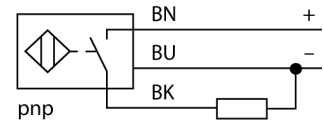


- Threaded barrel, M8 x 1
- Stainless steel, 1.4404
- Factor 1 for all metals
- Protection class IP68
- Magnetic field immune
- High switching distance
- High switching frequency
- Integrated predamping protection
- Limited metal-free spaces
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Cable connection

<b>Type code</b>	NI6U-EG08-AP6X
Ident no.	4635800
<b>Rated operating distance Sn</b>	6 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
	≤ ± 20 %, ≤ 0 °C
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	≤ 10 % U <sub>s</sub>
DC rated operational current	≤ 150 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I <sub>0</sub>	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	☐
Switching frequency	1 kHz
<b>Design</b>	threaded barrel, M8 x 1
Dimensions	42 mm
Housing material	Metal, V4A (1.4404)
Material active face	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	3 x 0.25 mm <sup>2</sup>
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 °C
<b>Switching state</b>	• yellow

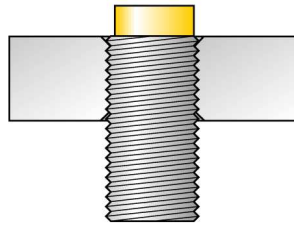
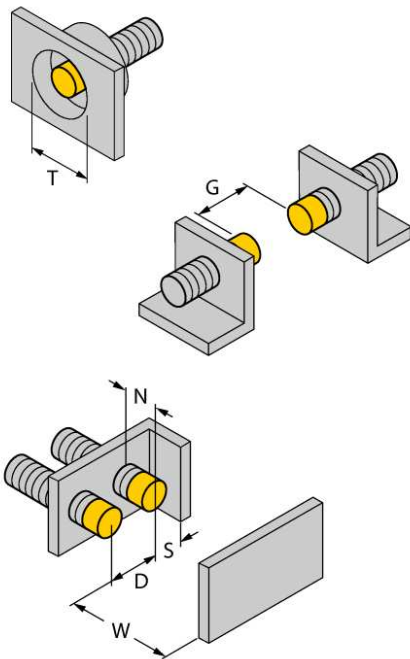
#### Wiring diagram



#### Functional principle

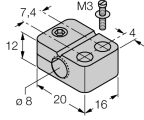
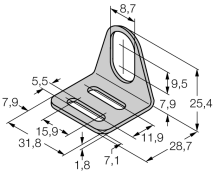
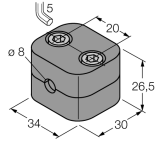
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *Uprox*®+ sensors have distinct advantages compared to conventional sensors. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Distance D	32 mm
Distance W	18 mm
Distance T	36 mm
Distance S	12 mm
Distance G	36 mm
Distance N	12 mm
<hr/>	
Diameter of the active area B	Ø 8 mm



All non-flush mountable *uprox<sup>®</sup>+* 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.	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 base), 11.9 (width of base), 28.7 (width of base), 1.8 (thickness of base), 7.1 (width of base), 15.9 (width of base), 31.8 (width of base), 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 of lip), 20 (width of lip), 26.5 (height of body), 34 (width of body), 30 (width of body), and 8 (width of lip).</p>