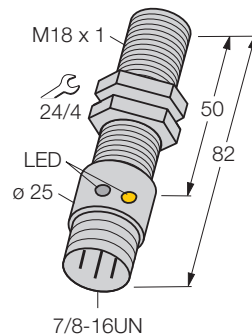


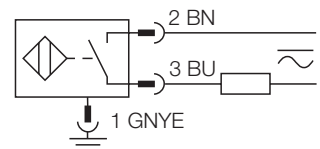
Inductive sensor

Bi5U-G18-ADZ30X2-B1331



- threaded barrel, M18 x 1
- chrome-plated brass
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 2-wire AC, 20...250 VAC
- 2-wire DC, 10...300 VDC
- normally open
- connector, 7/8"

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. Due to a ferrite-less 3-coil system, Uprox factor 1 sensor have distinct advantages. The detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

Type	Bi5U-G18-ADZ30X2-B1331
Ident-No.	4281212
Rated operating distance S_n	5 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C -30 ...+ 85 °C
Rated operational voltage (AC) U_B	20... 250 VAC
Rated operational voltage (DC) U_B	10... 300 VDC
Rated operational current (AC) I_e	≤ 400 mA
Rated operational current (DC) I_e	≤ 300 mA
Line frequency	50... 60 Hz
Max. OFF-state current	≤ 1,7 mA
Max. switching frequency	≤ 0,02 kHz
Rated insulation voltage	≤ 1,5 kV
Surge Current	≤ 3 A (≤ 20 ms max. 5 Hz)
Output function	2-wire, normally open
Short-circuit protection	yes, short-circuit
Max. voltage drop at I_e	≤ 6 V
Wire breakage / reverse polarity protection	yes / complete
Min. operational current I_m	≥ 3 mA
Protection class	□
Housing style	threaded barrel; M18 x 1
Dimensions	82 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PBT
Max. fixing torque of coupling nut	25 Nm
Wiring	connector, 7/8"
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67



Inductive sensor

Bi5U-G18-ADZ30X2-B1331

Supply voltage indication

LED green

Switching status indication

LED yellow

The TURCK logo, consisting of the word "TURCK" in a bold, black, sans-serif font, positioned on a yellow background that forms part of a larger yellow T-shape.

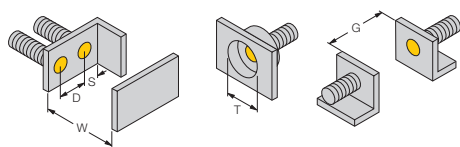
TURCK

Inductive sensor**Bi5U-G18-ADZ30X2-B1331****Mounting instructions**

	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn

Diameter of active face B

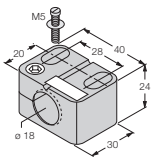
Ø 18 mm



Inductive sensor

Bi5U-G18-ADZ30X2-B1331

Accessories

Typ	Ident-No.	Description	Dimension drawing
BST-18B	6947214	fixing clamp with dead-stop; material: PA6	
QM-18	6945102	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M24 x 1,5.	

