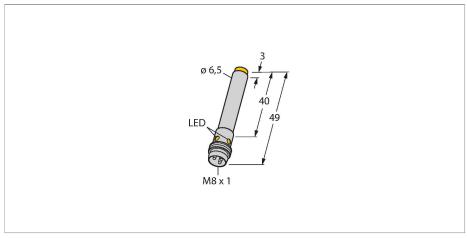


NI6U-EH6.5-AP6X-V1131 Inductive Sensor - With Extended Switching Distance



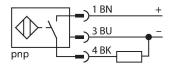
Technical data

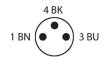
Туре	NI6U-EH6.5-AP6X-V1131		
ID	4631510		
General data			
Rated switching distance	6 mm		
Mounting conditions	Non-flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ±10 %		
Hysteresis	315 %		
Electrical data			
Operating voltage U _B	1030 VDC		
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			
Switching frequency	1 kHz		
Mechanical data			
Design	Smooth barrel, 6,5 mm		
Dimensions	49 mm		

Features

- ■Smooth barrel, Ø 6.5 mm
- 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
- ■M8 x 1 male connector

Wiring diagram





Functional principle

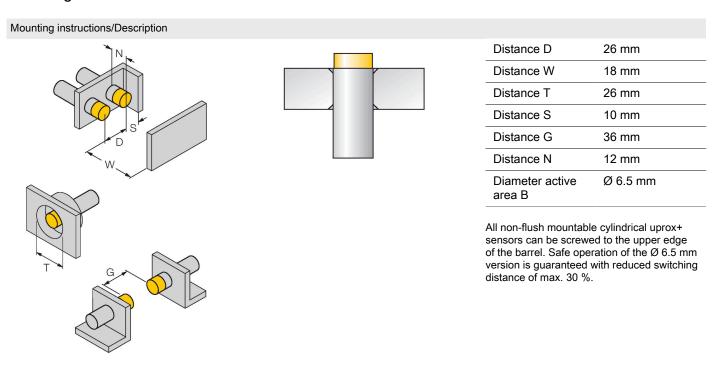
Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



Technical data

Housing material	Stainless steel, 1.4427 SO		
Active area material	Plastic, PA12-GF20		
Electrical connection	Connector, M8 × 1		
Environmental conditions			
Ambient temperature	-25+70 °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



Accessories

Dimension drawing	Туре	ID	
1 W8 x 1 25 9 0 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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