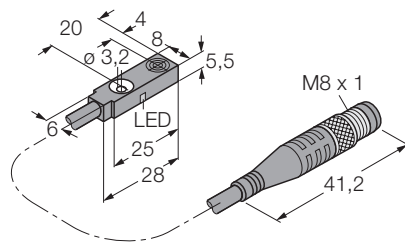


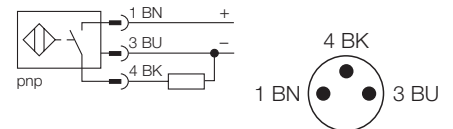
Inductive sensor

Bi2-Q5,5-AP6X-0,3-PSG3M



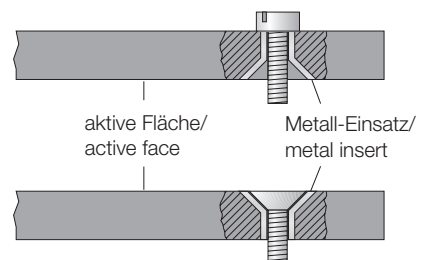
- rectangular, height 5.5mm
- top active face
- plastic, PA12-GF30
- 3-wire DC, 10...30 VDC
- normally open pnp output
- connector, M8 x 1

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.



Type	Bi2-Q5,5-AP6X-0,3-PSG3M
Ident-No.	1613007
Rated operating distance S_n	2 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	-25 ... + 85 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	$\leq 10 \% U_{pp}$
Rated operational current (DC) I_e	$\leq 150 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Max. OFF-state current	$\leq 0,1 \text{ mA}$
Max. switching frequency	$\leq 2 \text{ kHz}$
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; Q5,5
Dimensions	28 x 8 x 5,5 mm
Housing material	plastic, PA12-GF30
Active face	plastic, PA12-GF30
Wiring	connector, M8 x 1
Cable	$\varnothing 3$, LiYY-11Y, PUR, 0,3 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
Switching status indication	LED yellow

Inductive sensor

Bi2-Q5,5-AP6X-0,3-PSG3M

Mounting instructions

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

