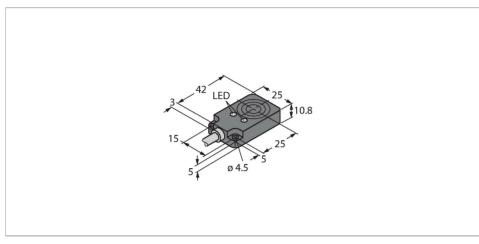


BI8U-Q10-AP6X2 **Inductive Sensor**



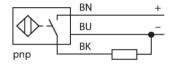
Technical data

Туре	BI8U-Q10-AP6X2
ID	1662001
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 %
	≤ ± 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 _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	

Features

- Rectangular, height 10.8 mm
- Active face on top
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■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 Factor 1 sensors have significant advantages due to their patented ferriteadvantages due to their patented ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

Page 13-25 13-25 13-27 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717,707 | 20,717, coreless multi-coil system. They detect all

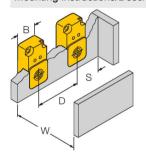


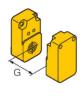
Technical data

Switching frequency	0.25 kHz
Mechanical data	
Design	Rectangular, Q10
Dimensions	42 x 25 x 10.8 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	PBT-GF30-V0
Electrical connection	Cable
Cable quality	Ø 4 mm, LifYY-11Y, PUR, 2 m
Core cross-section	3 x 0.25 mm ²
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
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Mounting instructions

Mounting instructions/Description





Distance D	2 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn
Width active area B	25 mm