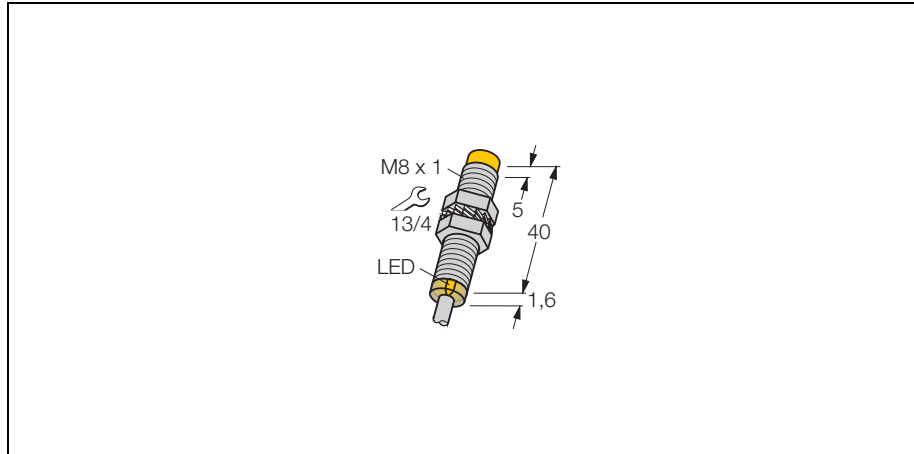
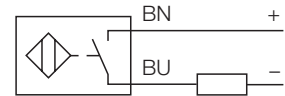


**Inductive sensor
with extended switching distance
Ni4-EG08-AG41X**



- 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

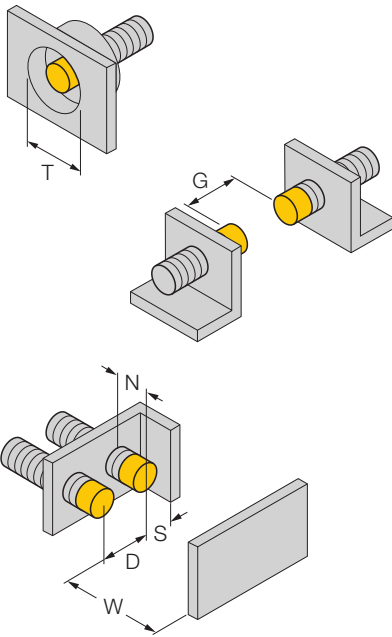
Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Ni4-EG08-AG41X
Ident-No.	4561000
Rated operating distance Sn	4 mm
Mounting condition	non-flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	2 %
Temperature drift	± 10 %
Hysteresis	1... 15 %
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	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, 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

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

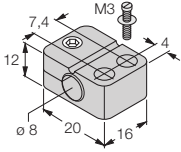
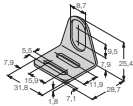

Mounting instructions	minimum distances
Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1,5 x B
Distance G	6 x Sn
Distance N	2 x Sn

Diameter of the active area B Ø 8 mm



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

Accessories

Type code	Ident-No.	Short text	Dimension drawing
BST-08B	6947210	fixing clamp with dead-stop; material: PA6	 <p>Technical drawing of a rectangular fixing clamp. Dimensions: 7.4 (width), 12 (height), 20 (length), 16 (depth), and 4 (flange thickness). A hole with diameter $\varnothing 8$ is shown. An M3 screw is shown passing through the top.</p>
MW-08	6945008	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	 <p>Technical drawing of a U-shaped mounting bracket. Dimensions: 5.7 (height), 7.5 (width), 10.5 (width), 1.9 (width), 25.4 (width), 1.9 (width), 25.7 (width), 1.5 (width), and 7.1 (width).</p>
BSS-08	6901322	fixing clamp; material: polypropylene	 <p>Technical drawing of a cylindrical fixing clamp. Dimensions: 25 (width), 25.5 (width), 25 (width), and 20 (width).</p>