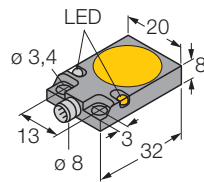
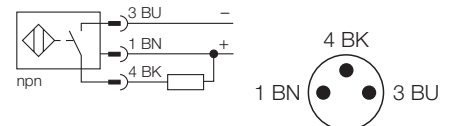


Inductive sensor with extended switching distance Bi7-Q08-AN6X2-V1131



- rectangular, height 8mm
- top active face
- metal, GD-Zn
- connector with snap-lock
- extended switching distance
- 3-wire DC, 10...30 VDC
- normally open npn 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 conventional inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Bi7-Q08-AN6X2-V1131
Ident-No.	1601622
Rated operating distance S_n	7 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	$\leq 0,5 \text{ kHz}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Output function	3-wire, normally open, NPN
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 with extended switching distance Bi7-Q08-AN6X2-V1131

Mounting instructions

	minimum gap
Gap D	$2 \times B$
Gap W	$3 \times S_n$
Gap S	$1 \times B$
Gap G	$6 \times S_n$

Width of active face B20 mm

