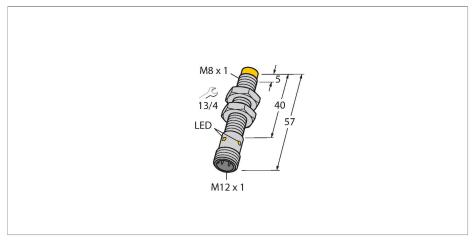


NI6U-EG08-AP6X-H1341 Inductive Sensor - With Extended Switching Distance



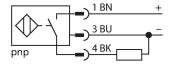
Technical data

Туре	NI6U-EG08-AP6X-H1341		
ID	4635802		
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 _o	≤ 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			
Switching frequency	1 kHz		
Mechanical data			
Design	Threaded barrel, M8 x 1		

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
- ■M12 x 1 male connector

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.

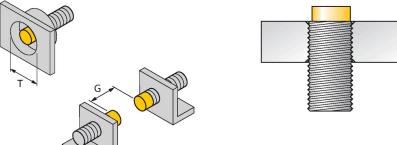


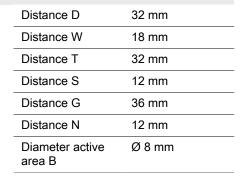
Technical data

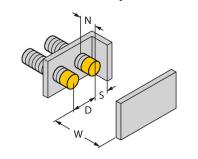
Dimensions	57 mm		
Housing material	Stainless steel, 1.4427 SO		
Active area material	Plastic		
Max. tightening torque of housing nut	5 Nm		
Electrical connection	Connector, M12 × 1		
Environmental conditions			
Ambient temperature	-30+85 °C		
Vibration resistance	55 Hz (1 mm)		
Shock resistance	30 g (11 ms)		
Protection class	IP68		
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C		
Switching state	LED, Yellow		

Mounting instructions









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.

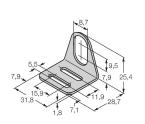
Accessories

BST-08B

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

6947210





MW08

MBS80

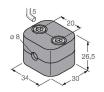
6945008

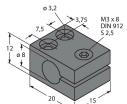
Mounting bracket for threaded

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





69479

Mounting clamp for smooth barrel

sensors; mounting block material: Anodized aluminum

Accessories

Dimension drawing	Туре	ID	
M12x1 1/214	RKH4-2/TFE	6935482	Connection cable, M12 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray; temperature range: -25+80 °C

RKH4-2/TFG 6934384

Connection cable, M12 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature range: -40...+105 °C