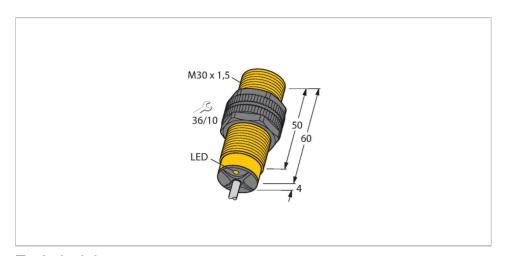


NI15-S30-AZ3X/S100 Inductive Sensor – With Increased Temperature Range



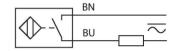
Technical data

Type	NI15-S30-AZ3X/S100
ID no.	13758
Special version	S100 corresponds to: Maximum ambient temperature = 100 °C
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 = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-25+100 °C
Operating voltage	20250 VAC
Operating voltage	10300 VDC
AC rated operational current	≤ 400 mA
DC rated operational current	≤ 300 mA
Rated operational current	See derating curve
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, NO contact, 2-wire

Features

- ■Threaded barrel, M30 x 1.5
- Plastic, PA12-GF30
- ■Temperatures up to +100 °C
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- Cable connection

Wiring diagram

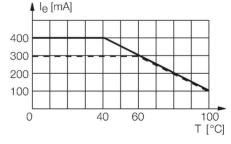


Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

Special versions are available for ambient

Special versions are available for ambient temperatures between -60°C and +250°C.



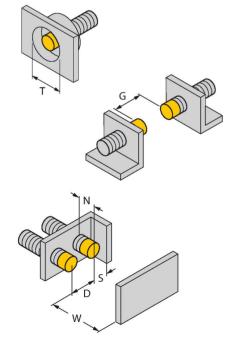


Technical data

≥ 3 mA
0.02 kHz
Threaded barrel, M30 × 1.5
64 mm
Plastic, PA12-GF30
Plastic, PA12-GF30
Plastic, EPTR
5 Nm
Cable
Ø 5.2 mm, LifYY-T105, PVC, 2 m
2 x 0.5 mm ²
55 Hz (1 mm)
30 g (11 ms)
IP67
2283 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Red

Mounting instructions

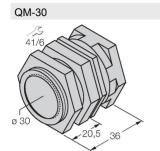
Mounting instructions/Description



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 30 mm

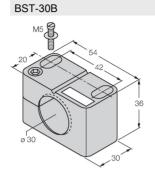


Accessories



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

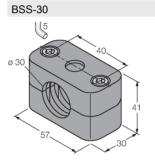
6901319

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