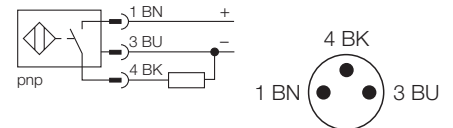


- rectangular, height 8mm
- top active face
- metal, die-cast zinc
- connector with snap-on connection
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- flange connector, Ø 8 mm

Wiring diagram



Functional 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-Q08-AP6X2-V1131 |
| Ident-No. | 1608900 |
| Rated operating distance Sn | 5 mm |
| Mounting condition | flush |
| Assured sensing range | (0,81 x Sn) mm |
| Repeatability | 2 % |
| Temperature drift | ± 10 % |
| Hysteresis | 3... 15 % |
| Ambient temperature | -30...+ 85 °C |
| Operating voltage | 10... 30VDC |
| 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 drop at I _e | 1.8V |
| Wire breakage / Reverse polarity protection | yes / complete |
| Output function | 3-wire, normally open, pnp |
| Switching frequency | 0.25 kHz |
| Housing | rectangular, Q08 |
| Dimensions | 32 x 20 x 8 mm |
| Housing material | metal, GD-Zn, nickel-plated |
| Material active face | plastic, PP, yellow |
| Connection | connectors, flange connector, Ø 8 mm |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Degree of protection | IP67 |
| Operating voltage display | LED green |
| Display switch state | LED yellow |

**Inductive sensor
Bi5U-Q08-AP6X2-V1131**

| Mounting instructions | minimum distances |
|-----------------------|-------------------|
| Distance D | 40 mm |
| Distance W | 15 mm |
| Distance G | 30 mm |

| | |
|-----------------------------------|-------|
| Width of the active face B | 20 mm |
|-----------------------------------|-------|

