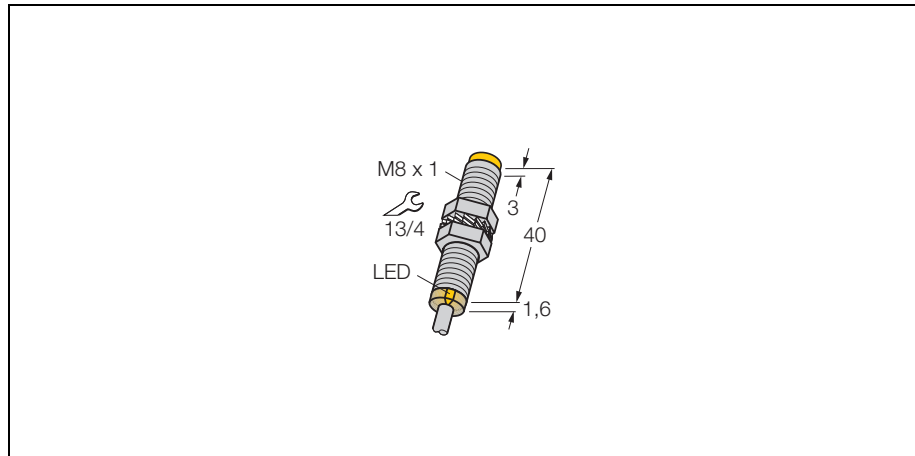


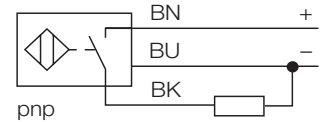
**inductive sensor**

**Ni3-EG08-AP6X**



- threaded barrel, M8 x 1
- stainless steel, 1.4404
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- cable connection

**Wiring diagram**



**Functional principle**

Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

<b>Type</b>	Ni3-EG08-AP6X
Ident-No.	4602740
<b>Rated operating distance Sn</b>	3 mm
Mounting condition	non-flush
Assured switching distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
<b>Operating voltage</b>	10... 30 VDC
Residual ripple	≤ 10 % U <sub>SS</sub>
DC rated operational current	≤ 150 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage dip at I <sub>e</sub>	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Switching frequency	≤ 3 kHz
<b>Housing</b>	threaded barrel, M8 x 1
Dimensions	41.6 mm
Housing material	metal, A4 1.4404 (AISI 316L)
Material active area	plastic, PA12-GF20
End cap	plastic, PP
Tightening torque of housing nut	10 Nm
Connection	cable
Cable quality	Ø 4, LifYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.25 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67

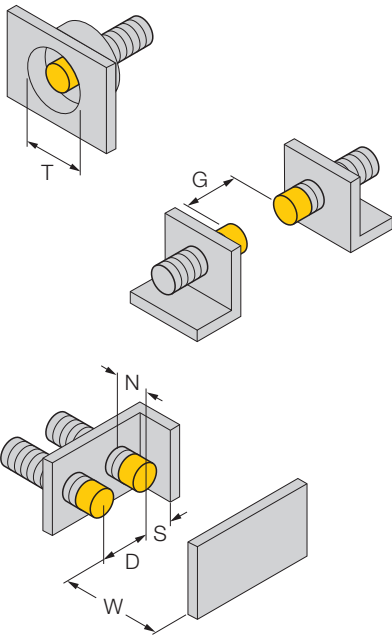
**inductive sensor**

**Ni3-EG08-AP6X**

Mounting instructions	minimum distances
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
Distance N	2 x Sn

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<b>Diameter of the active area B</b>	Ø 8 mm
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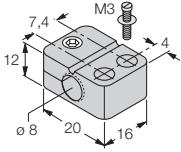
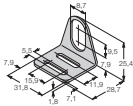

# inductive sensor

## Ni3-EG08-AP6X

**TURCK**

Industrial  
Automation

### Accessories

Type code	Ident-No.	Short text	Dimension drawing
BST-08B	6947210	fixing clamp with dead-stop; material: PA6	 <p>Technical drawing of a rectangular fixing clamp. Dimensions: 7.4 (width), 12 (height), 20 (length), 16 (depth). It features an M3 screw on top and a circular hole on the side.</p>
MW-08	6945008	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	 <p>Technical drawing of a U-shaped mounting bracket. Dimensions: 5.7 (height), 7.5 (width), 10.5 (width), 1.9 (width), 25.4 (width), 1.5 (width), 7.1 (width), 25.7 (width).</p>
BSS-08	6901322	fixing clamp; material: polypropylene	 <p>Technical drawing of a cylindrical fixing clamp. Dimensions: 25 (width), 25.5 (height), 25 (width), 25 (width).</p>