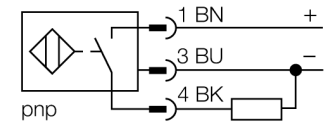


- Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- High switching distance
- High switching frequency
- Integrated protection against pre-attenuation
- Little metal-free spaces
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Male M12 x 1

| | |
|---|---|
| Type code | NI6U-EG08-AP6X-H1341 |
| Ident no. | 4635802 |
| Rated operating distance Sn | 6 mm |
| Mounting condition | non-flush |
| Assured sensing range | ≤ (0,81 x Sn) mm |
| Repeatability | ≤ 2 % of full scale |
| Temperature drift | 10 % |
| | ≤ ± 20 %, ≤ 0 °C |
| Hysteresis | 3...15 % |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 10...30VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 150 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Rated insulation 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 |
| Protection class | ☐ |
| Switching frequency | 1 kHz |
| Design | threaded barrel, M8 x 1 |
| Dimensions | 57 mm |
| Housing material | stainless steel, 1.4427 SO |
| Material active area | Plastic, PA |
| Max. tightening torque housing nut | 10 Nm |
| Connection | male, 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 |

Wiring diagram

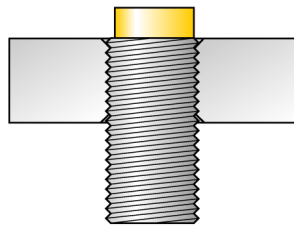


Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, uprox®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

| | |
|------------|-------|
| Distance D | 32 mm |
| Distance W | 18 mm |
| Distance T | 32 mm |
| Distance S | 12 mm |
| Distance G | 36 mm |
| Distance N | 12 mm |

Diameter of the active area B \varnothing 8 mm



All non-flush mountable *uprox⁺* threaded barrel sensors can be screwed to the upper edge of the barrel. Thus safe operation is guaranteed with a reduced switching distance of max. 20 %.

Accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|--|-------------------|
| 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 | |

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|--------------|-----------|-------------|-------------------|
| RKCV4T-2/TEL | 6626900 | | |