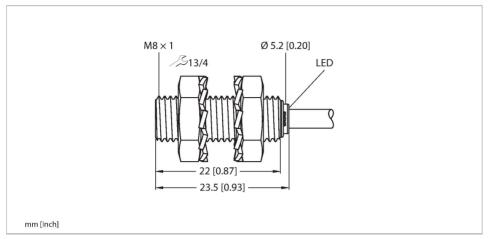


BI2-EG08K-AN6X 7M Inductive Sensor – With Increased Switching Distance





Features

■M8 × 1 threaded tube

■ Stainless steel, 1.4305 (AISI 303)

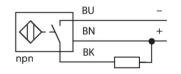
■ Large sensing range

■DC 3-wire, 10...30 VDC

■NO contact, NPN output

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

Туре	BI2-EG08K-AN6X 7M	
ID	4669510	
General data		
Rated switching distance	2 mm	
Mounting conditions	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 %	
Hysteresis	20 %	
Electrical data		
Operating voltage U _B	1030 VDC	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _e	≤ 150 mA	
No-load current	≤ 15 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	0.5 kV	
Short-circuit protection	yes/Cyclic	
Voltage drop at I _e	≤ 1.8 V	
Wire break/reverse polarity protection	yes/Complete	
Output function	3-wire, NO contact, NPN	
Switching frequency	3 kHz	



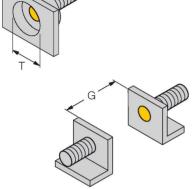
Technical data

Mechanical data		
Design	Threaded barrel, M8 x 1	
Dimensions	23.5 mm	
Housing material	Stainless steel, 1.4305 (AISI 303)	
Active area material	Plastic, PA6.6	
End cap	Plastic, PP	
Max. tightening torque of housing nut	5 Nm	
Electrical connection	Cable	
Cable quality	Ø 3.3 mm, Gray, LifY-11Y, PUR, 7 m	
Core cross-section	3 x 0.14 mm²	
Environmental conditions		
Ambient temperature	-25+70 °C	
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, Yellow	

2 x B 3 x Sn

Mounting instructions

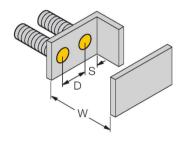
Mounting instructions/Description



Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 8 mm

Distance D

Distance W



Accessories

BST-08B 6947210

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



QM-08

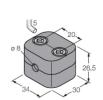
BSS-08

6945100 Quick-mount bracket with dead-

stop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quickmount brackets.

MW08 6945008

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

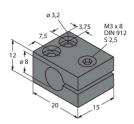


6901322 Mounting clamp for smooth and

threaded barrel sensors; material: Polypropylene



MBS80 69479



Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum