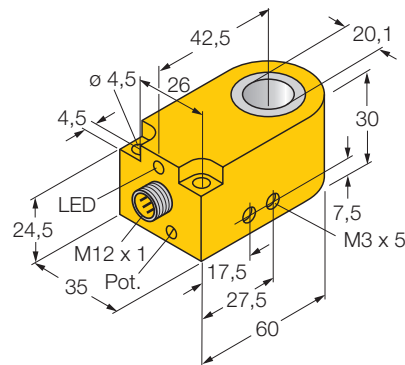
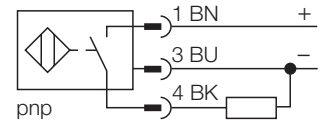


Inductive sensor ring sensor Bi20R-W30-DAP6X-H1141



- ring sensor, height 30 mm
- plastic, PA12-GF30
- pulse duration 100 ms
- 3-wire DC, 10...30 VDC
- dynamic output performance
- normally open pnp output
- connector, M12 x 1

Wiring diagram



Function principles

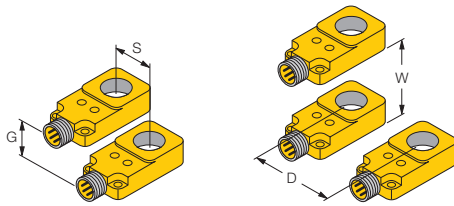
Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. Inductive ring sensors generate this field by an LC resonant circuit. The target acts as the coil core.

Type	Bi20R-W30-DAP6X-H1141
Ident-No.	14042
Interior ring diameter	20,1 mm
Min. steel ball diameter (DIN 5401)	≥ 2 mm
Target velocity	0,1... 50 m/s
Pulse pause	≥ 5 ms
Impuls length	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 _e	≤ 200 mA
No-load current I ₀	≤ 10 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 _e	≤ 2,5 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	ring sensor; W30
Dimensions	60 x 35 x 30 mm
Housing material	plastic, PA12-GF30
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
Switching status indication	LED yellow

**Inductive sensor
ring sensor
Bi20R-W30-DAP6X-H1141**

Mounting instructions

	minimum gap
Gap D	120 mm
Gap W	120 mm
Gap S	20
Gap G	120 mm



Inductive sensor ring sensor Bi20R-W30-DAP6X-H1141

Accessories

Typ	Ident-No.	Description	Dimension drawing
BS-Bi20R-W30	6900401	fixing clamp for direct mounting on the pipe or tube; clamping ability 19...20 mm; material: POM; included in scope of supply: 1x M4 x 30 (DIN 912-A2); 2x M4 x 35 (DIN 912-A2)	