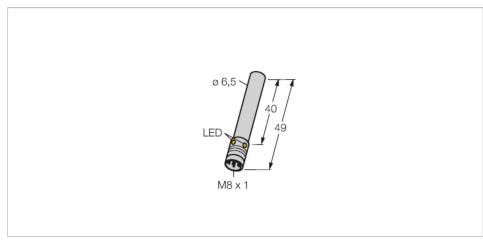


BI2U-EH6.5-AP6X-V1131 Inductive Sensor



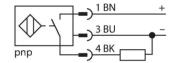
Technical data

T	DIGIL FLICE ADOV MAAGA
Type	BI2U-EH6.5-AP6X-V1131
Ident. no.	4281160
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	\leq (0.81 \times Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	315 %
Ambient temperature	-30+85 ℃
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 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 breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Insulation class	
Switching frequency	2 kHz
Design	Smooth barrel, 6.5 mm
Dimensions	49 mm
Housing material	Stainless steel, 1.4427 SO

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 detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*°+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

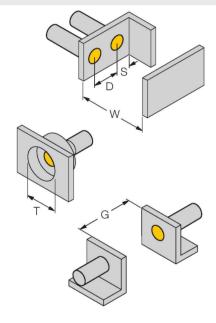


Technical data

Active area material	Plastic, PA12-GF20	
End cap	Plastic, PP	
Electrical connection	Connector, M8 × 1	
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



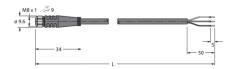


Distance D	13 mm
Distance W	6 mm
Distance T	20 mm
Distance S	10 mm
Distance G	12 mm
Diameter active area B	Ø 6.5 mm

All flush mountable *uprox*°+ threaded barrel types are also recessed mountable. Safe operation is ensured if the sensor is screwed in 0.5 mm.

Wiring accessories

Dimension drawing	Туре	ldent. no.
	PKGV3M-2/TFI	6625385



Connection cable, female M8, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com