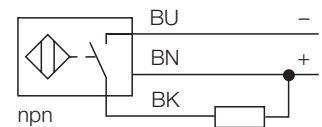


- rectangular, height 20mm
- top active face
- plastic, PBT-GF30-V0
- factor 1 for all metals
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10..0.30 VDC
- normally open npn output
- cable connection

Wiring diagram



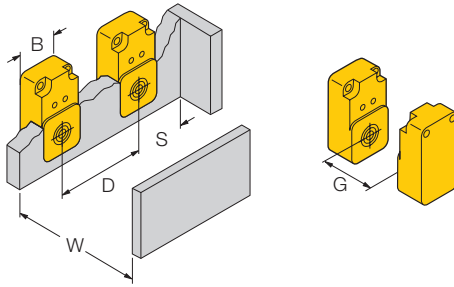
Function principle

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.

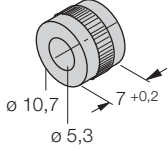
Type	Bi15U-Q20-AN6X2
Ident-No.	1608810
Rated operating distance Sn	15 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Repetition accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Ambient temperature	3... 15 % -30...+ 85 °C
Operating voltage	10... 30 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	3-wire, normally open, npn
Insulation class	□
Switching frequency	≤ 0.25 kHz
Housing style	rectangular; Q20
Dimensions	68x 40x 20mm
Housing material	plastic, PBT-GF30-V0
Material active area	plastic, PBT-GF30-V0
Connection	cable
cable quality	Ø 5.2, LiFY-11Y, PUR, 2 m
Cable cross section	3 x 0.34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP67
Operating voltage display	LED green
Switch state display	LED yellow

Mounting instructions	minimum distances
Distance D	1,5 x B
Distance W	3 x Sn
Distance S	1 x B
Distance G	6 x Sn

Width of the active area B	40 mm
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Accessories

Type code	Ident-No.	Short text	Dimension drawing
MH-Q20	6950010	for mounting with active face downwards	
MW-Q14/Q20	6945006	mounting bracket; material VA 1.4301	