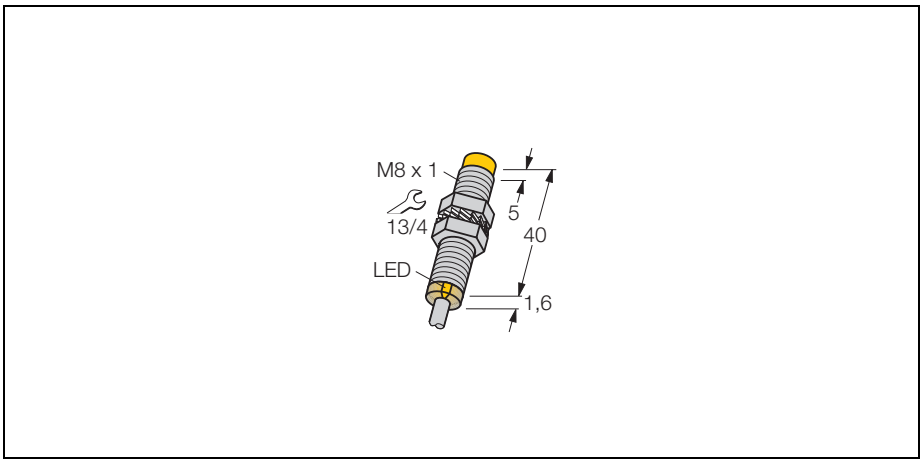
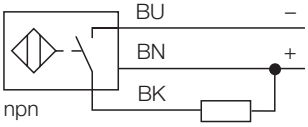
Inductive sensor
Ni6U-EG08-AN6X



- **threaded barrel, M8 x 1**
- **stainless steel, 1.4404**
- **factor 1 for all metals**
- **degree of protection IP68**
- **magnetic field immune**
- **high switching distance**
- **high switching frequency**
- **integrated predamping protection**
- **small metal-free zones**
- **3-wire DC, 10…30 VDC**
- **normally open npn output**
- **cable connection**

Type	Ni6U-EG08-AN6X
Ident-No.	4635803
Rated operating distance Sn	6 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	3… 15 %
Ambient temperature	0…+ 70 °C
Operating voltage	10… 30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I_e	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Insulation class	⧈
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:	3 x 0.25mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
Display switch state	LED yellow

Wiring diagram



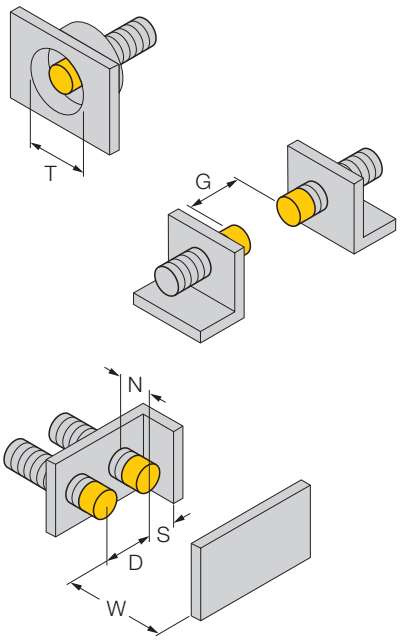
Functional principle

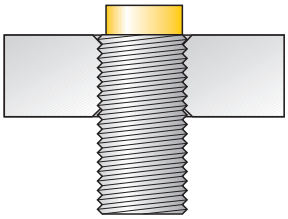
Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

• Edition: • 25.11.2008

Inductive sensor
Ni6U-EG08-AN6X

Mounting instructions	minimum distances
Distance D	32 mm
Distance W	18 mm
Distance T	32 mm
Distance S	12 mm
Distance G	36 mm
Distance N	12 mm
Diameter of the active area B	Ø 8 mm

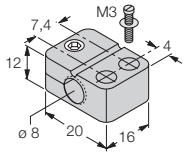
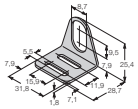




All non-flush mountable uprox+ threaded barrel switches allow embedded mounting up to the upper edge of the thread. Thus safe operation with a reduction of the switching distance is guaranteed.

• Edition: • 25.11.2008

Accessories

Type code	Ident-No.	Short text	Dimension drawing
BST-08B	6947210	fixing clamp with dead-stop; material: PA6	
MW-08	6945008	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	
BSS-08	6901322	fixing clamp; material: polypropylene	

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