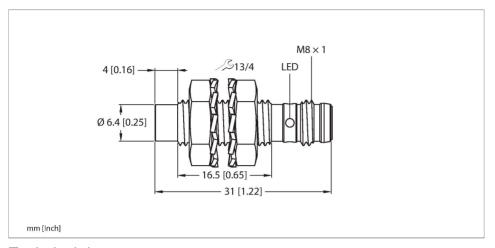


NI3-EG08K-AN6X-V1131 Inductive Sensor



Technical data

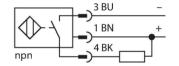
Type	NI3-EG08K-AN6X-V1131
ID	4669750
General data	
Rated switching distance	3 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
Hysteresis	20 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 150 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I _e	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, NPN
Switching frequency	3 kHz
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Features

- ■M8 × 1 threaded barrel
- Stainless steel, 1.4305 (AISI 303)
- ■DC 3-wire, 10...30 VDC
- ■NO contact, NPN output
- ■M8 x 1 male connector

Wiring diagram





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.

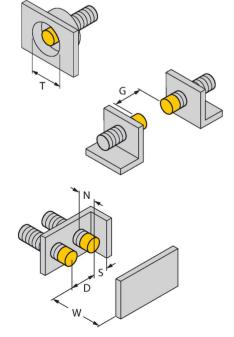


Technical data

Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	31 mm
Housing material	Stainless steel, 1.4305 (AISI 303)
Active area material	Plastic, PBT
Max. tightening torque of housing nut	5 Nm
Electrical connection	Connector, M8 × 1
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description



Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 8 mm

Accessories

BST-08B 6947210

QM-08

BSS-08

6945100

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



Quick-mount bracket with deadstop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quickmount brackets.

MW08 6945008

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



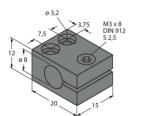
6901322 Mounting clamp for smooth and threaded barrel sensors; material:

Polypropylene



MBS80

69479



Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum

Wiring accessories

ID Dimension drawing Type PKGV3M-2/TEL 6625385



Connection cable, M8 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, black; cULus approval