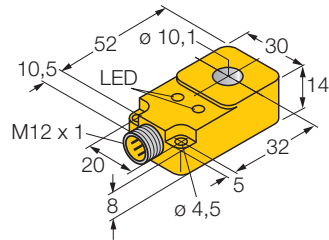
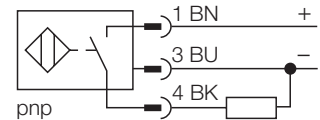


## Inductive sensor ring sensor Bi10R-Q14-AP6X2-H1141



- ring sensor, height 14 mm
- plastic, PBT-GF30-V0
- static output performance
- output pulse length min. 100 ms
- 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. 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.

<b>Type</b>	Bi10R-Q14-AP6X2-H1141
Ident-No.	1407100
<b>Interior ring diameter</b>	10,1 mm
Min. steel ball diameter (DIN 5401)	≥ 2 mm
Pulse pause	≥ 5 ms
Pulse length at output	≥ 100 ms ± 20 %
Operating temperature	-25 ...+ 70 °C
<b>Rated operational voltage (DC) U<sub>B</sub></b>	10... 30 VDC
Max. ripple	≤ 10 % U <sub>pp</sub>
Rated operational current (DC) I <sub>e</sub>	≤ 200 mA
No-load current I <sub>0</sub>	≤ 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, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I <sub>e</sub>	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
<b>Housing style</b>	ring sensor; Q14
Dimensions	62,5 x 30 x 14 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
<b>Supply voltage indication</b>	LED green
Switching status indication	LED yellow

**Inductive sensor  
ring sensor  
Bi10R-Q14-AP6X2-H1141**

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**Mounting instructions**

	minimum gap
Gap D	30 mm
Gap W	45 mm
Gap S	14 mm
Gap G	30 mm

