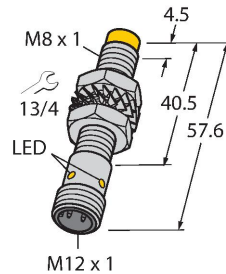


NI3-M08E-AN6X-H1341

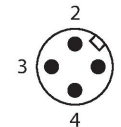
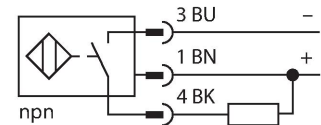
Inductive Sensor – With Increased Switching Distance



Features

- Threaded barrel, M8 x 1
- Nickel-plated brass
- Large sensing range
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M12 x 1 male connector

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

Technical data

Type	NI3-M08E-AN6X-H1341
ID	4602832
General data	
Rated switching distance	3 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	$\leq \pm 10$ %
Hysteresis	3...15 %
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current	15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I_o	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, NPN
Switching frequency	2.8 kHz

Technical data

Mechanical data	
Design	Threaded barrel, M8 × 1
Dimensions	57.6 mm
Housing material	Metal, CuZn, Nickel Plated
Active area material	Plastic, PP-GF20
Max. tightening torque of housing nut	7 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25...+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description

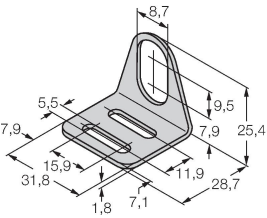
The image contains three technical drawings of a mounting bracket. The top drawing is a side view showing a bracket with a central hole and a threaded rod passing through it. Dimension 'T' is indicated as the distance from the hole to the outer edge of the bracket. The middle drawing is a top view showing two brackets connected by a threaded rod. Dimension 'G' is indicated as the distance between the two rods. The bottom drawing is a perspective view of a bracket with two threaded rods. Dimensions 'N', 'S', 'D', 'W', and 'B' are indicated: 'N' is the distance from the top edge to the first rod, 'S' is the distance between the two rods, 'D' is the distance from the bottom edge to the first rod, 'W' is the total width of the bracket, and 'B' is the diameter of the active area (indicated by a yellow circle).

Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 8 mm

NI3-M08E-AN6X-H1341 | 11/29/2022 08-27 | technical changes reserved

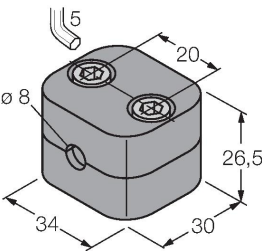
Accessories

MW-08 6945008



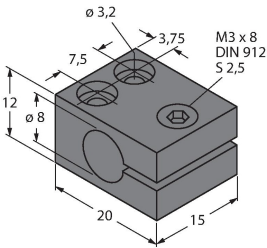
Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-08 6901322



Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

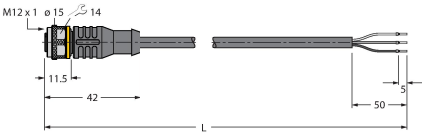
MBS80 69479



Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum

Wiring accessories

Dimension drawing	Type	ID	
	RKC4T-2/TEL	6625010	



Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com