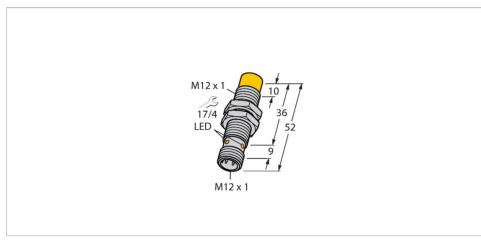


NI8U-M12-AN6X-H1141 Inductive Sensor



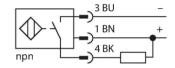
Technical data

Type	NI8U-M12-AN6X-H1141		
ldent. no.	1644150		
Rated switching distance	8 mm		
Mounting conditions	Non-flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ± 10 %		
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C		
Hysteresis	315 %		
Ambient temperature	-30+85 °C		
Operating voltage	1030 VDC		
Residual ripple	≤ 10 % U _{ss}		
DC rated operational current	≤ 200 mA		
No-load current	≤ 20 mA		
Residual current	≤ 0.1 mA		
Isolation test voltage	≤ 0.5 kV		
Short-circuit protection	yes / Cyclic		
Voltage drop at I _e	≤ 1.8 V		
Wire breakage/Reverse polarity protection	yes / Complete		
Output function	3-wire, NO contact, NPN		
Insulation class			
Switching frequency	2 kHz		
Design	Threaded barrel, M12 \times 1		
Dimensions	52 mm		

Features

- M12 × 1 threaded barrel
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- 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. *uprox** Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

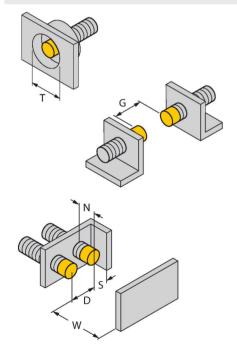


Technical data

Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, LCP	
Max. tightening torque housing nut	10 Nm	
Electrical connection	Connector, M12 × 1	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP68	
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	

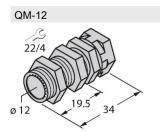
Mounting instructions

Mounting instructions/Description



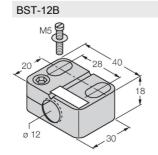
Distance D	48 mm
Distance W	3 x Sn
Distance T	45 mm
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 12 mm

Accessories

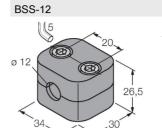


Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M16 × 1. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

6945101



6947212 Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6 Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



6901321

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

Wiring accessories

Dimension drawing	Туре	Ident. no.	
	RKC4T-2/TEL	6625010	Cor



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