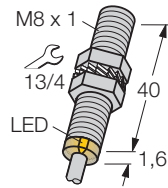
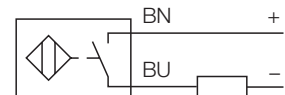


Inductive sensor with extended switching distance Bi2-EG08-AG41X



- threaded barrel, M8 x 1
- stainless steel, 1.4301
- extended switching distance
- 2-wire DC, 10...55 VDC
- polarized version
- normally open
- cable connection

Wiring diagram



Function principles

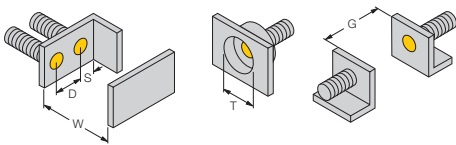
Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With conventional inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Bi2-EG08-AG41X
Ident-No.	4562000
Rated operating distance S_n	2 mm
Mounting mode	flush
Hysteresis (switching distance)	1... 15 %
Min. repeat accuracy	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 55 VDC
Max. ripple	$\leq 10 \% U_{pp}$
Rated operational current (DC) I_e	$\leq 100 \text{ mA}$
Max. OFF-state current	$\leq 0,6 \text{ mA}$
Max. switching frequency	$\leq 1 \text{ kHz}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Short-circuit protection	yes, cyclic
Max. voltage drop at I_e	$\leq 3,5 \text{ V}$
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	$\varnothing 4$, LifYY, PVC, 2 m
Cable cross section	$2 \times 0,25 \text{ mm}^2$
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow

Inductive sensor with extended switching distance Bi2-EG08-AG41X

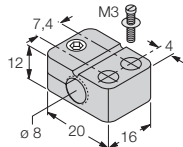
Mounting instructions	minimum gap
Gap D	2 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn

Diameter of active face B	Ø 8 mm
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Inductive sensor with extended switching distance Bi2-EG08-AG41X

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	

