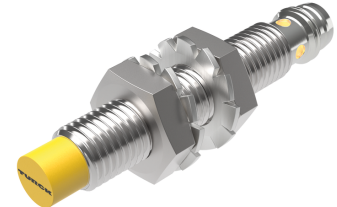
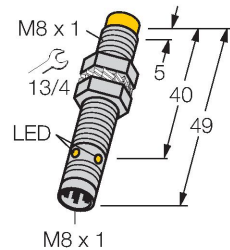


NI6U-EG08-AN6X-V1131

Inductive Sensor – With Extended Switching Distance



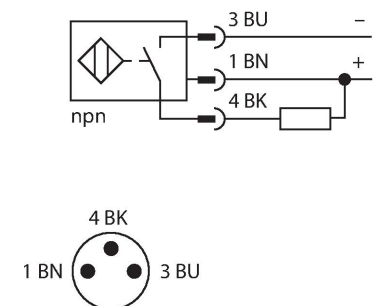
Technical data

Type	NI6U-EG08-AN6X-V1131
ID	4635804
General data	
Rated switching distance	6 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	$\leq \pm 10 \%$
	$\leq \pm 20 \%, \leq 0^\circ \text{C}$
Hysteresis	3...15 %
Electrical data	
Operating voltage U_B	10...30 VDC
Ripple U_{ss}	$\leq 10 \%$ U_{Bmax}
DC rated operating current I_o	$\leq 150 \text{ mA}$
No-load current	$\leq 15 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_o	$\leq 1.8 \text{ V}$
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, NPN
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, NPN output
- M8 x 1 male connector

Wiring diagram



Functional principle

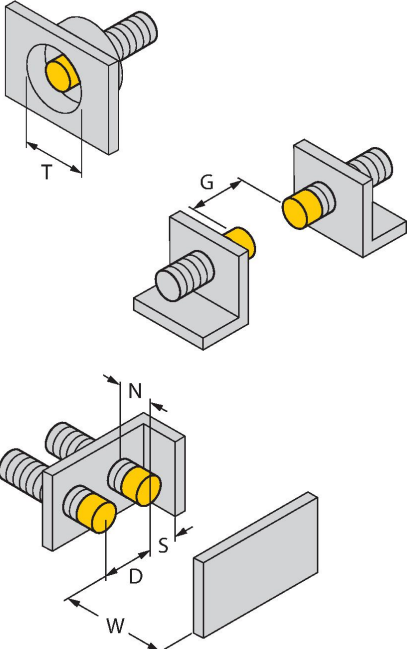
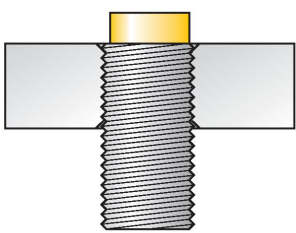
Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They

Technical data

excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Switching frequency	1 kHz
Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	49 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic
Max. tightening torque of housing nut	5 Nm
Electrical connection	Connector, M8 x 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

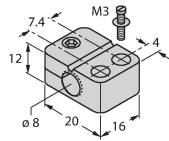
Mounting instructions/Description														
														
	<table> <tr> <td>Distance D</td><td>32 mm</td></tr> <tr> <td>Distance W</td><td>18 mm</td></tr> <tr> <td>Distance T</td><td>32 mm</td></tr> <tr> <td>Distance S</td><td>12 mm</td></tr> <tr> <td>Distance G</td><td>36 mm</td></tr> <tr> <td>Distance N</td><td>12 mm</td></tr> <tr> <td>Diameter active area B</td><td>Ø 8 mm</td></tr> </table>	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
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.

Accessories

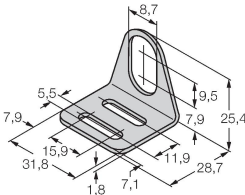
BST-08B 6947210

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



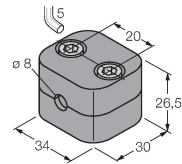
MW08 6945008

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



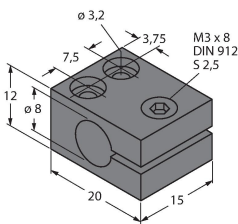
BSS-08 6901322

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



MBS80 69479

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



Wiring accessories

Dimension drawing	Type	ID
	PKGV3M-2/TEL	6625385

Connection cable, M8 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, black; cULus approval

