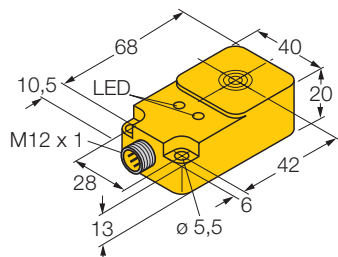


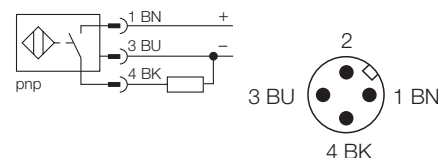
Inductive sensor

Bi15U-Q20-AP6X2-H1141



- 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 pnp output
- connector, M12 x 1

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.

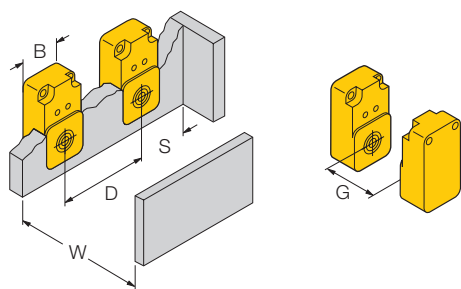
Type	Bi15U-Q20-AP6X2-H1141
Ident-No.	1608600
Rated operating distance S_n	15 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	$\leq \pm 15 \%$, $\leq -25 \text{ }^\circ\text{C}$ $\vee \geq +70 \text{ }^\circ\text{C}$ -30 ...+ 85 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	$\leq 10 \%$ U_{pp}
Rated operational current (DC) I_e	$\leq 200 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Max. OFF-state current	$\leq 0,1 \text{ mA}$
Max. switching frequency	$\leq 0,25 \text{ kHz}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Output function	3-wire, normally open, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	$\leq 1,8 \text{ V}$
Wire breakage / reverse polarity protection	yes / complete
Protection class	IP67
Housing style	rectangular; Q20
Dimensions	68 x 40 x 20 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	connector, M12 x 1
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-AP6X2-H1141****Mounting instructions**

	minimum gap
Gap D	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-AP6X2-H1141

Accessories

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