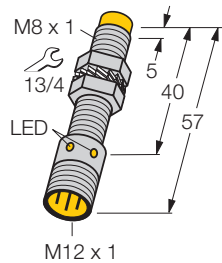
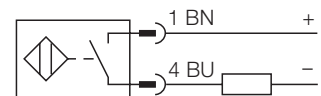


## Inductive sensor with extended switching distance Ni4-EG08-AG41X-H1341



- 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



### 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.

<b>Type</b>	Ni4-EG08-AG41X-H1341
Ident-No.	4561001
<b>Rated operating distance Sn</b>	4 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
Temperature drift	$\leq \pm 10 \%$
Hysteresis	1... 15 %
Repeatability	$\leq 2 \%$
Ambient temperature	-25...+ 70°C
<b>Operating voltage</b>	10... 55VDC
Residual ripple	$\leq 10 \%$ U <sub>SS</sub>
DC rated operational current	$\leq 100$ mA
Residual current	$\leq 0.6$ mA
Rated insulation voltage	$\leq 0.5$ kV
Short-circuit protection	yes / cyclic
Voltage drop at I <sub>e</sub>	$\leq 3.5$ V
Output function	2-wire, normally open, 2-wire
Smallest operating current I <sub>m</sub>	$\geq 3$ mA
Switching frequency	$\leq 1$ kHz
<b>Housing</b>	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
<b>Display switch state</b>	LED yellow