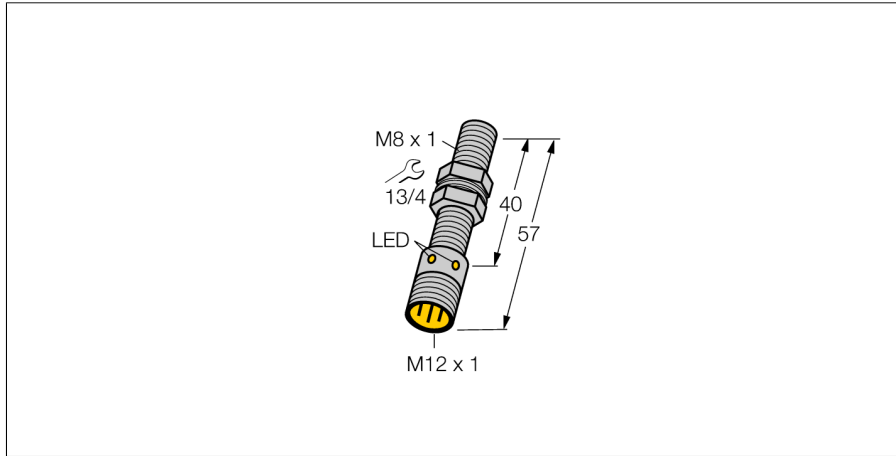


**Inductive sensor
BI1,5U-EGT08-AN6X-H1341**

Industrial
Automation



- Threaded barrel, M8 x 1
- Stainless steel, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- 3-wire DC, 10...30 VDC
- NO contact, NPN output
- Male M12 x 1

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multicoil system, *uprox®* sensors have distinct advantages over conventional sensors. They detect all metals at the same large switching distance and are resistant to magnetic fields.

Type code	BI1,5U-EGT08-AN6X-H1341
Ident no.	4600558
Rated operating distance Sn	1.5 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3...15 %
Ambient temperature	-30...+85 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, NPN
Protection class	☑
Switching frequency	2 kHz
Design	threaded barrel, M8 x 1
Dimensions	57 mm
Housing material	stainless steel, 1.4427 SO, PTFE-coated
Material active area	Plastic, PA, PTFE-coated
Max. tightening torque housing nut	10 Nm
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

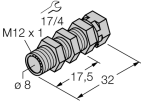
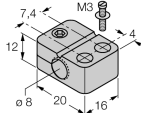
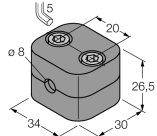
Inductive sensor
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Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn

Diameter of the active area B	Ø 8 mm
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Accessories

Type code	Ident no.	Description	Dimension drawing
QM-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 quick-mount brackets.	 <p>Technical drawing of a quick-mount bracket. It is a cylindrical component with a male thread of M12 x 1. The drawing shows a diameter of 8 mm (ø 8) and a total length of 32 mm. A specific section of the thread is dimensioned as 17.5 mm, and the diameter of the unthreaded section is 17.4 mm.</p>
BST-08B	6947210	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	 <p>Technical drawing of a fixing clamp. It is a rectangular component with a diameter of 8 mm (ø 8). The drawing shows a height of 12 mm and a width of 20 mm. A specific dimension of 7.4 mm is shown for the top edge. An M3 screw is shown passing through the top of the clamp. Other dimensions include 16 mm for the bottom edge and 4 mm for a small protrusion on the side.</p>
BSS-08	6901322	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	 <p>Technical drawing of a mounting bracket. It is a rectangular component with a diameter of 8 mm (ø 8). The drawing shows a height of 26.5 mm and a width of 34 mm. A specific dimension of 20 mm is shown for the top edge. A small protrusion on the top edge is dimensioned as 5 mm.</p>