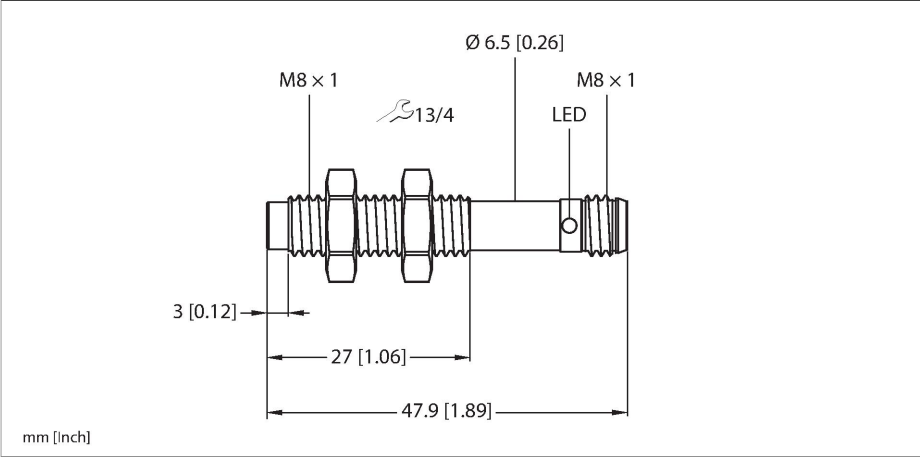


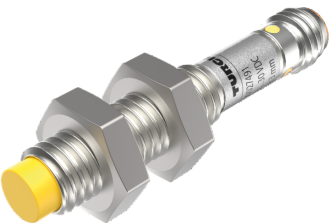
NCT3-M08-IOL-V1131

Capacitive Sensor



Technical data

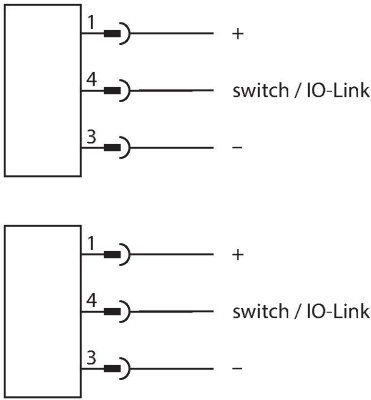
Type	NCT3-M08-IOL-V1131
ID	100027491
Hysteresis	10...20 %
Ambient temperature	-25...+70 °C
Medium temperature	-25...+70 °C
Electrical data	
Operating voltage U _B	18...30 VDC
	In IO-Link mode
DC rated operating current I _a	≤ 100 mA
Switching frequency	0.2 kHz
Isolation test voltage	0.5 kV
Communication 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 _a	≤ 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



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 × 1, 3-pin
- Robust, compact housing made of nickel-plated brass
- M8 threaded design, non-flush, switching distance = 3 mm

Wiring diagram

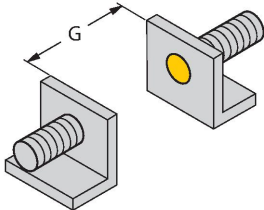


Technical data

Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	47.9 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

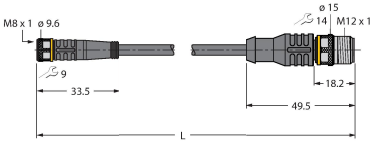
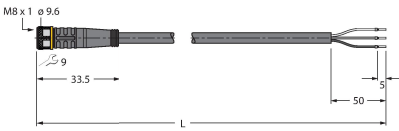
Mounting instructions

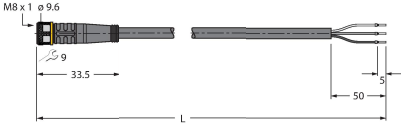
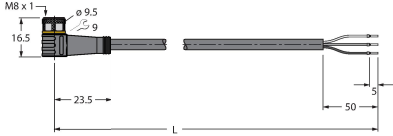
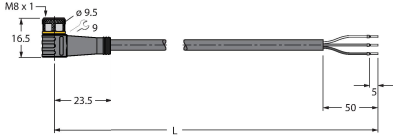
Product features



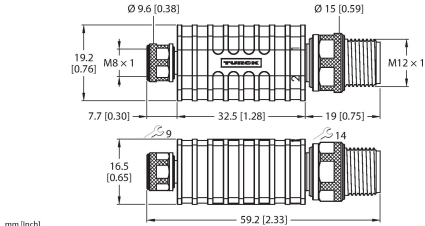
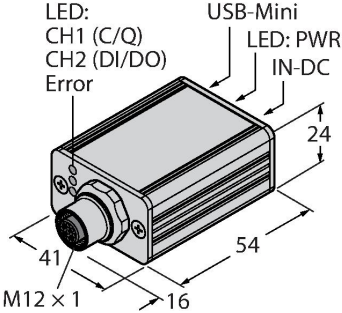
Distance D	16 mm
Distance W	8 mm
Distance S	12 mm
Distance G	16 mm
Diameter active area B	Ø 8 mm

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

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