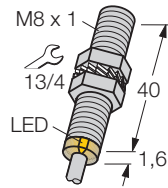


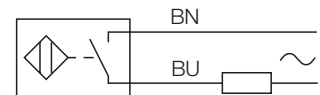
Inductive sensor

Bi2-EG08-AZ14X



- threaded barrel, M8 x 1
- stainless steel, 1.4301
- 2-wire AC, 20...132 VAC
- 2-wire DC, 10...140 VDC
- normally open
- 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-EG08-AZ14X
Ident-No.	4100001
Rated operating distance Sn	2 mm
Mounting mode	flush
Hysteresis (switching distance)	1... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (AC) U_B	20... 132 VAC
Rated operational voltage (DC) U _B	10... 140 VDC
Rated operational current (AC) I _e	≤ 100 mA
Rated operational current (DC) I _e	≤ 100 mA
Line frequency	50... 60 Hz
Max. OFF-state current	≤ 0,6 mA
Max. switching frequency	≤ 0,02 kHz
Rated insulation voltage	≤ 1,5 kV
Surge Current	≤ 0,2A (...10 ms; max 0,2 A)
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; M8 x 1
Dimensions	41,6 mm
Housing material	metal, A2 1.4301 (AISI 304)
Active face	plastic, PA12-GF20
Max. fixing torque of coupling nut	10 Nm
Wiring	cable
Cable	Ø 5,2, LifYY-11Y, PUR, 2 m
Cable cross section	2 x 0,34 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

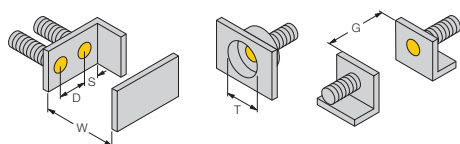
Bi2-EG08-AZ14X

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

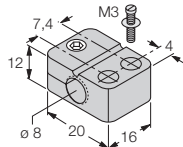
Ø 8 mm



Inductive sensor

Bi2-EG08-AZ14X

Accessories

Typ	Ident-No.	Description	Dimension drawing
BST-08B	6947210	fixing clamp with dead-stop; material: PA6	
QM-08	6945100	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M12 x 1	

