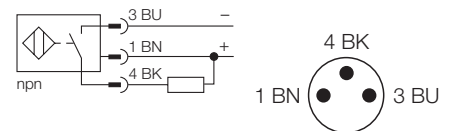


- rectangular, height 10.8mm
- top active face
- Plastic, PBT-GF30-V0
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M8 x 1

Wiring diagram



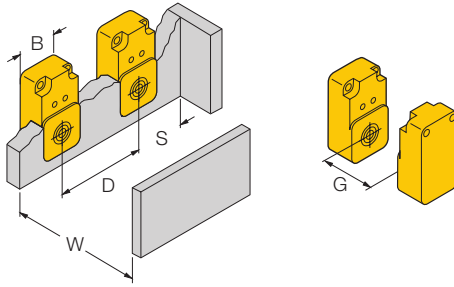
Functional principle

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 | Bi8U-Q10-AN6X2-V1131 |
| Ident-No. | 1662004 |
| Rated operating distance Sn | 8 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, npn |
| Insulation class | |
| Switching frequency | 0.25 kHz |
| Housing | rectangular, Q10 |
| Dimensions | 42 x 25 x 10.8 mm |
| Housing material | plastic, PBT-GF30-V0 |
| Material active face | plastic, PBT-GF30-V0 |
| Connection | connectors, M8 x 1 |
| 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 |

| Mounting instructions | minimum distances |
|------------------------------|-------------------|
| Distance D | 2 x B |
| Distance W | 3 x Sn |
| Distance S | 1 x B |
| Distance G | 6 x Sn |

| | |
|-----------------------------------|-------|
| Width of the active face B | 25 mm |
|-----------------------------------|-------|



Accessories

| Type code | Ident-No. | Short text | Dimension drawing |
|------------|-----------|--------------------------------------|-------------------|
| MW-Q08/Q10 | 6945007 | mounting bracket; material VA 1.4301 | |