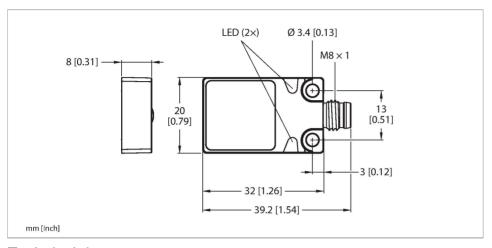


# BI5U-Q08-AP6X2-V1131 Inductive Sensor



#### Technical data

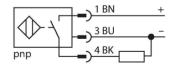
Туре	BI5U-Q08-AP6X2-V1131
ID	1608900
General data	
Rated switching distance	5 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U <sub>ss</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 I <sub>e</sub>	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
DC field stability	300 mT
AC field stability	$300 \text{ mT}_{ss}$
Switching frequency	0.25 kHz

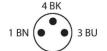


#### **Features**

- Rectangular, height 8 mm
- Active face on top
- Metal, Zamak, nickel-plated
- Factor 1 for all metals
- ■Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- Male connector M8 × 1/Ø 8 mm

## Wiring diagram





## Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox Factor 1 sensors have significant advantages due to their patented ferrite-coreless multi-coil system. They detect all



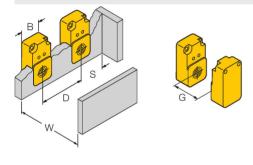
#### Technical data

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	Connector, M8 × 1/Ø 8 mm
Environmental conditions	
Ambient temperature	-30+85 °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

metals at the same large switching distance and are resistant to magnetic fields.

## Mounting instructions

#### Mounting instructions/Description



Distance D	40 mm
Distance W	15 mm
Distance S	1 × B
Distance G	30 mm
Width active area B	20 mm

## Wiring accessories

Dimension drawing	Туре	ID
	PKG3S-2/TEL	6627330



Connection cable, Ø 8-mm female connector, snap-on, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval