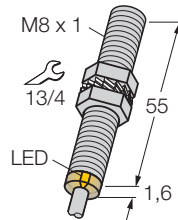


Inductive sensor Bi1,5-G08-AN7X

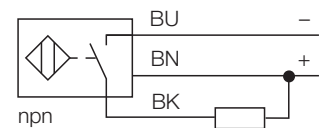
TURCK

Industrial
Automation



- Threaded barrel, M8 x 1
- Stainless steel, 1.4404
- 3-wire DC, 10...30 VDC
- normally open npn output
- TTL compatible
- cable connection

Wiring diagram



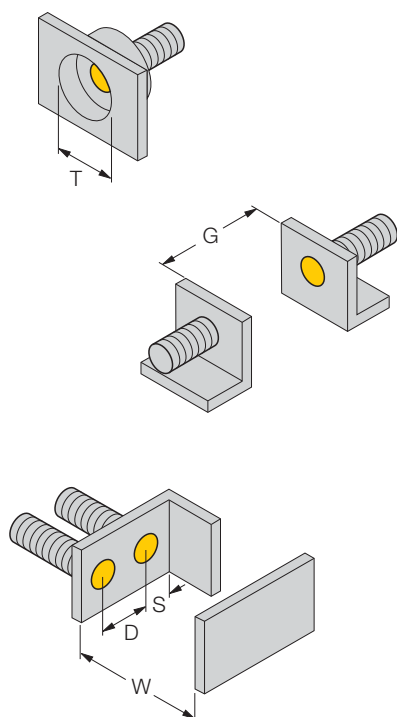
Functional principle

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.

Type	Bi1,5-G08-AN7X
Ident-No.	4701125
Rated operating distance Sn	1.5 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 30 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 10 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	no
Voltage drop at I _e	≤ 0.7 V
Wire breakage / Reverse polarity protection	yes / yes (voltage supply)
Output function	3-wire, NO contact, NPN
Switching frequency	≤ 3kHz
Housing	threaded barrel, M8 x 1
Dimensions	56.6 mm
Housing material	Metal, V2A (1.4301)
Material active face	Plastic, plastic, PA12-GF20
End cap	Plastic, PP
Tightening torque of housing nut	10 Nm
Electrical connection	cables
Cable quality	Ø 4, LifYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.25mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection class	IP67
Switching state	LED yellow

Inductive sensor Bi1,5-G08-AN7X

Mounting instructions	minimum distances
Distance D	$2 \times B$
Distance W	$3 \times S_n$
Distance T	$3 \times B$
Distance S	$1.5 \times B$
Distance G	$6 \times S_n$
Diameter of the active area B	$\varnothing 8 \text{ mm}$



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Type code	Ident-No.	Short text	Dimension drawing
BST-08B	6947210	Fixing clamp with dead-stop; material: PA6	
MW-08	6945008	Mounting bracket; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-08	6901322	Fixing clamp; material: Polypropylene	