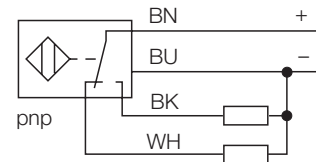


- threaded barrel, M18 x 1
- chrome-plated brass
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 4-wire DC, 10..0.65 VDC
- change-over, pnp output
- cable connection

Wiring diagram



Function principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

| | |
|---|-------------------------------|
| Type | Bi5U-M18M-VP4X |
| Ident-No. | 1581201 |
| Rated operating distance Sn | 5 mm |
| Mounting condition | flush |
| Assured switching distance | ≤ (0,81 x Sn) mm |
| Repetition accuracy | ≤ 2 % |
| Temperature drift | ≤ ± 10 % |
| Hysteresis | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| ambient temperature | 3... 15 % -30 ... + 85 °C |
| Operating voltage | 10... 65 V DC |
| Residual ripple | ≤ 10 % U _{SS} |
| DC rated operational current | ≤ 200 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 dip at I _e | ≤ 1.8 V |
| Wire breakage / reverse polarity protection | yes / complete |
| Output function | 4-wire, change-over, pnp |
| Insulation class | □ |
| Switching frequency | ≤ 2.5 kHz |
| Housing style | threaded barrel; M18 x 1 |
| Dimensions | 64 mm |
| Housing material | metal, CuZn, chrome-plated |
| Material active area | plastic, PBT |
| End cap | plastic, EPTR |
| Housing nut tightening torque | 25 Nm |
| Connection | cable |
| cable quality | Ø 5.2, LifYY, PVC, 2 m |
| Cable cross section: | 4 x 0.34 mm ² |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Protection degree | IP67 |
| Switch state display | LED yellow |