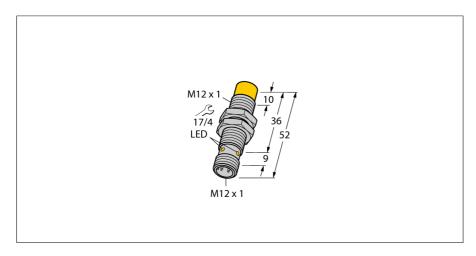


Inductive sensor NI10U-M12-AP6X-H1141





Ident no.	N110U-M12-AP6X-H1141 1634806	
Rated switching distance Sn	10 mm	
Mounting conditions	non-flush	
Assured switching distance	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 % of full scale	
Temperature drift	≤ ± 10 %	
	\leq ± 15 %, \leq -25 °C v \geq +70 °C	

Hysteresis 3...15 %
Ambient temperature -30...+85 °C

Operating voltage 10... 30VDC Residual ripple < 10 % U... DC rated operational current ≤ 200 mA No-load current Io ≤ 20 mA Residual current $\leq 0.1 \text{ mA}$ Rated insulation voltage $\leq 0.5 \; kV$ yes/ cyclic Short-circuit protection Voltage drop at I. \leq 1.8 V Wire breakage / Reverse polarity protection yes/ complete Output function 3-wire, NO contact, PNP

Protective insulation

Switching frequency

2 kHz

 Construction
 threaded barrel, M12 x 1

 Dimensions
 52 mm

 Housing material
 Metal, CuZn, chrome-plated

Active area material Plastic, LCP Max. tightening torque housing nut 10 Nm

Connection flange connector, M12 x 1

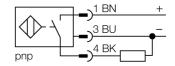
Vibration resistance55 Hz (1 mm)Shock resistance30 g (11 ms)Protection classIP68

MTTF 874 years acc. to SN 29500 (Ed. 99) 40 °C

Switching state LED yellow

- Threaded barrel, M12 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- Integrated protection against pre-attenuation
- Little metal-free spaces
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

Wiring Diagram



Functional principle

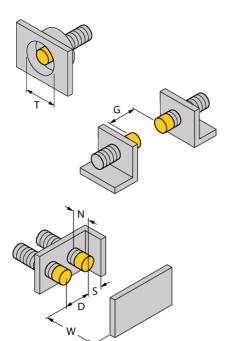
Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

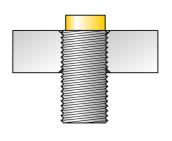


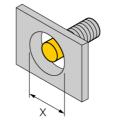
Inductive sensor NI10U-M12-AP6X-H1141



Distance D	48 mm
Distance W	3 x Sn
Distance T	45 mm
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter of the active area B	Ø 12 mm







All recessed mountable *uprox*®+ threaded barrel sensors can be embedded to the upper edge of the thread. Thus safe operation is guaranteed with a reduced switching distance of max. 20 %.

When installed in an aperture plate a distance of X = 50 mm must be observed.





Accessories

Type code	Ident no.	Description	Design
QM-12	6945101	Quick-mount bracket with dead-stop; material: Chrome-plated brass Male thread M16 x 1. Note: The switching distance of proximity switches can be reduced by the use of quick-mount brackets.	0 12 19,5 34
BST-12B	6947212	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	20 28 40 18 18 18 30 18
MW-12	6945003	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	9.5 19.1 18.7 18.7 14.3 34.8
BSS-12	6901321	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	o 12 20 20 20 30 30 30

Wiring accessories

Type code	Ident no.	Description	Design
RKC4T-2/TEL	6625010	Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	