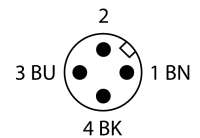
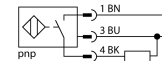


- Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

Wiring Diagram



Functional principle

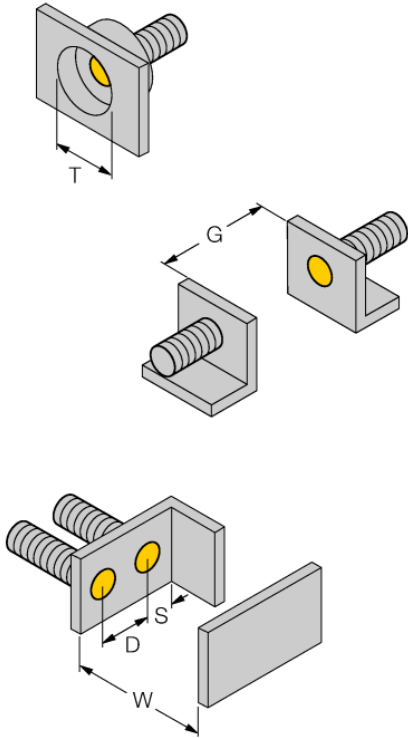
Inductive sensors detect metal objects contactless and wear-free. *uprox®* Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

| | |
|---|---|
| Type designation | BI1.5U-EG08-AP6X-H1341 |
| Ident no. | 4600540 |
| Rated switching distance Sn | 1.5 mm |
| Mounting conditions | Flush |
| Secured operating distance | ≤ (0,81 x Sn) mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ± 10 % |
| Hysteresis | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| Ambient temperature | 3...15 % -30...+85 °C |
| Operating voltage | 10...30 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 150 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Isolation test voltage | ≤ 0.5 kV |
| Short-circuit protection | yes/ Cyclic |
| Voltage drop at I ₀ | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes/ Complete |
| Output function | 3-wire, NO contact, PNP |
| Reverse polarity protection | Complete |
| Protection class | ☐ |
| Switching frequency | 2 kHz |
| Design | Threaded barrel, M8 x 1 |
| Dimensions | 57 mm |
| Housing material | Stainless steel, 1.4427 SO |
| Active area material | Plastic, PA12-GF30 |
| Max. tightening torque housing nut | 5 Nm |
| Electrical connection | Connector, M12 x 1 |
| 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 |

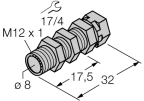
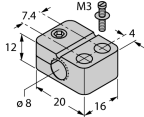
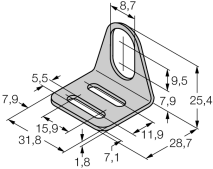
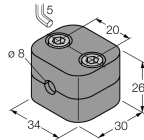
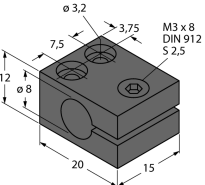
**Inductive sensor
BI1.5U-EG08-AP6X-H1341**

| | |
|------------|---------|
| 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 \varnothing 8 mm



Accessories

| Type code | Ident no. | Description | |
|-----------|-----------|--|---|
| QM-08 | 6945100 | Quick-mount bracket with dead-stop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quick-mount brackets. |  |
| BST-08B | 6947210 | Fixing clamp for threaded barrel devices, with dead-stop; material: PA6 |  |
| MW-08 | 6945008 | Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304) |  |
| BSS-08 | 6901322 | Mounting bracket for smooth and threaded barrel devices; material: Polypropylene |  |
| MBS80 | 69479 | Mounting bracket for threaded barrel devices; material mounting block: Anodized aluminium |  |

Wiring accessories

| Type code | Ident no. | Description | |
|------------|-----------|--|--|
| RKH4-2/TFE | 6935482 | Connection cable, M12 connector, female, straight, 3-pin, cable length: 2 m, sheath material: PVC, grey; temperature range: -25...+80 °C (in resting state), 0...+80 °C (in motion); other cable lengths and types available, see www.turck.com | |
| RKH4-2/TFG | 6934384 | Connection cable, M12 connector, female, straight, 3-pin, cable length: 2 m, sheath material: TPE, grey; temperature range: -40...+105 °C (in resting state), -25...+105 °C (in motion); other cable lengths and types available, see www.turck.com | |