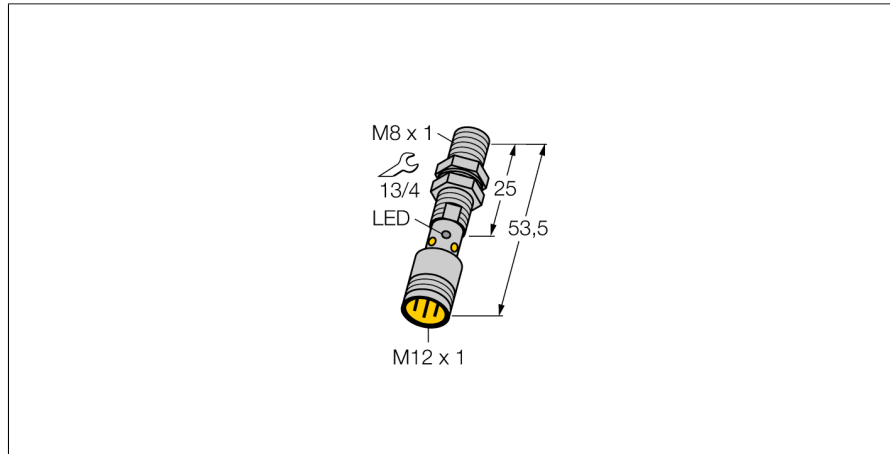
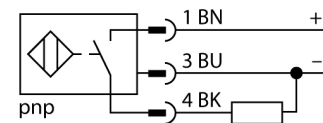


Inductive Sensor Stainless Steel Front BI1.5-EG08F-AP6X-H1341



- Threaded barrel, M8 x 1
- Stainless steel, 1.4305
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

Wiring Diagram



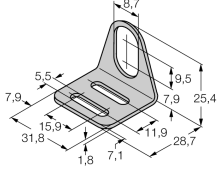
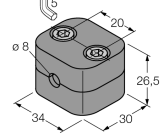
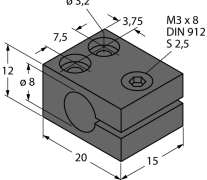
Functional principle

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.

Type	BI1.5-EG08F-AP6X-H1341
ID	4614629
General data	
Rated switching distance S_n	1.5 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 10\%$ of full scale
Temperature drift	$\leq \pm 20\%$
Hysteresis	3...15 %
Electrical data	
Operating voltage U_o	10...30 VDC
Ripple U_{rs}	$\leq 10\% U_{Bmax}$
DC rated operating current I_o	≤ 200 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_o	≤ 2 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.2 kHz
Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	53.3 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	Connector, M12 x 1
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

Accessories

Type code	Ident-No.		Dimension drawing
MW-08	6945008	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	 <p>Technical drawing of a U-shaped mounting bracket. Dimensions: 8.7 (width of the top flange), 9.5 (height of the top flange), 25.4 (total height), 7.9 (width of the base), 11.9 (width of the base), 28.7 (width of the base), 1.8 (thickness of the base), 7.1 (width of the base), 15.9 (width of the base), 31.8 (width of the base), 5.5 (width of the base), 7.9 (width of the base).</p>
BSS-08	6901322	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	 <p>Technical drawing of a cylindrical mounting clamp. Dimensions: 5 (height of the top flange), 20 (width of the top flange), 26.5 (total height), 34 (width of the base), 30 (width of the base), 8 (diameter of the hole).</p>
MBS80	69479	Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum	 <p>Technical drawing of a rectangular mounting block. Dimensions: 3.2 (width of the top flange), 3.75 (width of the top flange), 12 (height of the top flange), 7.5 (width of the top flange), 8 (diameter of the hole), 20 (width of the base), 15 (width of the base), 5 (height of the base), 2.5 (height of the base), 8 (diameter of the hole). Material: M3 x 8 DIN 912 S 2.5.</p>