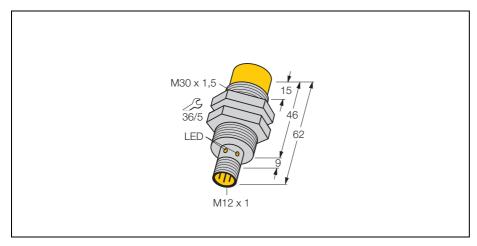


Inductive sensor Ni30U-EM30-AN6X-H1141

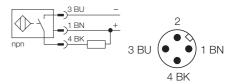




Туре	Ni30U-EM30-AN6X-H1141		
Ident-No.	1644636		
Rated operating distance Sn	30 mm		
Mounting condition	non-flush		
Assured sensing range	≤ (0,81 x Sn) mm		
Repeatability	≤ 2 %		
Temperature drift	≤ ± 10 %		
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C		
Hysteresis	3 15 %		
Ambient temperature	-30+ 85 °C		
Operating voltage	10 30VDC		
Residual ripple	≤ 10 % U _{ss}		
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 _e	≤ 1.8V		
Wire breakage / Reverse polarity protection	yes / complete		
Output function	3-wire, normally open, npn		
Insulation class			
Switching frequency	≤0.5 kHz		
Housing	threaded barrel, M30 x 1.5		
Dimensions	62 mm		
Housing material	metal, AISI 304		
Material active face	plastic, LCP-GF30		
Tightening torque of housing nut	75 Nm		
Connection	Connectors, M12 x 1		
Vibration resistance	55 Hz (1 mm)		
Shock resistance	30g (11 ms)		
Degree of protection	IP68		
Display switch state	LED yellow		

- threaded barrel, M30 x 1.5
- stainless steel, 1.4301
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- high switching distance
- integrated predamping protection
- small metal-free zones
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M12 x 1

Wiring diagram



Functional principle

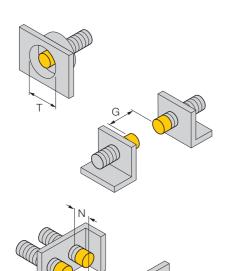
Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

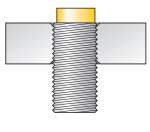


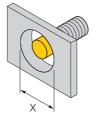
Inductive sensor Ni30U-EM30-AN6X-H1141



Mounting instructions	minimum distances	
Distance D	90 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 switches allow embedded mounting up to the upper edge of the thread. Thus safe operation with a maximum reduction of the switching distance of 20 % is guaranteed.

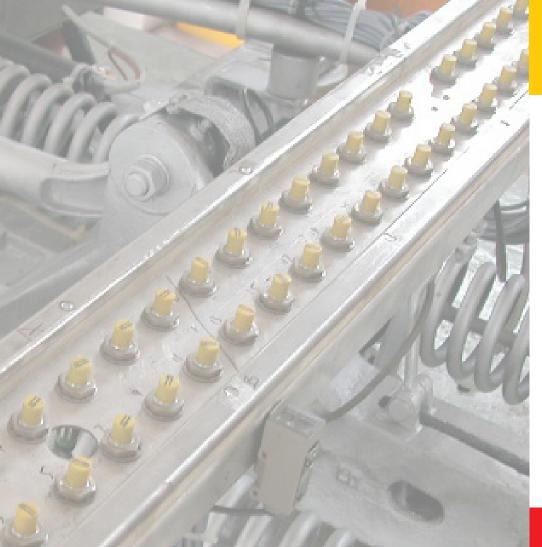
When installing in an aperture plate a clearance of X = 140 mm must be observed.





Accessories

Type code	Ident-	Short text	Dimension drawing
	No.		
MW-30	6945005	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	20.5 10.1 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5
BSS-30	6901319	fixing clamp; material: polypropylene	a 20 41



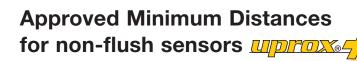


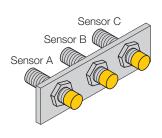
Industrial Automation

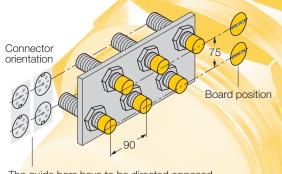
MINIMUM DISTANCES BETWEEN NON-FLUSH SENSORS



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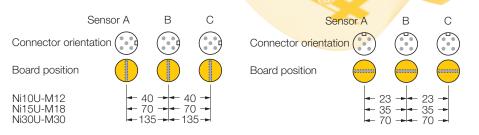




The guide bars have to be directed opposed or towards each other!

Position under high interference

Position under low interference



All dimensions in mm.

Hans Turck GmbH & Co. KG Witzlebenstraße 7

45472 Mülheim an der Ruhr, Germany

Tel. +49 (0) 2 08 49 52-0, Fax +49 (0) 2 08 49 52-2 64 E-Mail more@turck.com Internet www.turck.com