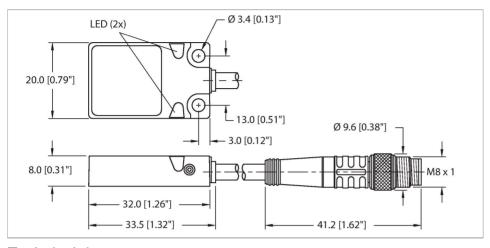


BI7-Q08-AP6X2-0.5-PSG3M Inductive Sensor – With Increased Switching Distance





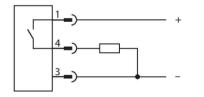
Technical data

Type	BI7-Q08-AP6X2-0.5-PSG3M
ID	1601690
General data	
Rated switching distance	7 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; AI = 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	≤ 200 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 break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.5 kHz
Mechanical data	
Design	Rectangular, Q08

Features

- Rectangular, height 8 mm
- Active face on top
- Metal, Zamak, nickel-plated
- Large sensing range
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- Pigtail with male end M8 x 1

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.

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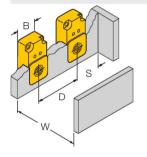


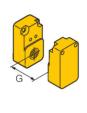
Technical data

32 x 20 x 8 mm
Metal, Zamak, Nickel Plated
Plastic, PP, yellow
Cable with connector, M8 × 1
Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.5 m
Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
3 x 0.14 mm²
-25+70 °C
55 Hz (1 mm)
30 g (11 ms)
IP68
2283 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Green

Mounting instructions

Mounting instructions/Description





Distance D	40 mm
Distance W	24 mm
Distance S	1 × B
Distance G	48 mm
Width active area B	20 mm