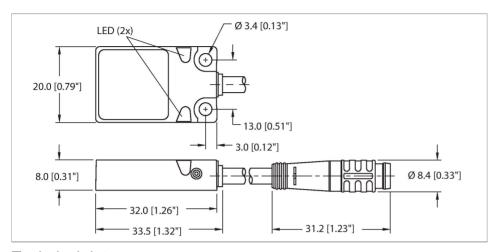


# BI7-Q08-AN6X2-0.2-PSG3 Inductive Sensor – With Increased Switching Distance





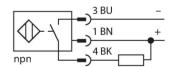
#### Technical data

Туре	BI7-Q08-AN6X2-0.2-PSG3
ID	1601687
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 <sub>в</sub>	1030 VDC
Ripple U <sub>ss</sub>	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I <sub>e</sub>	≤ 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 <sub>e</sub>	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, NPN
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, NPN 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.

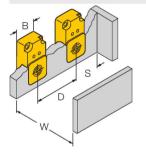


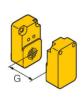
## Technical data

32 x 20 x 8 mm
Metal, Zamak, Nickel Plated
Plastic, PP, yellow
Cable with connector, Ø 8 mm
Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.2 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
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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