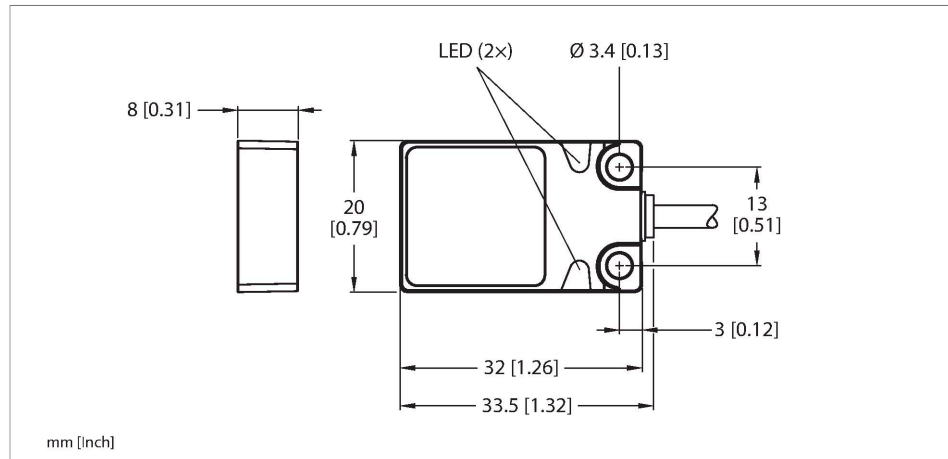


BI8U-Q08-AP6X2
Inductive Sensor – With Extended Switching Distance



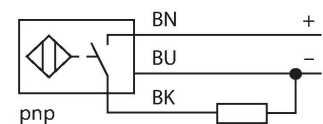
Technical data

| | |
|---|--------------------------|
| Type | BI8U-Q08-AP6X2 |
| ID | 1662006 |
| General data | |
| Rated switching distance | 8 mm |
| Mounting conditions | Flush |
| Secured operating distance | ≤ (0.81 × Sn) mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ±10 % |
| Hysteresis | 3...15 % |
| Electrical data | |
| Operating voltage U _B | 10...30 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 |
| DC field stability | 300 mT |
| AC field stability | 300 mT _{ss} |
| Insulation class | □ |
| Switching frequency | 0.25 kHz |

Features

- Rectangular, height 8 mm
- Active face on top
- Metal, Zamak, nickel-plated
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Mountable on metal
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Technical data

| Mechanical data | |
|--------------------------|---|
| Design | Rectangular, Q08 |
| Dimensions | 32 x 20 x 8 mm |
| Housing material | Metal, Zamak, Nickel Plated |
| Active area material | Plastic, PP, yellow |
| Electrical connection | Cable |
| Cable quality | Ø 3 mm, Gray, Lif9Y-11Y, PUR, 2 m |
| | Suited for E-ChainSystems® acc. to manufacturers declaration H1063M |
| Core cross-section | 3 x 0.14 mm ² |
| Environmental conditions | |
| Ambient temperature | -25...+70 °C |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP68 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication | LED, Green |
| Switching state | LED, Yellow |

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 |
| | | |

B18U-Q08-AP6X2 | 02/21/2025 13-22 | technical changes reserved