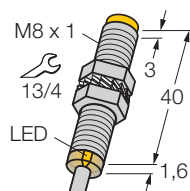


Inductive sensor Ni3-EG08-AN6X

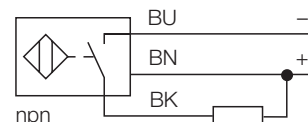
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- threaded barrel, M8 x 1
- stainless steel, 1.4404
- 3-wire DC, 10...30 VDC
- normally open npn output
- cable connection

Wiring diagram



Functional principle

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

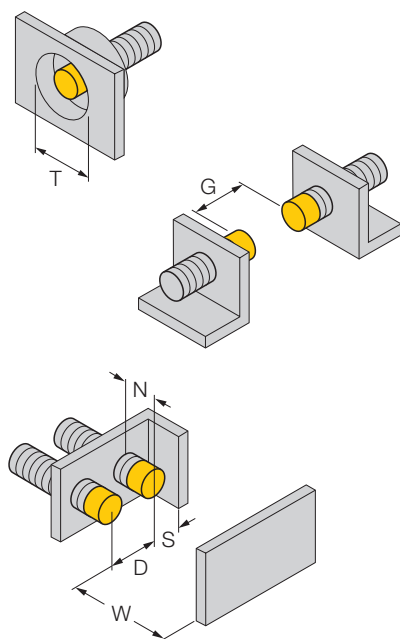
Type	Ni3-EG08-AN6X
Ident-No.	4602840
Rated operating distance Sn	3 mm
Mounting condition	non-flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	$\leq 2 \%$
Temperature drift	$\leq \pm 10 \%$
Hysteresis	3... 15 %
Ambient temperature	-25... + 70 °C
Operating voltage	10... 30VDC
Residual ripple	$\leq 10 \%$ U _{ss}
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I _e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Switching frequency	≤ 3 kHz
Housing	threaded barrel, M8 x 1
Dimensions	41.6 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
End cap	plastic, PP
Tightening torque of housing nut	10 Nm
Connection	cable
Cable quality	Ø 4, LiYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.25mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow

Inductive sensor Ni3-EG08-AN6X

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Mounting instructions	minimum distances
Distance D	$3 \times B$
Distance W	$3 \times S_n$
Distance T	$3 \times B$
Distance S	$1,5 \times B$
Distance G	$6 \times S_n$
Distance N	$2 \times S_n$

Diameter of the active area B	$\varnothing 8 \text{ mm}$
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Inductive sensor Ni3-EG08-AN6X

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
BST-08B	6947210	fixing clamp with dead-stop; material: PA6	
MW-08	6945008	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	
BSS-08	6901322	fixing clamp; material: polypropylene	