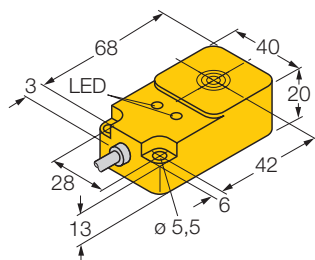


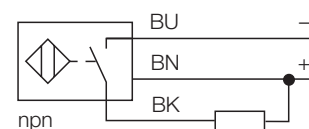
Inductive sensor

Bi15U-Q20-AN6X2



- 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...30 VDC
- normally open npn output
- cable connection

Wiring diagram



Function principles

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

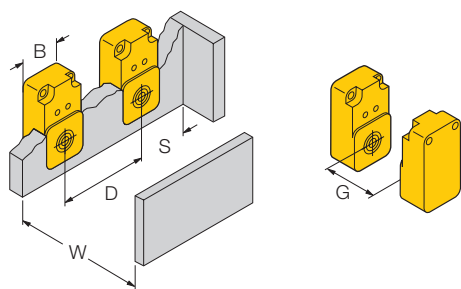
Type	Bi15U-Q20-AN6X2
Ident-No.	1608810
Rated operating distance Sn	15 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C -30 ...+ 85 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	≤ 10 % U _{pp}
Rated operational current (DC) I _e	≤ 200 mA
No-load current I ₀	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,25 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Protection class	□
Housing style	rectangular; Q20
Dimensions	68 x 40 x 20 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	cable
Cable	Ø 5,2, LifYY, PVC, 2 m
Cable cross section	3 x 0,34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow

Inductive sensor**Bi15U-Q20-AN6X2****Mounting instructions**

Gap D	minimum gap 1,5 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn

Width of active face B

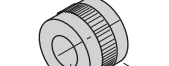
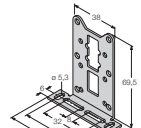
40 mm



Inductive sensor

Bi15U-Q20-AN6X2

Accessories

Typ	Ident-No.	Description	Dimension drawing
MH-Q20	6950010	for mounting with active face downwards	 $\varnothing 10,7$ $\varnothing 5,3$ $7 +0,2$
MW-Q14/Q20	6945006	mounting bracket; material VA 1.4301	 $\varnothing 5,3$ 50 60.5 32 14 14 14