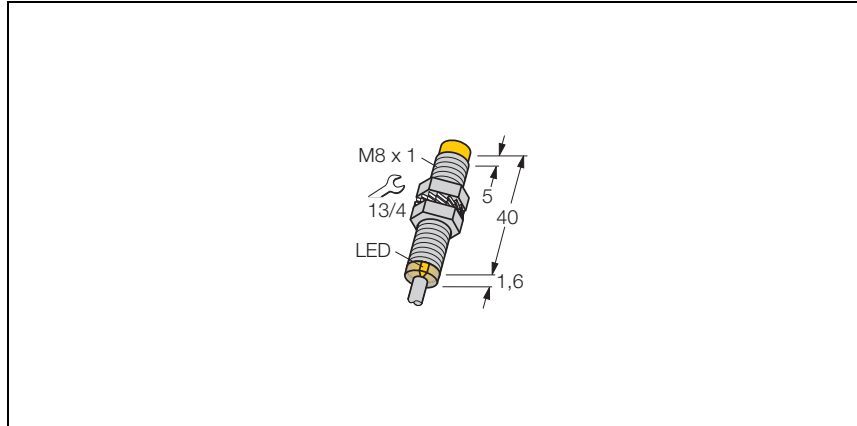
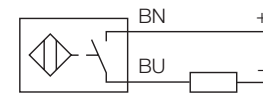


Inductive sensor with extended switching distance Ni4-EG08-AG41X



- threaded barrel, M8 x 1
- stainless steel, 1.4404
- large detection range
- 2-wire DC, 10...55 VDC
- polarized version
- normally open
- 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. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Ni4-EG08-AG41X
Ident-No.	4561000
Rated operating distance Sn	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
Operating voltage	10... 55VDC
Residual ripple	$\leq 10 \% U_{SS}$
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	≤ 3.5 V
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	41.6 x 8 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	$\varnothing 4$, LifYY-11Y, PUR, 2 m
Cable cross section:	2 x 0.25mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow