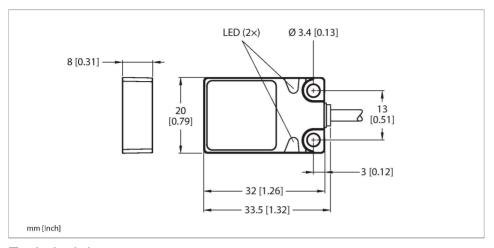


# BI7-Q08-AP6X2 7M Inductive Sensor – With Increased Switching Distance





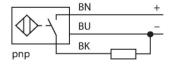
Туре	BI7-Q08-AP6X2 7M
ID	1601607
General data	
Rated switching distance	7 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Hysteresis	315 %
Electrical data	
Operating voltage U <sub>B</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, 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
- 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.

BI7-Q08-AP6X2 7M| 02/21/2025 13-39 | technical changes reserved

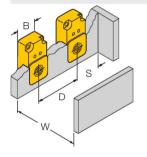


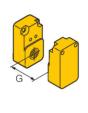
## Technical data

- X - V X V X X X X X X X X X X X X X X
Metal, Zamak, Nickel Plated
Plastic, PP, yellow
Cable
Ø 3 mm, Gray, Lif9Y-11Y, PUR, 7 m
Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
3 x 0.14 mm <sup>2</sup>
-25+70 °C
55 Hz (1 mm)
30 g (11 ms)
IP68
2283 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Green
LLD, 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