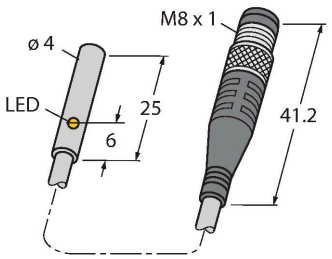
BI1U-EH04-AP6X-0.3-PSG3M
Inductive Sensor



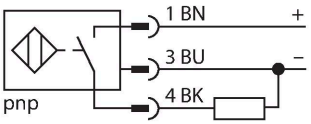
Technical data

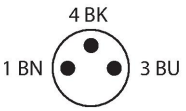
Type	BI1U-EH04-AP6X-0.3-PSG3M
Ident. no.	4602123
Rated switching distance	1 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ 0 °C
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 100 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
Switching frequency	2 kHz
Design	Smooth barrel, 4 mm
Dimensions	30 mm
Housing material	Stainless steel, 1.4427 SO

Features

- Smooth barrel, Ø 4 mm
- Stainless steel, 1.4427
- Factor 1 for all metals
- Resistant to magnetic fields
- Large switching distance
- 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. 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.

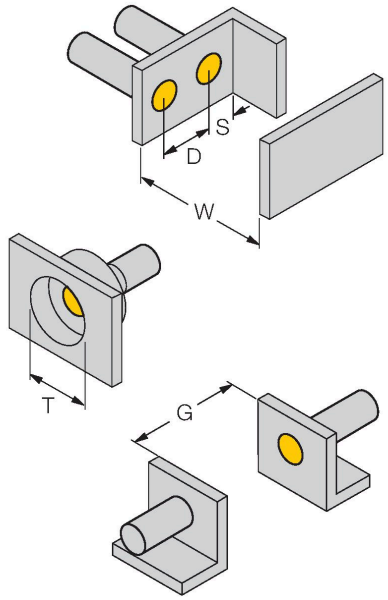
BI1U-EH04-AP6X-0.3-PSG3M| 09/09/2020 16-27 | technical changes reserved

Technical data

Active area material	Plastic, PA12-GF30
Material coupling nut	metal, CuZn, nickel-plated
Electrical connection	Connector, M8 × 1
Cable quality	Ø 3 mm, Gray, LifY-11Y, PUR, 0.3 m
Core cross-section	3 x 0.14 mm^2
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

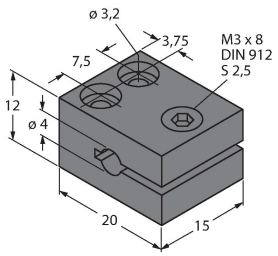
Mounting instructions/Description



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

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