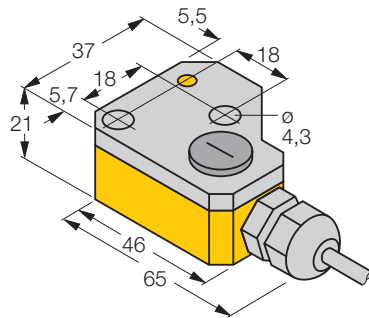


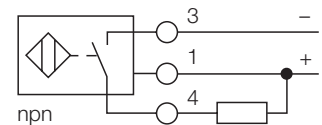
Inductive sensor

Bi2-Q21SR-AN6X



- rectangular, height 21mm
- side active face
- plastic, PA12-GF30
- 3-wire DC, 10...30 VDC
- normally open npn output
- terminal chamber

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-Q21SR-AN6X
Ident-No.	16195
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	$\leq 200 \text{ mA}$
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, NPN
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; Q21SR
Dimensions	65 x 37 x 21 mm
Housing material	plastic, PA12-GF30
Active face	plastic, PA12-GF30
Wiring	terminal chamber
Clamping ability	$\leq 2,5 \text{ mm}^2$
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-Q21SR-AN6X

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 B18 mm

