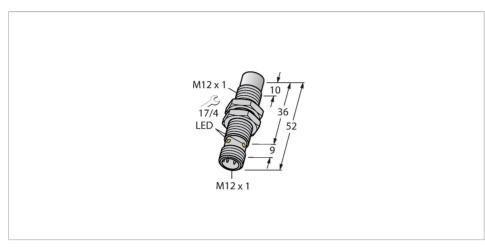


NI10U-EM12WD-AP6X-H1141 Inductive Sensor – For the food industry



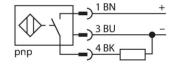
Technical data

Туре	NI10U-EM12WD-AP6X-H1141
ldent. no.	1634814
Rated switching distance	10 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C , ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-40+100 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current	≤ 20 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 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
Insulation class	
Switching frequency	2 kHz
Design	Threaded barrel, M12 \times 1
Dimensions	52 mm

Features

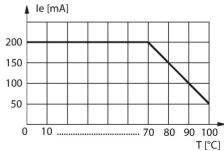
- Threaded barrel, M12 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer
- Factor 1 for all metals
- Resistant to magnetic fields
- For temperatures of -40 °C...+100 °C
- High protection class IP69K for harsh environments
- Special double-lip seal
- Protection against all common acidic 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.



NI10U-EM12WD-AP6X-H1141 05/27/2020 11-36 | technical changes reserved

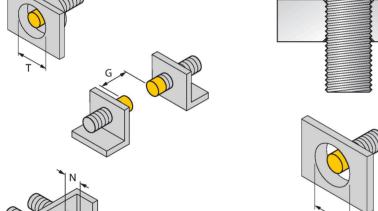


Technical data

Stainless steel, V4A (1.4404)
Plastic, LCP
plastic, PP
≤ 20 bar
10 Nm
Connector, M12 × 1
55 Hz (1 mm)
30 g (11 ms)
IP68 / IP69K
874 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Yellow

Mounting instructions

Mounting instructions/Description



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 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

MW12

12.7

12.7

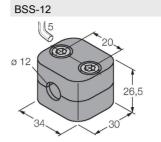
13.9 38.1

13.1 34.8

6945003

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

Type RKH4-2/TFE



6901321

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

Wiring accessories

Dimension drawing

M12×1 🔑 14	
	8
44	
**	

Ident. no. 6935482

Connection cable, M12 female, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray temperature range -25...+80 °C; other cable lengths and designs available, see www.turck.com

RKH4-2/TFG

6934384

Connection cable, M12 female, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray temperature range -40...+105 °C; other cable lengths and designs available, see www.turck.com

