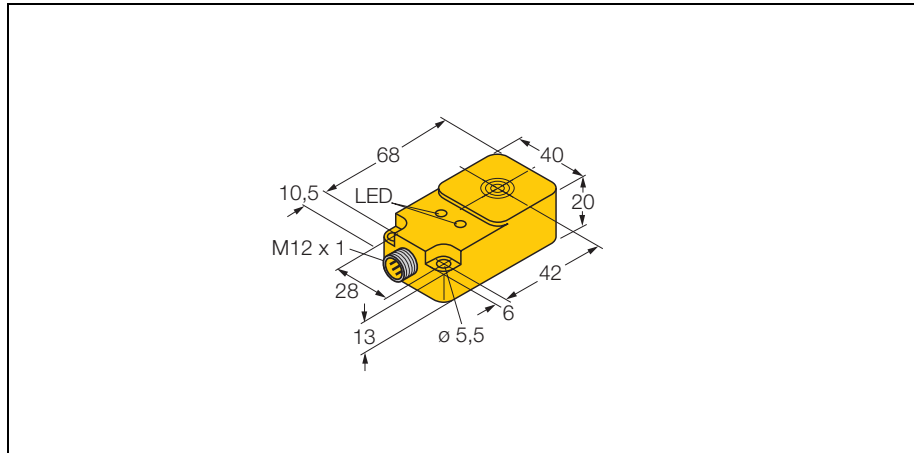


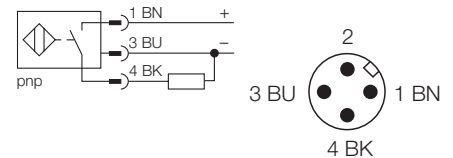
Inductive sensor

Bi15-Q20-AP6X2-H1141



- rectangular, height 20mm
- top active face
- plastic, PBT-GF30-V0
- 3-wire DC, 10...30 VDC
- normally open pnp output
- connector, M12 x 1

Wiring diagram



Type	Bi15-Q20-AP6X2-H1141
Ident-No.	1608305
Rated operating distance S_n	15 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ... + 70 °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, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
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

Function principles

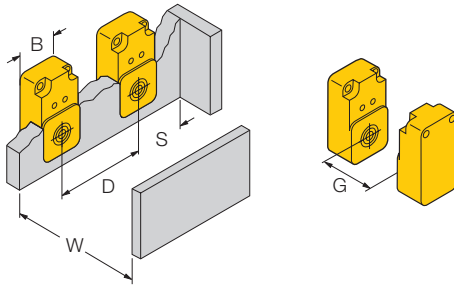
Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Inductive sensor

Bi15-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

Bi15-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	