

- M8 × 1 threaded barrel
- Stainless steel, 1.4404
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- High switching frequency
- Integrated protection against pre-attenuation
- Little metal-free spaces
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Pigtail with male end M12 x 1

Type designation	NI6U-EG08-AP6X-0.3-RS4T
Ident-No.	4635887

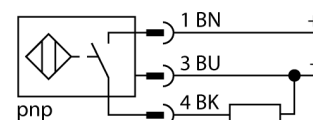
Rated switching distance S_n	6 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0,81 \times S_n)$ mm
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
	$\leq \pm 20\%, \leq 0^\circ\text{C}$
Hysteresis	3...15 %
Ambient temperature	-30...+85 °C

Operating voltage	10...30 VDC
Residual ripple	$\leq 10\% U_{ss}$
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes/ Cyclic
Voltage drop at I_0	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
Insulation class	□
Switching frequency	1 kHz

Design	Threaded barrel, M8 × 1
Dimensions	41.6 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF30
End cap	Plastic, PP
Material coupling nut	metal, CuZn, nickel-plated
Max. tightening torque housing nut	5 Nm
Electrical connection	Cable with connector, M12 × 1
Cable quality	Ø 4mm, LiYY-11Y, PUR, 0.3 m
Core cross-section	3 x 0.25 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 °C

Switching state	LED, Yellow
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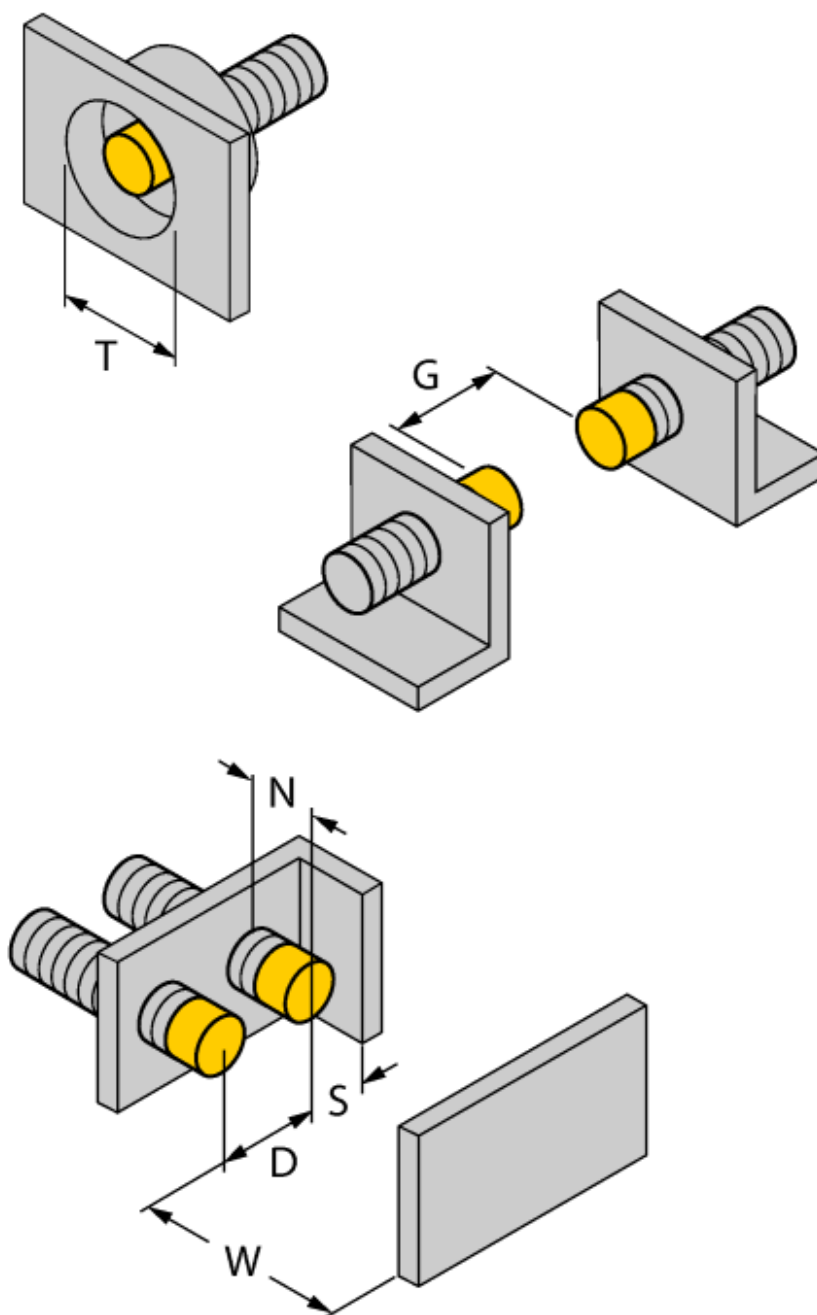
Wiring Diagram



Functional principle

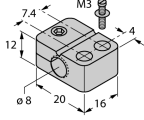
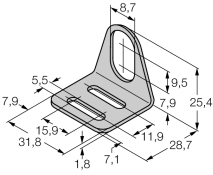
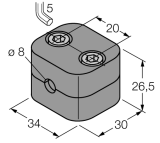
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox[®]+* sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

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
Diameter active area B	Ø 8 mm



All non-flush mountable *uprox[®]+* threaded barrel sensors can be screwed in up to the top edge of the barrel. In this mounting position, the sensor operates safely with a 20 % reduced switching distance.

Accessories

Type code	Ident-No.	Description	
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	
MBS80	69479	Mounting bracket for threaded barrel devices; material mounting block: Anodized aluminium	