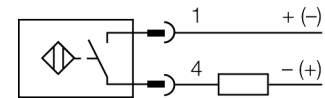


- Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Resistant to magnetic fields
- 2-wire DC, 10...65 VDC
- NO contact
- Male M12 x 1

Wiring diagram



| | |
|---|---|
| Type code | Ni10U-M18M-AD4X-H1144 |
| Ident no. | 4405069 |
| Rated operating distance Sn | 10 mm |
| Mounting condition | non-flush |
| Assured sensing range | ≤ (0,81 x Sn) mm |
| Repeatability | ≤ 2 % of full scale |
| Temperature drift | 10 % |
| | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| Hysteresis | 3...20 % |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 10...65VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 100 mA |
| Residual current | ≤ 0.8 mA |
| Rated insulation voltage | ≤ 0.5 kV |
| Short-circuit protection | yes/ cyclic |
| Voltage drop at I _s | ≤ 5 V |
| Smallest operating current I _m | ≤ 3 mA |
| Switching frequency | 0.01 kHz |
| Design | threaded barrel, M18 x 1 |
| Dimensions | 61.5 mm |
| Housing material | metal, CuZn, chrome-plated |
| Material active area | Plastic, LCP |
| Max. tightening torque housing nut | 25 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 |

Functional principle

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

| | |
|------------|-------|
| Distance D | 54 mm |
| Distance W | 30 mm |
| Distance T | 54 mm |
| Distance S | 27 mm |
| Distance G | 60 mm |
| Distance N | 20 mm |

Diameter of the active area B \varnothing 18 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 %.

When installed in an aperture plate a distance of X = 70 mm must be observed.

Isolating switching amplifiers can be applied because uprox®+ 2-wire DC sensors work with 8 VDC low operating voltage (limited load current).

If the sensors are operated with the Turck remote I/O fieldbus system BL20, wire-break and short-circuit events are immediately detected. For this purpose connected the sensor to the BL20-4DI-NAMUR slice.

Accessories

| Type code | Ident no. | Description | Dimension drawing |
|----------------|-----------|---|-------------------|
| BL20-4DI-NAMUR | 6827212 | 4 digital inputs acc. to EN 60947-5-6. For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors. | |
| 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 | |

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|-------------|-----------|--|-------------------|
| RKC4T-2/TEL | 6625010 | Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com | |