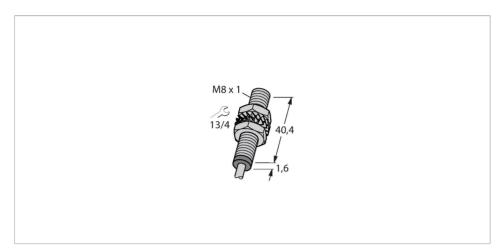


BI1.5-EG08-LU Inductive Sensor – With Analog Output



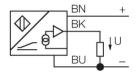
Technical data

Туре	BI1.5-EG08-LU
Ident. no.	1533003
Measuring range	0.251.25 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
Repeatability	≤ 1 % of measuring range A - B
	0.5 %, after warm-up 0.5 h
Reproducibility	≤ 10 µm
	≤ 5 µm, after a warm-up time of 0.5 h
Linearity deviation	≤ 3 %
Temperature drift	≤±0.06 % / K
Ambient temperature	-25+70 °C
Operating voltage	1530 VDC
Residual ripple	≤ 10 % U _{ss}
No-load current	≤ 8 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	no / Complete
Output function	3-wire, Analog output
Voltage output	010 V
Load resistance voltage output	≥ 4.7 kΩ
Measuring sequence frequency	200 Hz

Features

- Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- 3-wire, 15...30 VDC
- Analog output
- 0...10 V
- Cable connection

Wiring diagram



Functional principle

Inductive TURCK sensors with analog output accomplish simple control tasks. They provide a current, voltage or frequency signal proportional to the target's distance. The output signal is linear to the distance of the target over the entire sensing range.

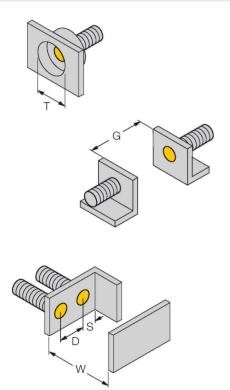


Technical data

Design	Threaded barrel, $M8 \times 1$
Dimensions	42 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF30
End cap	Plastic, PA12-GF30
Max. tightening torque housing nut	5 Nm
Electrical connection	Cable
Cable quality	Ø 4 mm, LifY-11Y, PUR, 2 m
Core cross-section	3 x 0.25 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	751 years acc. to SN 29500 (Ed. 99) 40 °C

Mounting instructions

Mounting instructions/Description



	Distance D	16 mm
	Distance W	4.5 mm
	Distance T	3 x B
	Distance S	12 mm
	Distance G	9 mm
	Diameter active area B	Ø 8 mm



Accessories



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

BST-08B

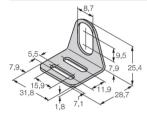
6947210

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



6945008

6945100

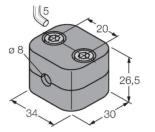


Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-08

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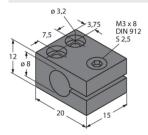


M3 **2**

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



69479



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