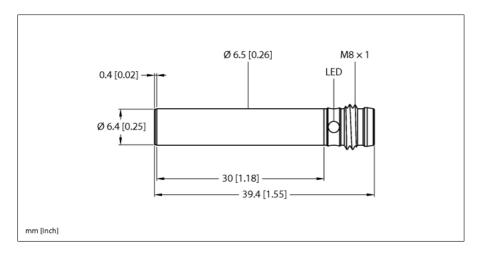


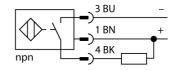
Inductive Sensor BI1.5-H6.5K-AN6X-V1131





- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M8 x 1 male connector

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.

ID 46108	

General data		
Rated switching distance Sn	1.5 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4	
Repeat accuracy	≤ 2 % of full scale	
Hysteresis	315 %	

Electrical data		
Operating voltage U _B	1030 VDC	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _e	≤ 150 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, NPN	
Switching frequency	3 kHz	

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Mechanical data			
Design	Smooth barrel, 6,5 mm		
Dimensions	39.4 mm		
Housing material	Stainless steel, 1.4427 SO		
Active area material	Plastic, PA12-GF30		
Electrical connection	Connector, M8 × 1		
Environmental conditions			
Ambient temperature	-25+70 °C		
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