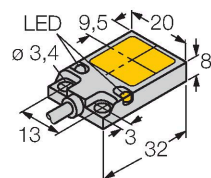


# BI8U-Q08-AN6X2

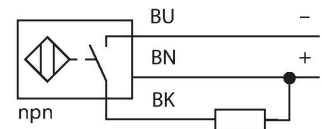
## Inductive sensor



### Features

- Rectangular, height 8 mm
- Active face on top
- Metall, zinc die casting
- 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, NPN output
- Cable connection

### Wiring diagram



### Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*<sup>®</sup> sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

### Technical data

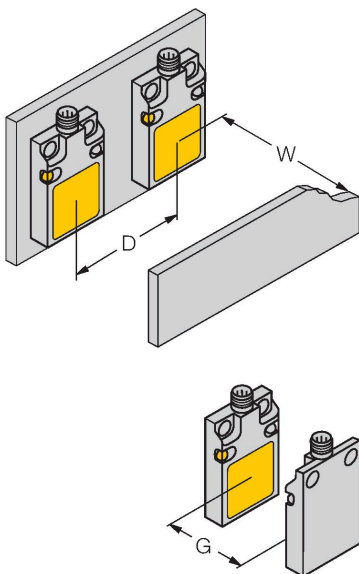
<b>Type</b>	BI8U-Q08-AN6X2
Ident. no.	1662007
Rated switching distance	8 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x S <sub>n</sub> ) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...30 VDC
Residual ripple	≤ 10 % U <sub>is</sub>
DC rated operational current	≤ 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	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, NPN
Protection class	□
Switching frequency	0.25 kHz
<b>Design</b>	Rectangular,Q08
Dimensions	32 x 20 x 8 mm
Housing material	Metal, GD-Zn, Nickel-plated
Active area material	Plastic, PP, yellow
Electrical connection	Cable
Cable quality	Ø 4 mm, LifY-11Y, PUR, 2 m

Technical data

Core cross-section	3 x 0.25 mm <sup>2</sup>
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 G	48 mm
Width active area B	17 mm