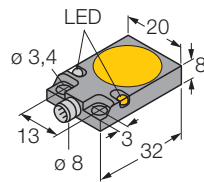
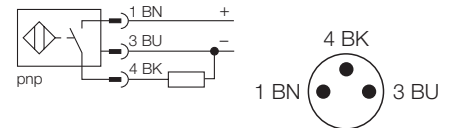


Inductive sensor magnetic-field immune Bi5-Q08-AP6X2-V1131/S34



- rectangular, height 8mm
- top active face
- metal, GD-Zn
- connector with snap-lock
- magnetic-field immunity (welding resistance) to AC and DC fields
- 3-wire DC, 10...30 VDC
- normally open pnp output
- connector, M8 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. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil. Magnetic field sensors incorporate a special ferrite core which make them immune to magnetic AC and DC fields. They may thus be used in welding applications.

Type	Bi5-Q08-AP6X2-V1131/S34
Ident-No.	1600501
Rated operating distance S_n	5 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	-25 ... + 70 °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	$\leq 1 \text{ kHz}$
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
Housing style	rectangular; Q08
Dimensions	32 x 20 x 8 mm
Housing material	metal, GD-Zn
Active face	plastic, PA12-GF30
Wiring	connector, M8 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
magnetic-field immune
BI5-Q08-AP6X2-V1131/S34**

Mounting instructions		minimum gap
Gap D		2 x B
Gap W		3 x Sn
Gap S		1 x B
Gap G		6 x Sn
Width of active face B		20 mm

