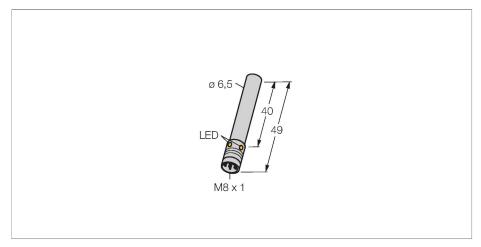


# BI2U-EH6.5-AP6X-V1131 Inductive Sensor – With Extended Switching Distance





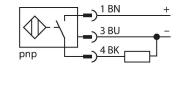
#### Technical data

42			
	4281160		
eneral data			
ated switching distance 2	mm		
ounting conditions FI	lush		
cured operating distance ≤	(0.81 × Sn) mm		
epeat accuracy ≤	2 % of full scale		
mperature drift ≤	±10 %		
esteresis 3.	15 %		
ectrical data			
perating voltage U <sub>B</sub>	030 VDC		
ople U <sub>ss</sub>	10 % U <sub>Bmax</sub>		
C rated operating current I <sub>e</sub> ≤	150 mA		
o-load current ≤	15 mA		
esidual current ≤	0.1 mA		
plation test voltage 0.	.5 kV		
ort-circuit protection ye	es/Cyclic		
ltage drop at I₀ ≤	1.8 V		
re break/reverse polarity protection ye	es/Complete		
tput function 3-	-wire, NO contact, PNP		
C field stability 20	00 mT		
C field stability 20	00 mT <sub>ss</sub>		
sulation class			
vitching frequency 2	kHz		
echanical data			
esign Sı	Smooth barrel, 6,5 mm		
mensions 49	9 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
Recessed mountable
DC 3-wire, 10...30 VDC
NO contact, PNP output
M8 x 1 male connector

## Wiring diagram





## Functional principle

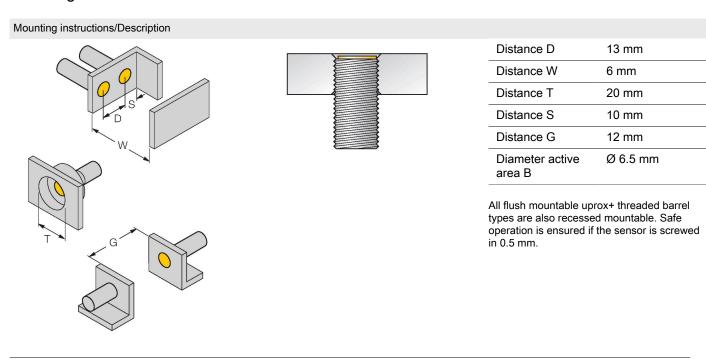
Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



## Technical data

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



## Accessories

Dimension drawing	Туре	ID	
	PKGV3M-2/TEL	6625385	Connection cable, M8 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m,
M8x1 /29			jacket material: PVC, black; cULus approval