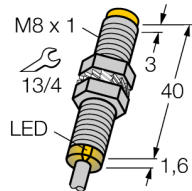
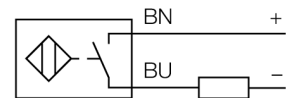


**Inductive sensor
with extended switching distance
NI4-EG08-AG41X**



- Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- Large detection range
- 2-wire DC, 10...55 VDC
- Polarized version
- NO contact
- Cable connection

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.

Type code	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; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	≤ 2 % of full scale
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 _s	≤ 3.5 V
Smallest operating current I _m	≤ 3 mA
Switching frequency	0.3 kHz
Design	threaded barrel, M8 x 1
Dimensions	41.6 mm
Housing material	stainless steel, 1.4427 SO
Material active area	Plastic, PA
End cap	Plastic, PP
Max. tightening torque housing nut	10 Nm
Connection	cable
Cable quality	4 mm, LifYY-11Y, PUR, 2 m
Cable cross section	2 x 0.25 mm ²
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

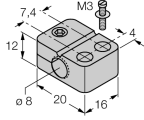
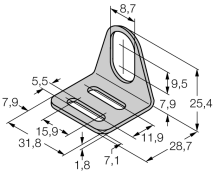
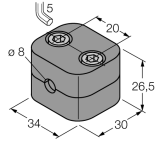
**Inductive sensor
with extended switching distance
NI4-EG08-AG41X**

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
<hr/>	
Diameter of the active area B	Ø 8 mm



**Inductive sensor
with extended switching distance
NI4-EG08-AG41X**

Accessories

Type code	Ident no.	Description	Dimension drawing
BST-08B	6947210	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	 <p>Technical drawing of a rectangular fixing clamp. Dimensions: 12 (height), 7.4 (width), 20 (length), 16 (width of base), 4 (width of top flange), and M3 (thread size of hole).</p>
MW-08	6945008	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	 <p>Technical drawing of a U-shaped mounting bracket. Dimensions: 8.7 (height), 9.5 (height of lip), 25.4 (width of lip), 7.9 (width of lip), 11.9 (width of lip), 28.7 (width of lip), 7.1 (width of lip), 1.8 (width of lip), 15.9 (width of lip), 31.8 (width of lip), 7.9 (width of lip), 5.5 (width of lip), and 7.9 (width of lip).</p>
BSS-08	6901322	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	 <p>Technical drawing of a rectangular mounting bracket. Dimensions: 5 (height), 20 (width), 26.5 (height), 34 (width), and 30 (width).</p>