing	Type	ID	
	PKG4M-2-RSC4.4T/TXL	6627063	Extension cable, M8 female connector, straight, 4-pin to M12 male connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	PKG3M-2/TEL	6625058	Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

Dimension drawing	Type	ID	
	PKG3M-2/TXL	6625550	Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	PKW3M-2/TEL	6625064	Connection cable, M8 female connector, angled, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	PKW3M-2/TXL	6625556	Connection cable, M8 female connector, angled, 3-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	PKGV3M-2/TEL	6625385	Connection cable, M8 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, black; cULus approval
	PKWV3M-2/TEL	6625391	Connection cable, M8 female connector, angled, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, black; cULus approval
	PKGV3M-2/TXL	6627803	Connection cable, M8 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PUR, black; cULus approval
	PKWV3M-2/TXL	6628798	

Accessories

Dimension drawing	Type	ID	
	AD-MFK3-FSM4	6628083	Adapter, M8 female connector, 3-pin to M12 male connector, 3-pin
	USB-2-IOL-0002	6825482	IO-Link Master with integrated USB port

