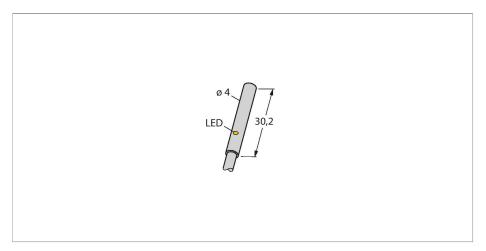


BI1U-EH04-AP6X Inductive Sensor





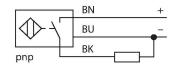
Туре	BI1U-EH04-AP6X
ID	4602112
General data	4002112
Rated switching distance	1 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
	≤ ± 20 %, ≤ 0 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _o	≤ 100 mA
No-load current	≤ 20 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}
Switching frequency	2 kHz
Mechanical data	
Design	Smooth barrel, 4 mm
Dimensions	30.2 mm



Features

- Smooth barrel, Ø 4 mm
 Stainless steel, 1.4427 SO
 Factor 1 for all metals
 Resistant to magnetic fields
- Large switching distance
- DC 3-wire, 10...30 VDC NO contact, PNP output Cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox3 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	
End cap	Plastic, PA12	
Electrical connection	Cable	
Cable quality	Ø 3 mm, LifY-11Y, PUR, 2 m	
Core cross-section	3 x 0.14 mm²	
Environmental conditions		
Ambient temperature	-25+70 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	

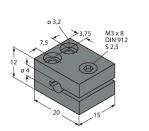
Mounting instructions

ounting instructions/Description		
W W W	Distance D	2 x B
	Distance W	3 x Sn
	Distance T	3 x B
	Distance S	1.5 x B
	Distance G	6 x Sn
	Diameter active area B	Ø 4 mm



Accessories

MBS40 69477



Fixing clamp; material mounting block: Anodized aluminium