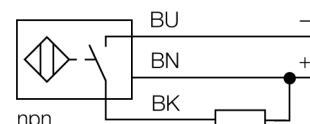


- Threaded barrel, M8 x 1
- Stainless steel, 1.4404
- Factor 1 for all metals
- Protection class IP68
- Magnetic field immune
- High switching distance
- High switching frequency
- Integrated predamping protection
- Limited metal-free spaces
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Cable connection

Wiring diagram



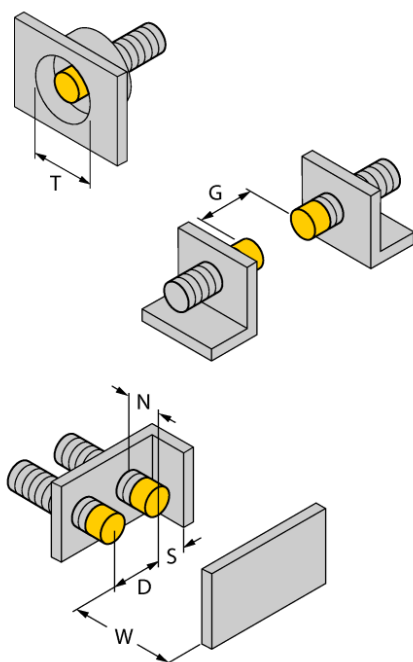
Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *Uprox®*+ sensors have distinct advantages compared to conventional sensors. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Type	NI6U-EG08-AN6X
Ident-No.	4635803
Rated operating distance Sn	6 mm
Mounting condition	non-flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Repeatability	$\leq 2 \%$
Temperaturdrift	10%
	$\leq \pm 20 \%, \leq 0 \text{ }^{\circ}\text{C}$
Hysteresis	$3...15 \%$
Ambient temperature	$-25...+70 \text{ }^{\circ}\text{C}$
Operating voltage	10...30VDC
Residual ripple	$\leq 10 \%$ U_{ss}
DC rated operational current	$\leq 150 \text{ mA}$
No-load current I_0	$\leq 15 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Rated insulation voltage	$\leq 0.5 \text{ kV}$
Short-circuit protection	yes/ cyclic
Voltage drop at I_0	$\leq 1.8 \text{ V}$
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, NPN
Protection class	□
Switching frequency	1 kHz
Design	threaded barrel, M8 x 1
Dimensions	42 mm
Housing material	Metal, V4A (1.4404)
Material active face	Plastic, PP-GF30
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	$3 \times 0.25 \text{ mm}^2$
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) $40 \text{ }^{\circ}\text{C}$
Switching state	LED yellow

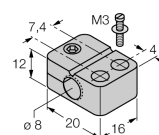
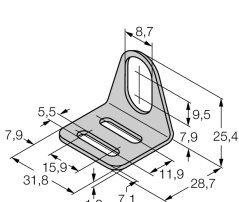
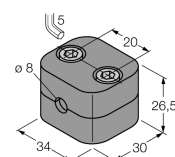
Mounting instructions	minimum distances
Distance D	32 mm
Distance W	18 mm
Distance T	32 mm
Distance S	12 mm
Distance G	36 mm
Distance N	12 mm

Diameter of the active area B	Ø 8 mm
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All non-flush mountable *uprox[®]+* threaded barrel sensors can be screwed to the upper edge of the barrel. Thus safe operation is guaranteed with a reduced switching distance of max. 20 %.

Accessories

Type code	Ident-No.		Dimension drawing
BST-08B	6947210	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	 Technical drawing of the BST-08B fixing clamp. It is a rectangular block with a circular hole on the side. Dimensions: 7.4 (width of top flange), 12 (height of top flange), 4 (height of side flange), 16 (width of side flange), 20 (main body width), 8 (hole diameter), and M3 (thread size of the hole).
MW-08	6945008	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	 Technical drawing of the MW-08 mounting bracket. It is a U-shaped bracket with a central slot. Dimensions: 8.7 (width of top flange), 9.5 (height of top flange), 25.4 (total height), 7.9 (height of side flange), 11.9 (width of side flange), 28.7 (main body width), 7.1 (width of bottom flange), 1.8 (thickness of bottom flange), 15.9 (width of central slot), 31.8 (total width), and 5.5 (height of central slot).
BSS-08	6901322	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	 Technical drawing of the BSS-08 mounting bracket. It is a rectangular block with a circular hole on the side. Dimensions: 20 (width of top flange), 26.5 (height of top flange), 30 (width of side flange), 34 (main body width), 8 (hole diameter), and 5 (height of side flange).