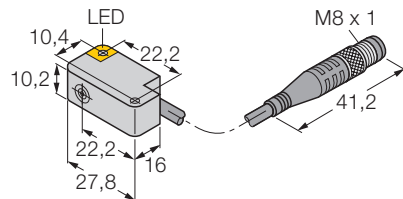


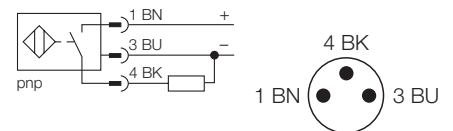
Inductive sensor

Bi2-Q10S-AP6X-0,2-PSG3M



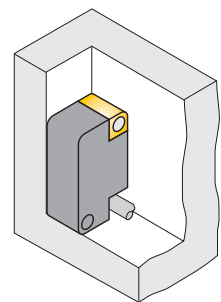
- rectangular, height 10,2 mm
- side active face
- cable outlet to all sides possible
- plastic, PA12-GF20
- 3-wire DC, 10...30 VDC
- normally open pnp output
- connector, M8 x 1

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-Q10S-AP6X-0,2-PSG3M
Ident-No.	1609303
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 ...+ 70 °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; Q10S
Dimensions	27,8 x 16 x 10,2 mm
Housing material	plastic, PA12-GF20
Active face	plastic, PA12-GF20
Wiring	connector, M8 x 1
Cable	$\varnothing 4$, LifYY-11Y, PUR, 0,2 m
Cable cross section	3 x 0,25 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-Q10S-AP6X-0,2-PSG3M

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 B10,2 mm

