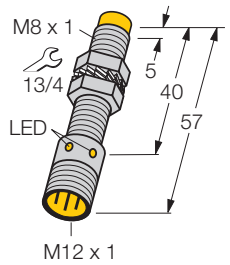
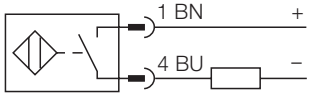
Inductive sensor
with extended switching distance
Ni4-EG08-AG41X-H1341

Industrial Automation



- **threaded barrel, M8 x 1**
- **stainless steel, 1.4404**
- **large detection range**
- **2-wire DC, 10…55 VDC**
- **polarized version**
- **normally open**
- **connector M12 x 1**

Wiring diagram



Type	Ni4-EG08-AG41X-H1341
Ident-No.	4561001
Rated operating distance Sn	4 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Temperature drift	≤ ± 10 %
Hysteresis	1… 15 %
Repeatability	≤ 2 %
Ambient temperature	-25…+ 70°C
Operating voltage	10… 55VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.6 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I_e	≤ 3.5V
Output function	2-wire, normally open, 2-wire
Smallest operating current I_m	≥ 3 mA
Switching frequency	≤ 1 kHz
Housing	threaded barrel, M8 x 1
Dimensions	57 x 8 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
Tightening torque of housing nut	10 Nm
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow

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. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

• Edition: • 07.04.2008

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