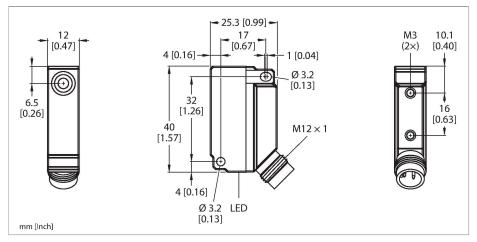


BI5U-Q12-AN6X2-H1141 Inductive Sensor – With Extended Switching Distance





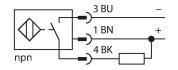
Technical data

| Туре | BI5U-Q12-AN6X2-H1141 |
|---|--------------------------|
| ID | 1635527 |
| 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
- ■M12 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.

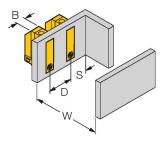


Technical data

| Active area material | PA12-GF30 | |
|--------------------------|---|--|
| Electrical connection | Connector, M12 × 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 | |

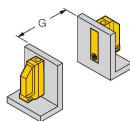
Mounting instructions

Mounting instructions/Description





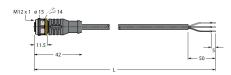
| Distance D | 48 mm |
|---------------------|-------|
| Distance W | 25 mm |
| Distance S | 12 mm |
| Distance G | 50 mm |
| Width active area B | 12 mm |



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 |
|-------------------|-------------|---------|
| | RKC4T-2/TEL | 6625010 |



Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval