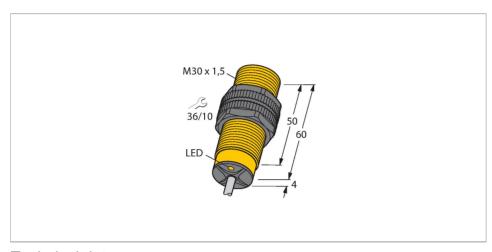


NI15-S30-RZ3X Inductive Sensor



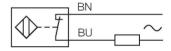
Technical data

Ident. no. 43557 Rated switching distance 15 mm Mounting conditions Non-flush Secured operating distance ≤ (0.81 × Sn) mm Correction factors St37 = 1; Al = 0.3; stainless steel = 0.4 Repeat accuracy ≤ 2 % of full scale Temperature drift ≤ ± 10 % Hysteresis 315 % Ambient temperature -25+70 °C Operating voltage 20250 VAC Operating voltage 10300 VDC AC rated operational current ≤ 400 mA DC rated operational current ≤ 300 mA Frequency ≥ 50≤ 60 Hz Residual current ≤ 1.7 mA Isolation test voltage ≤ 1.5 kV Surge current ≤ 8 A (≤ 10 ms max. 5 Hz) Voltage drop at I₀ ≤ 6 V Output function 2-wire, NC contact Smallest operating current ≥ 3 mA	
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Smallest operating current ≥ 3 mA	
0.00111	
Switching frequency 0.02 kHz	

Features

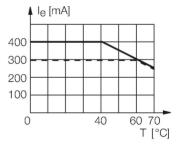
- ■Threaded barrel, M30 x 1.5
- Plastic, PA12-GF30
- ■AC 2-wire, 20...250 VDC
- ■DC 2-wire, 10...300 VDC
- ■NC contact
- Cable connection

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.



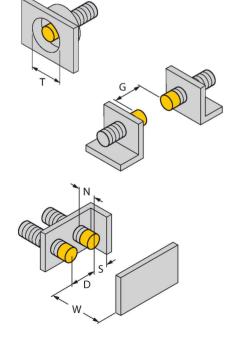


Technical data

Design	Threaded barrel, M30 × 1.5
Dimensions	64 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
End cap	Plastic, EPTR
Max. tightening torque of housing nut	5 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	2 x 0.34 mm²
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, Red

Mounting instructions

Mounting instructions/Description



3 x B
3 x Sn
3 x B
1.5 x B
6 x Sn
2 x Sn
Ø 30 mm

2|3

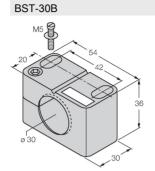


Accessories



6945103

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.



6947216

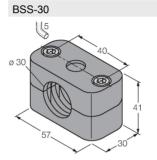
6901319

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



6945005

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



Mounting clamp for smooth and threaded barrel sensors; material:

Polypropylene