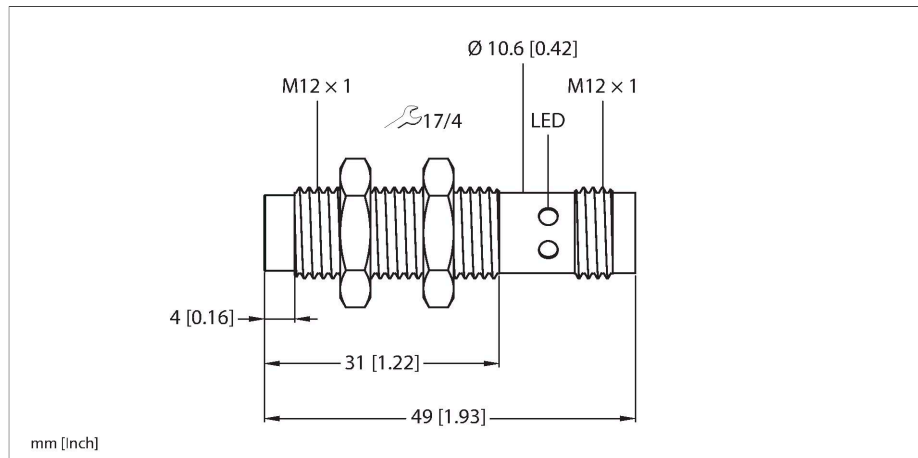


NCT8-M12-IOL-H1141

Capacitive Sensor

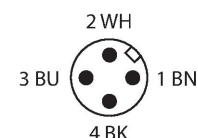
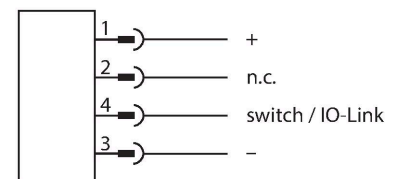


Features

- 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
- M12 x 1 male connector, 4-pin
- Robust, compact housing made of nickel-plated brass
- M12 threaded design, non-flush, switching distance = 8 mm

Technical data

Type	NCT8-M12-IOL-H1141
ID	100027493
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	4-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

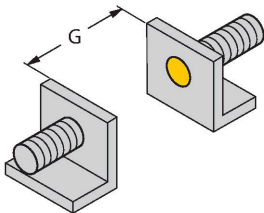


Technical data

Mechanical data	
Design	Threaded barrel, M12 x 1
Dimensions	49 mm
Housing material	Metal, Nickel-plated brass
Active area material	Plastic, PBT, yellow
Electrical connection	Connector, M12 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

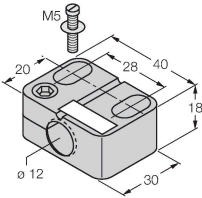
Mounting instructions

Product features


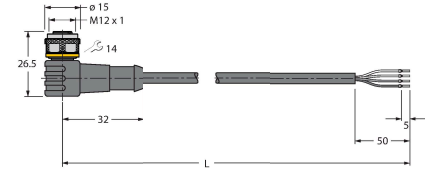
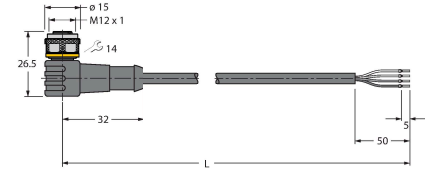
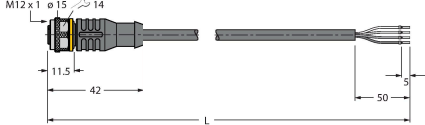
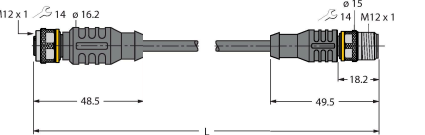
An isometric technical drawing showing two views of a sensor mounting bracket. The bracket is L-shaped with a square base and a vertical flange. A threaded rod with a hex nut is shown passing through the flange. Dimension lines indicate: 'G' is the distance from the base of the bracket to the center of the threaded rod; 'D' is the distance from the base of the bracket to the center of the mounting hole in the flange; 'W' is the width of the mounting hole; 'S' is the distance from the base of the bracket to the center of the mounting hole in the flange. A yellow circle in the center of the mounting hole represents the active area.

Distance D	24 mm
Distance W	9 mm
Distance S	18 mm
Distance G	18 mm
Diameter active area B	Ø 12 mm

Accessories

BST-12B	6947212
Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	
	

Accessories

Dimension drawing	Type	ID	
	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	RKC4.4T-P7X2-2-RSC4.4T/TEL	6627320	Extension cable, M12 female connector with LED (PNP, YE, GN), straight, 4-pin to M12 male connector, straight, 4-pin; cable length: 2 m, jacket material: PVC, black

Accessories

Dimension drawing	Type	ID	
	USB-2-IOL-0002	6825482	IO-Link Master with integrated USB port

