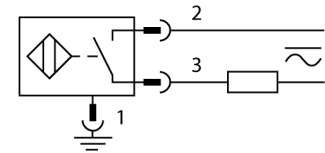


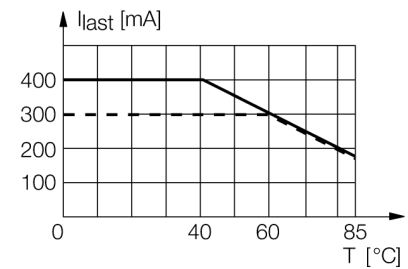
- Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- AC 2-wire, 20...250 VDC
- DC 2-wire, 10...300 VDC
- NO contact
- 1/2" male connector

Wiring Diagram



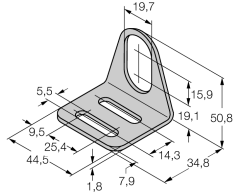
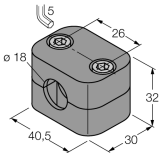
Functional principle

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 | BI5U-G18-ADZ30X2-B3331 |
| Ident no. | 4281213 |
| Rated switching distance S_n | 5 mm |
| Mounting conditions | Flush |
| Secured operating distance | ≤ (0,81 x S _n) 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 | 20...250VAC |
| Operating voltage | 10...300 VDC |
| AC rated operational current | ≤ 400 mA |
| DC rated operational current | ≤ 300 mA |
| Frequency | ≥ 50...≤ 60 Hz |
| Residual current | ≤ 1.7 mA |
| Isolation test voltage | ≤ 1.5 kV |
| Surge current | ≤ 3 A (≤ 20 ms max. 5 Hz) |
| Short-circuit protection | yes/ Latching |
| Voltage drop at I _s | ≤ 6 V |
| Wire breakage/Reverse polarity protection | yes/ Complete |
| Output function | 2-wire, NO contact |
| Reverse polarity protection | Complete |
| Smallest operating current I _m | ≥ 3 mA |
| Switching frequency | 0.01 kHz |
| Design | Threaded barrel, M18 x 1 |
| Dimensions | 71 mm |
| Housing material | Metal, CuZn, Chrome-plated |
| Active area material | Plastic, PBT-GF30 |
| Max. tightening torque housing nut | 25 Nm |
| Electrical connection | Connector, 1/2" |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication | LED green |
| Switching state | LED yellow |

Accessories

| Type code | Ident no. | Description | |
|-----------|-----------|--|---|
| MW-18 | 6945004 | Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304) |  |
| BSS-18 | 6901320 | Mounting bracket for smooth and threaded barrel devices; material: Polypropylene |  |