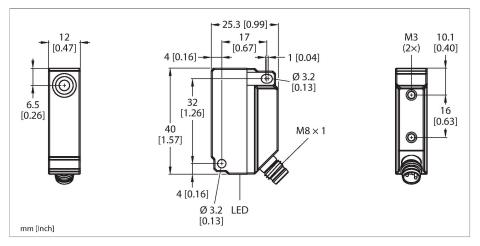


BI5U-Q12-AN6X2-V1131 Inductive Sensor – With Extended Switching Distance





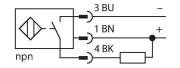
Technical data

Туре	BI5U-Q12-AN6X2-V1131	
ID	1635525	
General data		
Rated switching distance	5 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
Hysteresis	315 %	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	≤ 10 % U _{ss}	
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 _e	≤ 1.8 V	
Wire breakage/Reverse polarity protection	yes / Complete	
Output function	3-wire, NO contact, NPN	
DC field stability	300 mT	
AC field stability	300 mT _{ss}	
Switching frequency	1 kHz	
Mechanical data		
Design	Rectangular, Q12	
Dimensions	40 x 26 x 12 mm	

Features

- Rectangular, height 12mm
- Active face, lateral
- ■Plastic, PA12-GF30
- 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
- ■M8 x 1 male connector

Wiring diagram





Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

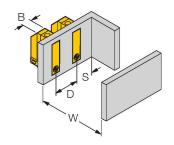


Technical data

Housing material	Plastic, PA12-GF30		
Active area material	PA12-GF30		
Electrical connection	Connector, M8 × 1		
Environmental conditions			
Ambient temperature	-25+70 °C		
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 °C		
Power-on indication	LED, Green		
Switching state	LED, Yellow		

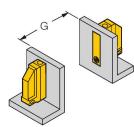
Mounting instructions

Mounting instructions/Description





Distance D	48 mm
Distance W	25 mm
Distance S	12 mm
Distance G	50 mm
Width active area B	12 mm



The sensors can be mounted directly side by side if a sensor with offset oscillation frequency Bi5U-Q12.../F2 is used.

Accessories

Dimension drawing	Туре	ID	
	PKG3M-2/TEL	6625058	Connection cable, M8 fe
			connector straight 3-ni



Connection cable, M8 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval