

- Threaded barrel, M8 x 1
- Stainless steel, 1.4427 SO
- 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
- M8 x 1 male connector

Type designation NI6U-EG08-AP6X-V1131
Ident no. 4635801

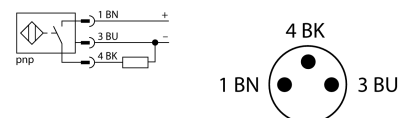
Rated switching distance S_n 6 mm
Mounting conditions non-flush
Assured switching distance $\leq (0,81 \times S_n)$ mm
Repeatability $\leq 2\%$ of full scale
Temperature drift $\leq \pm 10\%$
 $\leq \pm 20\%, \leq 0^\circ\text{C}$
Hysteresis 3...15 %
Ambient temperature -25...+70 °C

Operating voltage 10... 30VDC
Residual ripple $\leq 10\% U_{ss}$
DC rated operational current $\leq 150\text{ mA}$
No-load current I_o $\leq 15\text{ mA}$
Residual current $\leq 0,1\text{ mA}$
Isolation test voltage $\leq 0,5\text{ kV}$
Short-circuit protection yes/ cyclic
Voltage drop at I_o $\leq 1,8\text{ V}$
Wire breakage / Reverse polarity protection yes/ complete
Output function 3-wire, NO contact, PNP
Protective insulation 
Switching frequency 1 kHz

Construction Threaded barrel, M8 x 1
Dimensions 49 mm
Housing material Stainless steel, 1.4427 SO
Active area material Plastic, PA12-GF30
Max. tightening torque housing nut 5 Nm
Electrical connection Flange connector, M8 x 1
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

Wiring Diagram

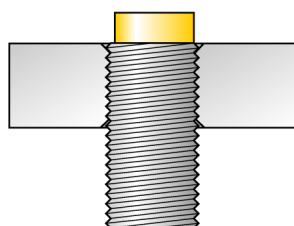
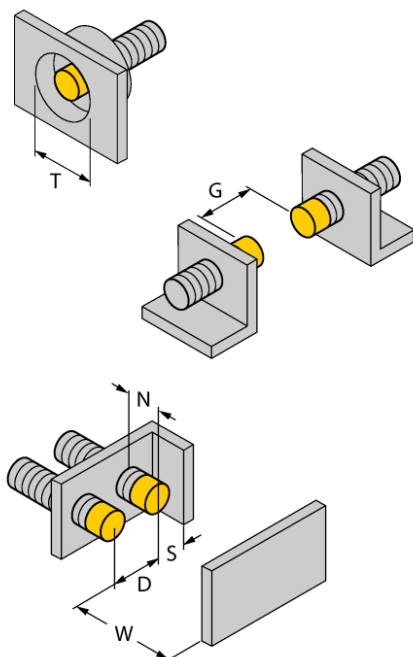


Functional principle

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	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 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	

Wiring accessories

Type code	Ident no.	Description
PKG3M-2/TEL	6625385	Connection cable, female M8, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com