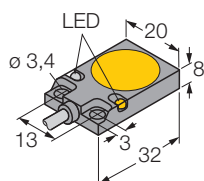
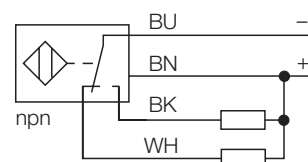


Inductive sensor with extended switching distance Bi7-Q08-VN6X2



- rectangular, height 8 mm
- top active face
- metal, GD-Zn
- extended switching distance
- 4-wire DC, 10...30 VDC
- SPDT, npn output
- cable connection

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-VN6X2
Ident-No.	1600920
Rated operating distance S_n	7 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	$\leq \pm 10$ %
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	≤ 15 mA
Max. OFF-state current	$\leq 0,1$ mA
Max. switching frequency	$\leq 0,5$ kHz
Rated insulation voltage	$\leq 0,5$ kV
Output function	4-wire, complementary, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	$\leq 1,8$ 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	cable
Cable	$\varnothing 5,2$, LifYY, PVC, 2 m
Cable cross section	4 x 0,25 mm ²
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-VN6X2

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

