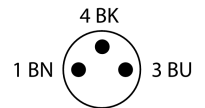
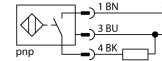


- Rectangular, height 14 mm
- Active face on top
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M8 x 1 male connector

Wiring Diagram



Functional principle

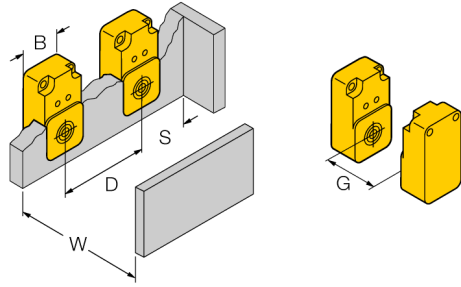
Inductive sensors detect metal objects contactless and wear-free. *uprox®* Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

| | |
|---|---|
| Type designation | BI10U-Q14-AP6X2-V1131 |
| Ident no. | 1608500 |
| Rated switching distance Sn | 10 mm |
| Mounting conditions | Flush |
| Secured operating distance | ≤ (0,81 x Sn) mm |
| Repeat accuracy | ≤ 2 % of full scale |
| Temperature drift | ≤ ± 10 % |
| Hysteresis | ≤ ± 15 %, ≤ -25 °C v ≥ +70 °C |
| Ambient temperature | 3...15 °C |
| Ambient temperature | -30...+85 °C |
| Operating voltage | 10...30 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 200 mA |
| No-load current I ₀ | ≤ 15 mA |
| Residual current | ≤ 0.1 mA |
| Isolation test 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 |
| Reverse polarity protection | Complete |
| Switching frequency | 0.25 kHz |
| Design | Rectangular, Q14 |
| Dimensions | 52 x 30 x 14 mm |
| Housing material | Plastic, PBT-GF30-V0 |
| Electrical connection | Connector, M8 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 874 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication | LED green |
| Switching state | LED yellow |

Inductive sensor
BI10U-Q14-AP6X2-V1131

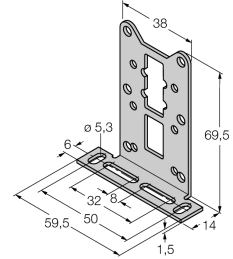
| | |
|-------------------|---------|
| Distance D | 1.5 x B |
| Distance W | 3 x Sn |
| Distance S | 1 x B |
| Distance G | 6 x Sn |

| | |
|----------------------------|-------|
| Width active area B | 30 mm |
|----------------------------|-------|



Accessories

| Type code | Ident no. | Description |
|------------|-----------|---|
| MW-Q14/Q20 | 6945006 | Mounting bracket for rectangular Q14 or Q20; material VA 1.4301 |



Wiring accessories

| Type code | Ident no. | Description |
|-------------|-----------|---|
| PKG3M-2/TEL | 6625058 | Connection cable, female M8, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com |

