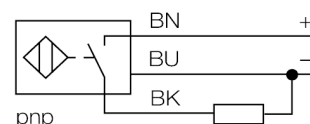


- Threaded barrel, M8 x 1
- Stainless steel, 1.4404
- Factor 1 for all metals
- Protection class IP68
- Magnetic field immune
- High switching distance
- High switching frequency
- Integrated predamping protection
- Limited metal-free spaces
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram

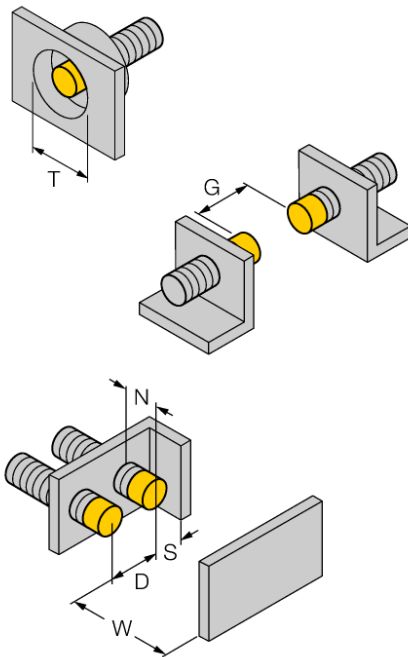


Functional principle

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-AP6X
Ident-No.	4635800
Rated operating distance S_n	6 mm
Mounting condition	non-flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Repeatability	$\leq 2 \%$ $\leq \pm 20 \%, \leq 0^\circ \text{C}$
Hysteresis	3...15 %
Ambient temperature	-25...+70 °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_e	$\leq 1,8 \text{ V}$
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	IP68
Switching frequency	$\leq 1 \text{ kHz}$
Design	threaded barrel, M8 x 1
Dimensions	41.6 mm
Housing material	Metal, V4A (1.4404)
Material active face	Plastic, PP-GF30
End cap	Plastic, PP
Tightening torque of housing nut	10 Nm
Connection	cable
Cable quality	4 mm, LifYY-11Y, PUR, 2m
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	874years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

Mounting instructions	minimum distances
Distance D	32 mm
Distance W	18 mm
Distance T	36 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 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.	Short text	Dimension drawing
BST-08B	6947210	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	
MW-08	6945008	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-08	6901322	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	