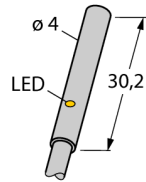


# Inductive sensor BI1-EH04-AP6X

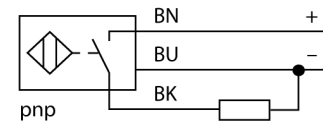
**TURCK**

Industrial  
Automation



- Smooth barrel, Ø 4 mm
- Stainless steel, 1.4427 SO
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

### Wiring diagram



### Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

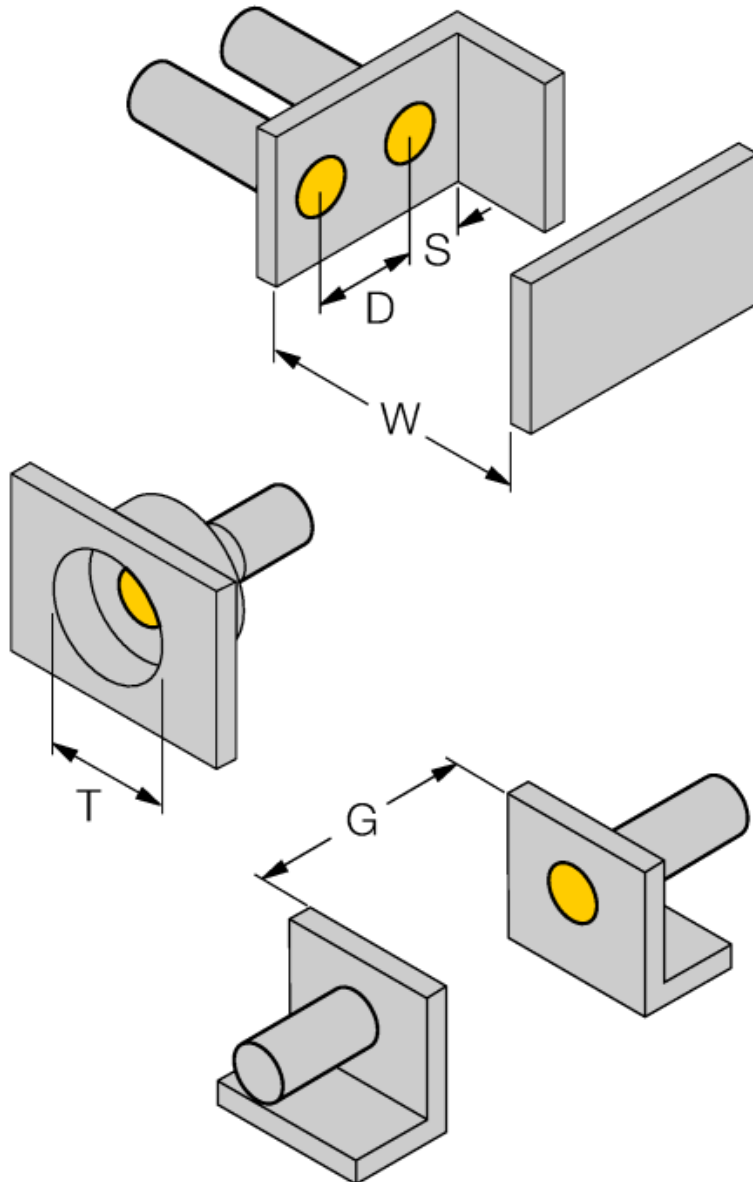
We offer special versions for temperatures of -60 °C up to +250 °C.

<b>Type code</b>	BI1-EH04-AP6X
Ident no.	4609540
<b>Rated operating distance Sn</b>	1 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 100 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I <sub>0</sub>	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	3 kHz
<b>Construction</b>	smooth barrel, 4 mm
Dimensions	30 mm
Housing material	stainless steel, 1.4427 SO
Material active area	plastic, PA
End cap	Plastic, PA12
Connection	cable
Cable quality	3 mm, LifY-11Y, PUR, 2m
Cable cross section	3 x 0.14 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
<b>Switching state</b>	LED yellow

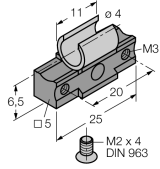
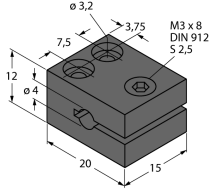
**Inductive sensor  
BI1-EH04-AP6X**

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 of the active area B                       $\varnothing$  4 mm



**Accessories**

Type code	Ident no.	Description	Design
BS 540	69475	Fixing clamp; material mounting block: Anodized aluminium; clamp sleeve: Steel	
MBS40	69477	Fixing clamp; material mounting block: Anodized aluminium	

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