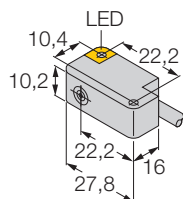


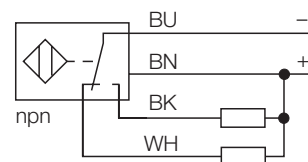
Inductive sensor

Bi2-Q10S-VN6X



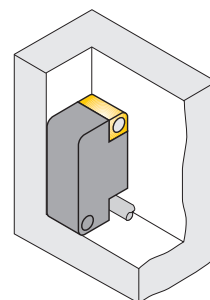
- rectangular, height 10,2 mm
- side active face
- cable outlet to all sides possible
- plastic, PA12-GF20
- 4-wire DC, 10...30 VDC
- SPDT, npn output
- cable connection

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 inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.



Type	Bi2-Q10S-VN6X
Ident-No.	1609341
Rated operating distance Sn	2 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 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	≤ 0,1 mA
Max. switching frequency	≤ 2 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	4-wire, complementary, NPN
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 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	cable
Cable	Ø 4, LifYY-11Y, PUR, 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-VN6X

Mounting instructions

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

10,2 mm

