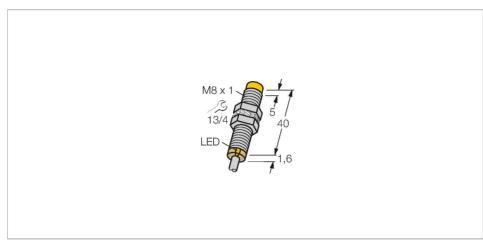


NI6U-EG08-AP6X Inductive Sensor – With Extended Switching Distance



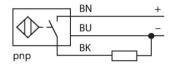
Technical data

Туре	NI6U-EG08-AP6X		
ID	4635800		
General data			
Rated switching distance	6 mm		
Mounting conditions	Non-flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ±10 %		
	≤ ± 20 %, ≤ 0 °C		
Hysteresis	315 %		
Electrical data			
Operating voltage U _B	1030 VDC		
Ripple U _{ss}	≤ 10 % U _{Bmax}		
DC rated operating current I _e	≤ 150 mA		
No-load current	≤ 15 mA		
Residual current	≤ 0.1 mA		
Isolation test voltage	0.5 kV		
Short-circuit protection	yes/Cyclic		
Voltage drop at I _e	≤ 1.8 V		
Wire break/reverse polarity protection	yes/Complete		
Output function	3-wire, NO contact, PNP		
DC field stability	200 mT		
AC field stability	200 mT _{ss}		
Insulation class			

Features

- ■Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- High switching frequency
- ■Integrated protection against predamping
- Little metal-free spaces
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

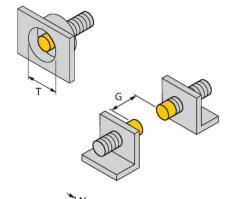


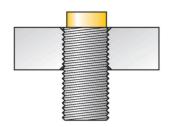
Technical data

Switching frequency	1 kHz		
Mechanical data			
Design	Threaded barrel, M8 x 1		
Dimensions	42 mm		
Housing material	Stainless steel, 1.4427 SO		
Active area material	Plastic		
End cap	Plastic, PP		
Max. tightening torque of housing nut	5 Nm		
Electrical connection	Cable		
Cable quality	Ø 4 mm, LifYY-11Y, PUR, 2 m		
Core cross-section	3 x 0.25 mm²		
Environmental conditions			
Ambient temperature	-30+85 °C		
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		

Mounting instructions

Mounting instructions/Description





Distance D	32 mm
Distance W	18 mm
Distance T	32 mm
Distance S	12 mm
Distance G	36 mm
Distance N	12 mm
Diameter active area B	Ø 8 mm

All non-flush mountable uprox®+ threaded barrel sensors can be screwed to the upper edge of the barrel. In this mounting position, the sensor operates safely with a 20 % reduced switching distance.



BST-08B

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Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



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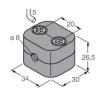
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Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



BSS-08 6901322

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



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

69479