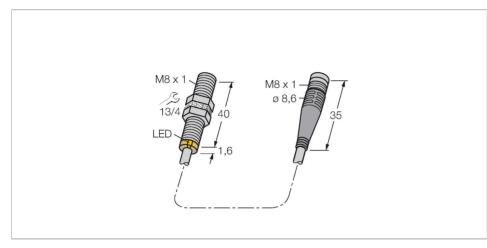


BI2U-EG08-AP6X-2-PSG3 Inductive Sensor – With Extended Switching Distance



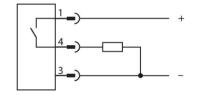
Technical data

| Туре | BI2U-EG08-AP6X-2-PSG3 |
|-------------------------------------------|-------------------------------|
| ID | 46020002 |
| General data | |
| Rated switching distance | 2 mm |
| Mounting conditions | Flush |
| Secured operating distance | ≤ (0.81 × Sn) mm |
| Repeat accuracy | ≤ 2 % of full scale |
| | ≤ ± 20 %, ≤ -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 _o | ≤ 150 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。 | ≤ 1.8 V |
| Wire break/reverse polarity protection | yes/Complete |
| Output function | 3-wire, NO contact, PNP |
| DC field stability | 200 mT |
| AC field stability | 200 mT _{ss} |
| Insulation class | |
| Switching frequency | 1 kHz |
| | |

Features

- ■Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Large switching distance
- High switching frequency
- Recessed mountable
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- Pigtail M8 x 1 with snap-lock 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.

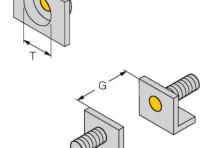


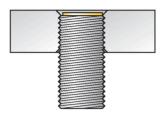
Technical data

| Mechanical data | |
|---------------------------------------|-------------------------------------------|
| Design | Threaded barrel, M8 x 1 |
| Dimensions | 42 mm |
| Housing material | Stainless steel, 1.4427 SO |
| Active area material | Plastic |
| End cap | Plastic, PA12-GF30 |
| Max. tightening torque of housing nut | 5 Nm |
| Electrical connection | Cable with connector, M8 × 1 |
| Cable quality | Ø 4 mm, LifY-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 | IP68 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Switching state | LED, Yellow |

Mounting instructions

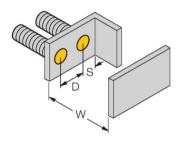
Mounting instructions/Description





| Distance D | 2 x B |
|------------------------|---------|
| Distance W | 3 x Sn |
| Distance T | 3 x B |
| Distance S | 1.5 x B |
| Distance G | 6 x Sn |
| Diameter active area B | Ø 8 mm |

All flush-mountable uprox+ threaded barrel types can also be mounted recessed. Safe operation is ensured if it is mounted recessed by half a screw turn.



Accessories

QM-08 6945100



Quick-mount bracket with deadstop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quickmount brackets.



6947210

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



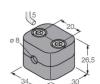
BSS-08 6901322

8,7 7,9 15,9 31,8 1,9 11,9 28,7

MW08

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

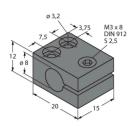
6945008



Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene



MBS80 69479



Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum