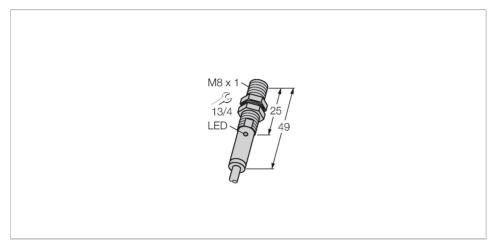


# BI1.5-EG08F-AP6X Inductive Sensor – Stainless Steel Front



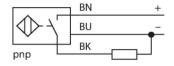
### Technical data

Туре	BI1.5-EG08F-AP6X
ID	4614626
General data	
Rated switching distance	1.5 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	≤ 10 % of full scale
Temperature drift	≤ ±20 %
Hysteresis	315 %
Electrical data	
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current	10 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I <sub>e</sub>	≤ 2 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.2 kHz

### **Features**

- ■Threaded barrel, M8 x 1
- Stainless steel, 1.4305
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP 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.

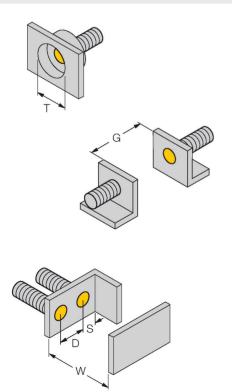


## Technical data

Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	49 mm
Housing material	Stainless steel, 1.4305 (AISI 303)
Active area material	Stainless steel, 1.4305 (AISI 303)
Max. tightening torque of housing nut	9 Nm
Electrical connection	Cable
Cable quality	Ø 4 mm, Gray, LifYY, PVC, 2 m
Core cross-section	3 x 0.25 mm <sup>2</sup>
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Switching state	LED, Yellow

# Mounting instructions

### Mounting instructions/Description



4.5	
4.5 mm	-
8 mm (Fe metal); 50 mm (non Fe- metal)	- - -
15 mm (Fe metal); 25 mm (non Fe- metal)	es reserve
35 mm	Jang
Ø 8 mm	nical c
Switching distance not reduced when flush mounted in ferrous metals	
ous metals the active m.	2023 14
mounting nuts used. the use of the nuts delivery.	BI1.5-EG08F-AP6X  11/07/2023 14-00   technical changes reserved
	50 mm (non Femetal) 15 mm (Fe metal); 25 mm (non Femetal) 35 mm 27 8 mm 28 mm 39 uced when flush 30 ous metals the active m. 31 mounting nuts used the use of the nuts



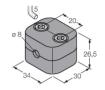
## Accessories

MW-08 6945008

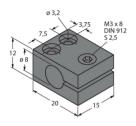
7,9 31,8 7,9 25,4 7,9 25,4 7,9 25,4 7,9 7,9 7,9 7,9 7,9 Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304) BSS-08

6901322

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



MBS80 69479



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