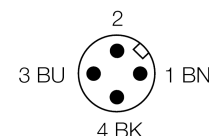
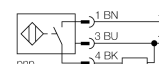


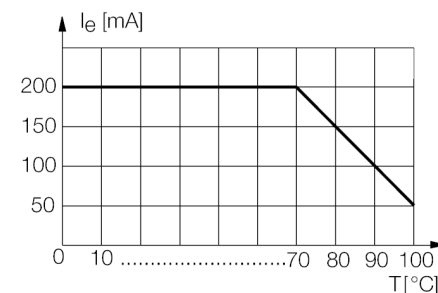
- Threaded barrel, M30 x 1.5
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer Vectra C130
- Factor 1 for all metals
- Magnetic field immune
- For temperatures of -40 °C up to +100 °C
- High protection class IP69K for rough ambient conditions
- Special double-lip seal
- Protection against all common acid and alkaline cleaning agents
- Laser engraved label, permanently legible
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 connector

Wiring diagram



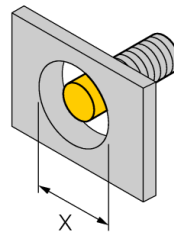
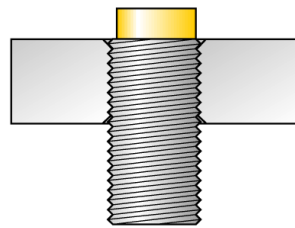
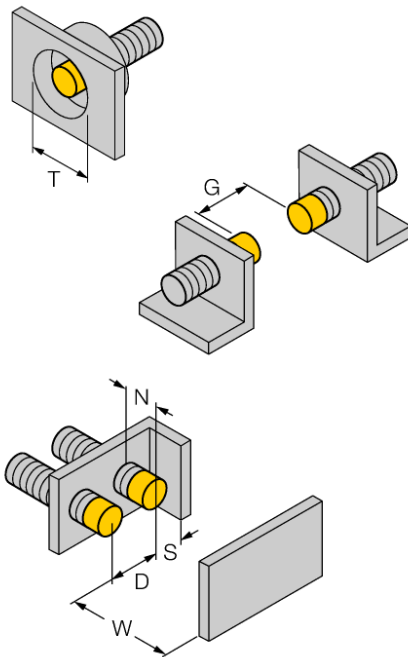
Functional principle

The inductive sensors for the food industry are absolutely watertight and resistant to cleaning agents and disinfectants. The requirements of the protection classes IP68 and IP69K are well exceeded by our uprox⁺ sensors. The sensors are well protected by an LCP front cap and a stainless steel housing.



Type	NI30U-EM30WD-AP6X-H1141
Ident-No.	1634822
Rated operating distance Sn	30 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 20 %, ≤ -25 °C , ≥ +70 °C
Ambient temperature	3...15 %
	-40...+100 °C
Operating voltage	10...30 VDC
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	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	IP68 / IP69K
Switching frequency	≤ 0.5 kHz
Design	threaded barrel, M30 x 1.5
Dimensions	62 mm
Housing material	Metal, V4A (1.4404)
Material active face	Plastic, LCP-GF30
Connector housing	plastic, PP
Admissible pressure on front cap	≤ 10 bar
Tightening torque of housing nut	75 Nm
Connection	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 / IP69K
Switching state	LED yellow

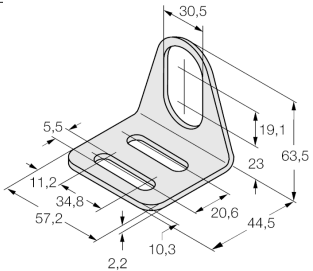
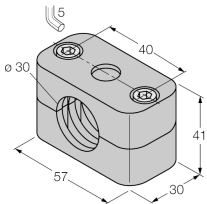
Mounting instructions	minimum distances
Distance D	135 mm
Distance W	90 mm
Distance T	90 mm
Distance S	45 mm
Distance G	180 mm
Distance N	30 mm
Diameter of the active area B	Ø 30 mm



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

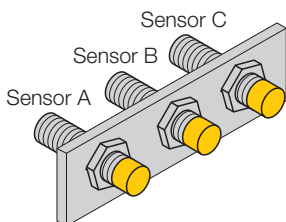
Type code	Ident-No.	Short text	Dimension drawing
MW-30	6945005	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	 
BSS-30	6901319	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	

MINIMUM DISTANCES BETWEEN NON-FLUSH SENSORS

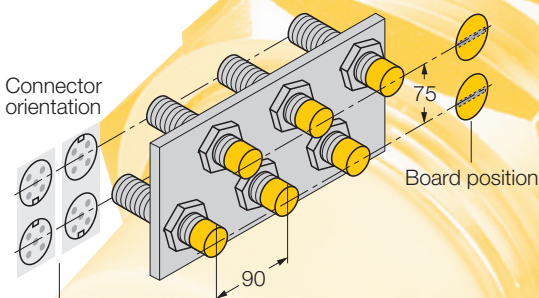
uprox®+

www.turck.com

Approved Minimum Distances for non-flush sensors **uprox®+**



Connector
orientation



Position under high interference

	Sensor A	B	C
Connector orientation			
Board position			
Ni10U-M12	40	40	
Ni15U-M18	70	70	
Ni30U-M30	135	135	

Position under low interference

	Sensor A	B	C
Connector orientation			
Board position			
	23	23	
	35	35	
	70	70	

All dimensions in mm.

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