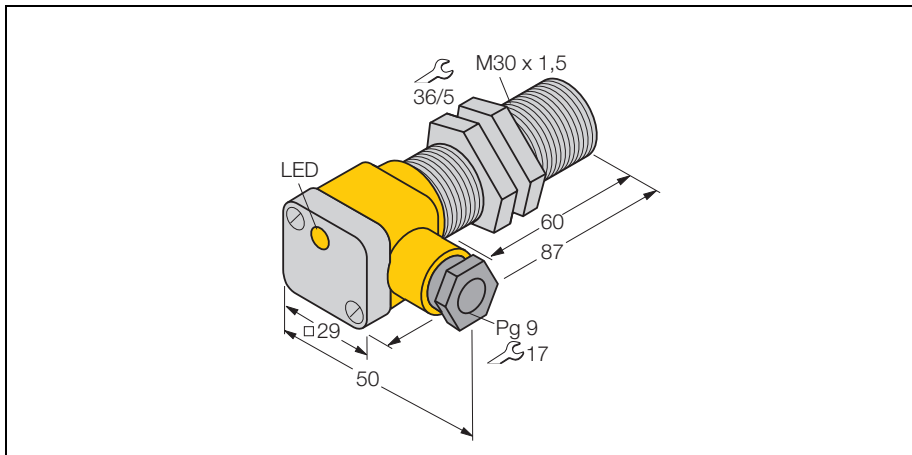


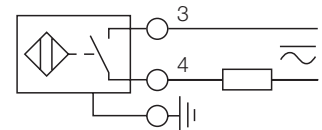
Inductive sensor

Bi10-G30SK-AZ3X



- threaded barrel, M30 x 1,5
- short version
- chrome-plated brass
- 2-wire AC, 20...250 VAC
- 2-wire DC, 10...300 VDC
- normally open
- 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.

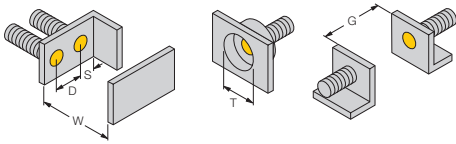
Type	Bi10-G30SK-AZ3X
Ident-No.	43460
Rated operating distance S_n	10 mm
Mounting mode	flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	$\leq \pm 10$ %
Operating temperature	-25 ... + 70 °C
Rated operational voltage (AC) U_B	20... 250 VAC
Rated operational voltage (DC) U_B	10... 300 VDC
Rated operational current (AC) I_e	≤ 400 mA
Rated operational current (DC) I_e	≤ 300 mA
Line frequency	50... 60 Hz
Max. OFF-state current	$\leq 1,7$ mA
Max. switching frequency	$\leq 0,02$ kHz
Rated insulation voltage	$\leq 1,5$ kV
Surge Current	≤ 8 A (≤ 10 ms max. 5 Hz)
Output function	2-wire, normally open
Max. voltage drop at I_e	≤ 6 V
Min. operational current I_m	≥ 3 mA
Housing style	threaded barrel; M30 x 1,5
Dimensions	87 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, PA12-GF30
Max. fixing torque of coupling nut	90 Nm
Wiring	terminal chamber
Clamping ability	$\leq 2,5$ mm ²
External diameter cable	4,5... 8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow
Included with sensor	cable gland, 2x plastic seals

Inductive sensor

Bi10-G30SK-AZ3X

Mounting instructions	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn

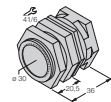
Diameter of active face B \varnothing 30 mm



Inductive sensor

Bi10-G30SK-AZ3X

Accessories

Typ	Ident-No.	Description	Dimension drawing
QM-30	6945103	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M36 x 1,5.	
BST-30B	6947216	fixing clamp with dead-stop; material: PA6	