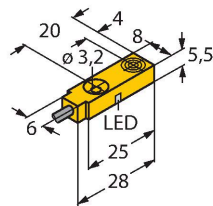


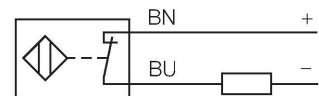
BI2-Q5.5-RG6X Inductive Sensor



Features

- Rectangular, height 5.5 mm
- Active face on top
- Plastic, PP
- DC 2-wire, 10...30 VDC
- Polarized version
- NC contact
- Cable connection

Wiring diagram



Technical data

Type	BI2-Q5.5-RG6X
ID	1613109
General data	
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	$\leq \pm 10$ %
Hysteresis	1...15 %
Electrical data	
Operating voltage U_B	10...30 VDC
Ripple U_{rs}	≤ 10 % U_{Bmax}
DC rated operating current I_o	≤ 100 mA
Residual current	≤ 0.6 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_o	≤ 4.2 V
Wire break/reverse polarity protection	Polarized
Output function	NC contact, 2-wire
Smallest operating current	≥ 3 mA
Switching frequency	1 kHz

Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

