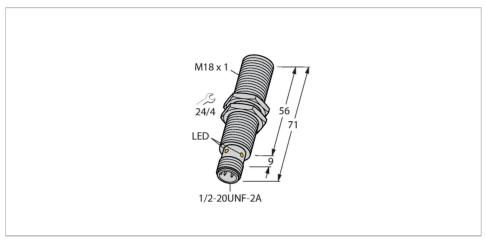


BI5-GT18-ADZ30X2-B3331/S34 Inductive Sensor – Resistant to Magnetic Fields



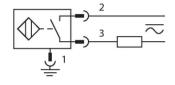
Technical data

Туре	BI5-GT18-ADZ30X2-B3331/S34
ID	4255400
Special version	S34 Corresponds to:Weld-field immune proximity sensors
General data	
Rated switching distance	5 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; AI = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U _B	20250 VAC
Operating voltage U _B	10300 VDC
AC rated operational current	≤ 400 mA
DC rated operating current I _e	≤ 300 mA
Frequency	≥ 50≤ 60 Hz
Residual current	≤ 1.7 mA
Isolation test voltage	1.5 kV
Surge current	≤ 3 A (≤ 20 ms max. 5 Hz)
Short-circuit protection	yes/Latching
Voltage drop at I _e	≤ 6 V
Wire break/reverse polarity protection	yes/Complete

Features

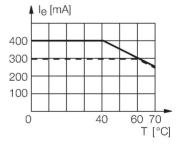
- ■Threaded barrel, M18 x 1
- ■Brass, PTFE-coated
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NO contact
- 1/2" male connector

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.



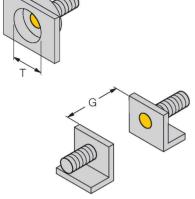


Technical data

2-wire, NO contact, 2-wire
≥ 3 mA
0.02 kHz
Threaded barrel, M18 x 1
71 mm
Metal, CuZn, PTFE-coated
Plastic, PA12-GF30, PTFE-coated
25 Nm
Connector, 1/2"
-25+70 °C
55 Hz (1 mm)
30 g (11 ms)
IP67
2283 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Green
LED, Red

Mounting instructions

Mounting instructions/Description

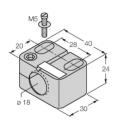


W

Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 18 mm

Accessories

BST-18B 6947214



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



QMT-18

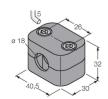
QM-18

Quick-mount bracket with dead-stop; material: brass, PTFE-coated; Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

6945104

6945102

BSS-18 6901320



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



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.