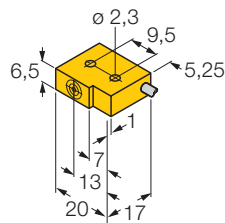


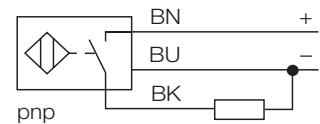
Inductive sensor

Bi1-Q6,5-AP6



- rectangular, height 6.5 mm
- side active face
- plastic, PA12
- 3-wire DC, 10...30 VDC
- normally open pnp 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 inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Bi1-Q6,5-AP6
Ident-No.	4613400
Rated operating distance S_n	1 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	≤ 150 mA
No-load current I_0	≤ 15 mA
Max. OFF-state current	$\leq 0,1$ mA
Max. switching frequency	≤ 2 kHz
Rated insulation voltage	$\leq 0,5$ kV
Output function	3-wire, normally open, PNP
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; Q6,5
Dimensions	20 x 17 x 6,5 mm
Housing material	plastic, PA12
Active face	plastic, PA12-GF20
Wiring	cable
Cable	Ø 3, LifYY-11Y, PUR, 2 m
Cable cross section	3 x 0,14 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67

Inductive sensor

Bi1-Q6,5-AP6

Mounting instructions

Gap D	minimum gap 2 x B
Gap W	3 x Sn
Gap S	1 x B
Gap G	6 x Sn

Width of active face B6,5 mm

