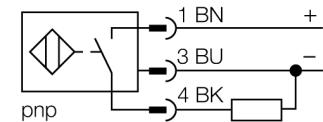


- Threaded barrel, M30 x 1.5
- Brass, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- High switching distance
- Integrated protection against pre-attenuation
- Little metal-free spaces
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Male M12 x 1

Type code	NI30U-MT30-AP6X-H1141
Ident no.	1646633
Rated operating distance Sn	30 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3...15 %
Ambient temperature	-30...+85 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _s
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation 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
Protection class	☐
Switching frequency	1 kHz
Design	threaded barrel, M30 x 1.5
Dimensions	62 mm
Housing material	metal, CuZn, PTFE-coated
Material active area	Plastic, LCP, PTFE-coated
Max. tightening torque housing nut	75 Nm
Connection	male, M12 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	135 mm
Distance W	90 mm
Distance T	90 mm
Distance S	45 mm
Distance G	180 mm
Distance N	30 mm

Diameter of the active area B Ø 30 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 %.

When installed in an aperture plate a distance of X = 140 mm must be observed.

Accessories

Type code	Ident no.	Description	Dimension drawing
QMT-30	6945105	Quick-mount bracket with dead-stop; material: brass, PTFE-coated; male thread M36 x 1.5. Note: The switching distance of the proximity switches may reduce when using quick-mount brackets.	
BST-30B	6947216	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	
BSS-30	6901319	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	