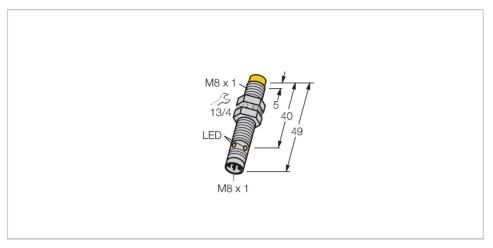


# NI6U-EG08-AP6X-V1131 Inductive Sensor – With Extended Switching Distance





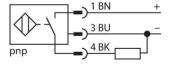
#### Technical data

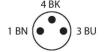
Туре	NI6U-EG08-AP6X-V1131
ID	4635801
General data	
Rated switching distance	6 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤±10 %
	≤ ± 20 %, ≤ 0 °C
Hysteresis	315 %
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>e</sub>	≤ 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 <sub>e</sub>	≤ 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 <sub>ss</sub>
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
- ■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



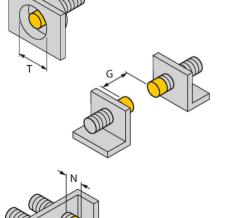
### Technical data

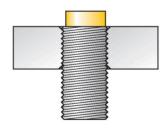
1 kHz Switching frequency Mechanical data Design Threaded barrel, M8 x 1 **Dimensions** 49 mm Housing material Stainless steel, 1.4427 SO Active area material Plastic Max. tightening torque of housing nut 5 Nm Electrical connection Connector, M8 × 1 **Environmental conditions** -30...+85 °C Ambient temperature Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) IP68 Protection class **MTTF** 874 years acc. to SN 29500 (Ed. 99) 40 Switching state LED, Yellow

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

## Mounting instructions

#### Mounting instructions/Description





N N N N N N N N N N N N N N N N N N N	

	32 mm	
Distance W	18 mm	_
Distance T	32 mm	_ved_
Distance S	12 mm	eser
Distance G	36 mm	des
Distance N	12 mm	han
Diameter active area B	Ø 8 mm	hnical
the sensor operates sa switching distance.	afely with a 20 % reduced	VIGU-EG08-AP6X-V11311 02/21/2025 13-31   technical changes reserved

## Accessories

BST-08B 6947210

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



8.7

MW08

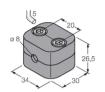
MBS80

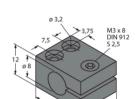
6945008

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





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

69479

## 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