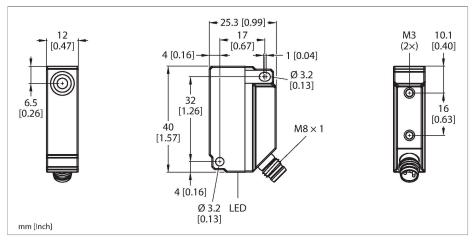


BI5U-Q12-AN6X2-V1131 Inductive Sensor – With Extended Switching Distance





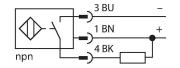
Technical data

Type	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 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, 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		
Housing material	Plastic, PA12-GF30		

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.

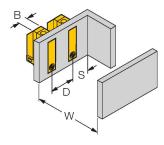


Technical data

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)		
Protection class	IP68		
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C		
Power-on indication	LED, Green		
Switching state	LED, Yellow		

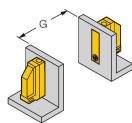
Mounting instructions

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 female
			connector, straight, 3-pin, cable leng



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