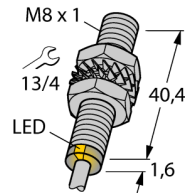


# Inductive sensor BI1.5-EG08-AD6X

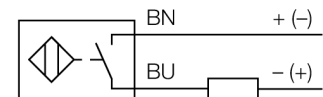
**TURCK**  
*works*

Industrial  
Automation



- Threaded barrel, M8 x 1
- Stainless steel, 1.4404
- DC 2-wire, 10...30 VDC
- NO contact
- 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.

<b>Type code</b>	BI1.5-EG08-AD6X
Ident-No.	4600204
Ident-No (TUSA)	S4600204
<b>Rated switching distance Sn</b>	1.5 mm
Mounting conditions	flush
Assured switching distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	1...15 %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10... 30VDC
Residual ripple	≤ 10 % U <sub>in</sub>
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I <sub>n</sub>	≤ 5 V
Smallest operating current I <sub>m</sub>	≥ 3 mA
Switching frequency	3 kHz
<b>Construction</b>	Threaded barrel, M8 x 1
Dimensions	42 mm
Housing material	stainless steel, 1.4427 SO
Material active area	plastic, PA
End cap	Plastic, PA12-GF30
Max. tightening torque housing nut	5 Nm
Connection	cable
Cable quality	4 mm, grey, LifYY, PVC, 2m
Cable cross section	2 x 0.25 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
IP Rating	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
<b>Switching state</b>	LED yellow

# Inductive sensor BI1.5-EG08-AD6X

**TURCK**  
*works*

Industrial  
Automation

---

Distance D	2 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                     $\varnothing$  8 mm

