

# BI8U-Q10-AP6X2-V1131 Inductive Sensor - With Increased Switching Distance



### **Technical data**

Туре	BI8U-Q10-AP6X2-V1131		
ldent. no.	1662002		
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 %		
Ambient temperature	-30+85 °C		
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		
Insulation class			
Switching frequency	0.25 kHz		
Design	Rectangular, Q10		
Dimensions	42 x 25 x 10.8 mm		

### 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 M8 x 1 male connector

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



## Technical data

Housing material	Plastic, PBT-GF30-V0		
Active area material	PBT-GF30-V0		
Electrical connection	Connector, M8 × 1		
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		
Switching state	LED, Yellow		

# Mounting instructions



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

# Wiring accessories

Dimension drawing	Туре	ldent. no.	
M8x1 ø96	PKG3M-2/TEL	6625058	Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and gualities
	-		available, see www.turck.com