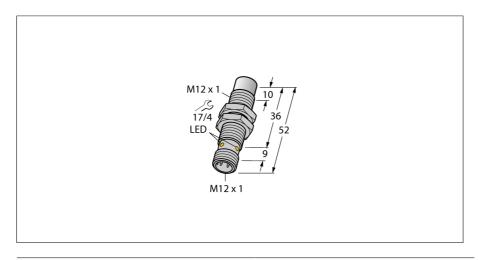


Inductive sensor For the food industry NI10U-EM12WD-AP6X-H1141





Ident no.	1634814	
Rated switching distance Sn	10 mm	
Mounting conditions	non-flush	
Assurad awitahing diatance	< (0.91 v Sn) mm	

Assured switching distance \leq (0,81 x Sn) mm Repeatability \leq 2 % of full scale Temperature drift ≤ ± 10 % \leq ± 20 %, \leq -25 °C , \geq +70 °C

3...15 % Hysteresis Ambient temperature -40...+100 °C

10...30VDC Operating voltage Residual ripple < 10 % U... DC rated operational current ≤ 200 mA No-load current I. < 20 mA Residual current $\leq 0.1 \text{ mA}$ Rated insulation voltage $\leq 0.5 \; kV$ Short-circuit protection yes/ cyclic Voltage drop at I. ≤ 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 stainless steel, V4A (1.4404)

Material active area plastic, LCP plastic, PP Connector housing ≤ 20 bar Admissible pressure on front cap Max. tightening torque housing nut 10 Nm Connection male, M12 x 1 Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms)

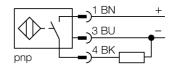
IP Rating MTTF 874 years acc. to SN 29500 (Ed. 99) 40 °C

IP68 / IP69K

Switching state LED yellow

- Threaded barrel, M12 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal poly-
- Factor 1 for all metals
- Resistant to magnetic fields
- Temperatures -40 °C ... +100 °C
- High protection class IP69K, for harsh environments
- 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 male connector

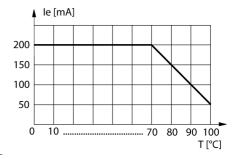
Wiring diagram



Functional principle

The inductive sensors for the food industry are absolutely tight 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 entirely protected by the LCP front cap and the stainless steel housing.

Derating curve

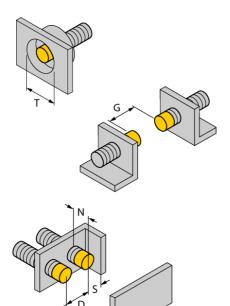


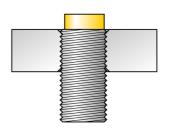


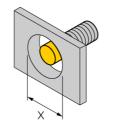
Inductive sensor For the food industry NI10U-EM12WD-AP6X-H1141



Distance D	48 mm	
Distance W	30 mm	
Distance T	48 mm	
Distance S	18 mm	
Distance G	60 mm	
Distance N	16 mm	
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.



Inductive sensor For the food industry NI10U-EM12WD-AP6X-H1141



Accessories

Type code	Ident no.	Description	Design
MW-12	6945003	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	9,5 13,9 13,9 38,1 1,8 7,9
BSS-12	6901321	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	0 12 26.5 34 30

Wiring accessories

Type code	Ident no.	Description	Design
RKCV4T-2/TEL	6626900		M12x1