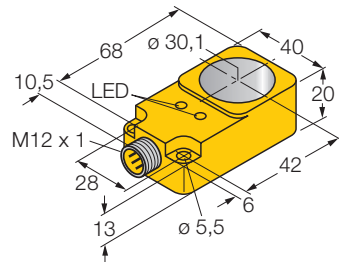
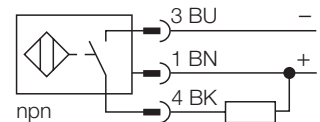


Inductive sensor ring sensor Bi30R-Q20-AN6X2-H1141



- ring sensor, height 20 mm
- plastic, PBT-GF30-V0
- static output performance
- output pulse length min. 100 ms
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

Wiring diagram



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. Inductive ring sensors generate this field by an LC resonant circuit. The target acts as the coil core.

Type	Bi30R-Q20-AN6X2-H1141
Ident-No.	1407520
Interior ring diameter	30,1 mm
Min. steel ball diameter (DIN 5401)	≥ 6 mm
Pulse pause	≥ 5 ms
Pulse length at output	≥ 100 ms ± 20 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	≤ 10 % U_{pp}
Rated operational current (DC) I_B	≤ 200 mA
No-load current I_0	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,008 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I_B	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	ring sensor; Q20
Dimensions	68 x 40 x 20 mm
Housing material	plastic, PBT-GF30-V0
Wiring	connector, M12 x 1
Coil form	Plastic, POM
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
ring sensor
Bi30R-Q20-AN6X2-H1141**

Mounting instructions

	minimum gap
Gap D	40 mm
Gap W	55 mm
Gap S	20 mm
Gap G	40 mm

