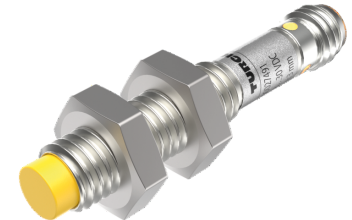
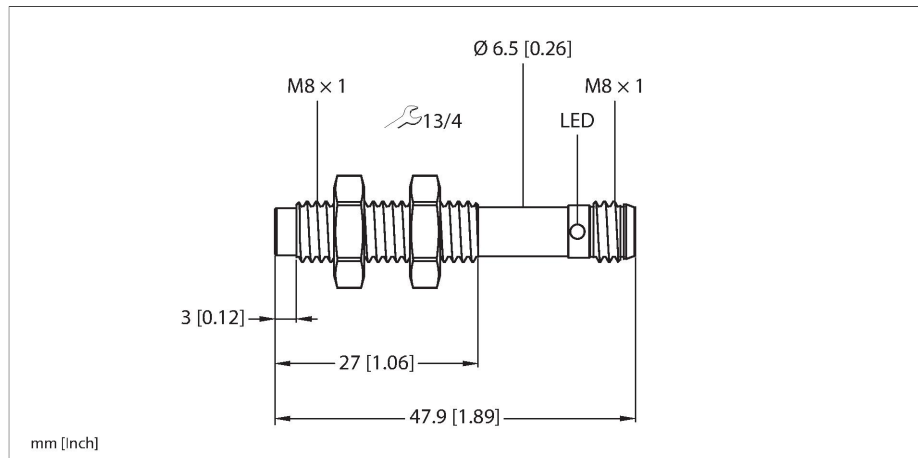


NCT3-M08-IOL-V1131

Capacitive Sensor



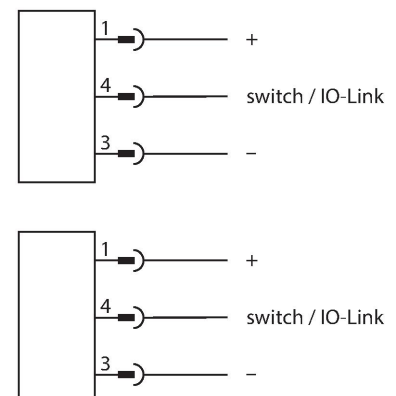
Technical data

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_o	≤ 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_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
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

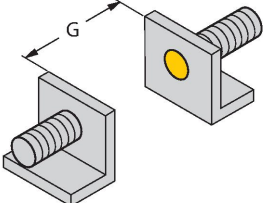
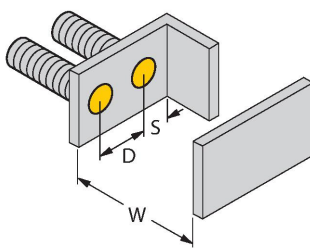
Wiring diagram



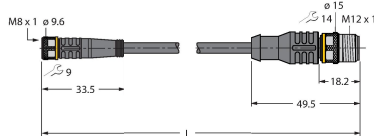
Technical data

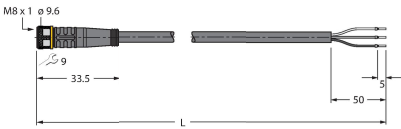
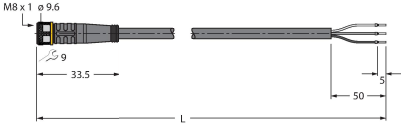
Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	47.9 mm
Housing material	Metal, Nickel-plated brass
Active area material	Plastic, PBT, yellow
Electrical connection	Connector, M8 x 1
Vibration resistance	30 Hz (1 mm) At 10...55 Hz/0.5 mm
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, 4 x yellow

Mounting instructions

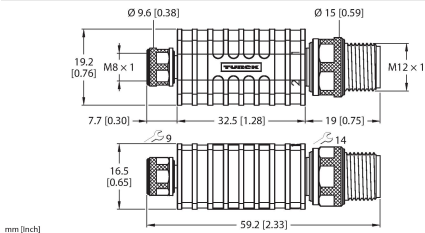
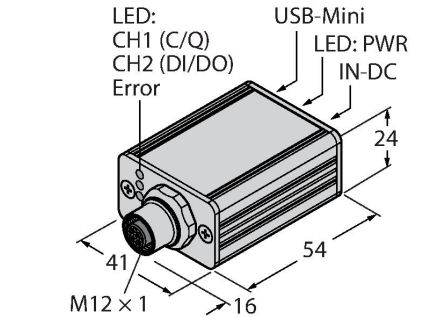
Product features		
	Distance D	16 mm
	Distance W	8 mm
	Distance S	12 mm
	Distance G	16 mm
	Diameter active area B	Ø 8 mm
The given minimum distances have been checked against the standard switching distance. Should the sensitivity of the sensors be changed, these data sheet specifications no longer apply.		

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

Dimension drawing	Type	ID	
	PKG3M-2/TEL	6625058	Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	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