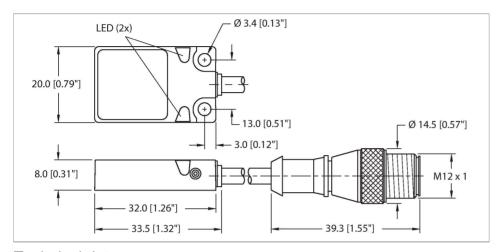


BI5U-Q08-AP6X2-0.2-RS4T Inductive Sensor





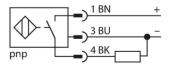
Туре	BI5U-Q08-AP6X2-0.2-RS4T
ID	1608990
General data	
Rated switching distance	5 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _o	≤ 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
- ■Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- Pigtail with male end M12 x 1

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 ferritecoreless multi-coil system. They detect all



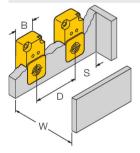
Technical data

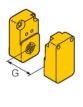
Mechanical data Design Rectangular, Q08 **Dimensions** 32 x 20 x 8 mm Housing material Metal, Zamak, Nickel Plated Active area material Plastic, PP, yellow Material coupling nut metal, CuZn Electrical connection Cable with connector, M12 × 1 Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.2 m Cable quality Suited for E-ChainSystems® acc. to manufacturers declaration H1063M Core cross-section 3 x 0.14 mm² **Environmental conditions** -30...+85 °C Ambient temperature Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) IP68 Protection class MTTF 874 years acc. to SN 29500 (Ed. 99) 40 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