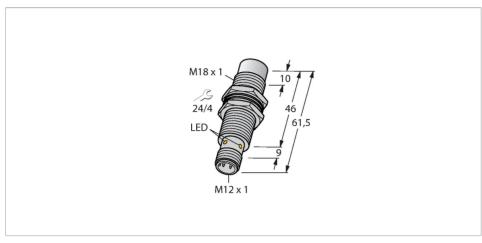


NI15U-EM18MWD-VP6X-H1141 Inductive Sensor – For the Food Industry



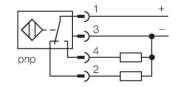
Technical data

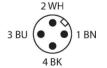
Туре	NI15U-EM18MWD-VP6X-H1141		
ldent. no.	1634979		
Rated switching distance	15 mm		
Mounting conditions	Non-flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ± 10 %		
	≤ ± 20 %, ≤ -25 °C , ≥ +70 °C		
Hysteresis	315 %		
Ambient temperature	-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 _e	≤ 1.8 V		
Wire breakage/Reverse polarity protection	yes / Complete		
Output function	4-wire, Complementary contact, PNP		
Insulation class			
Switching frequency	1.5 kHz		
Design	Threaded barrel, M18 × 1		
Dimensions	61.5 mm		

Features

- Threaded barrel, M18 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 4-wire, 10...30 VDC
- Changeover contact, PNP output
- M12 x 1 male connector

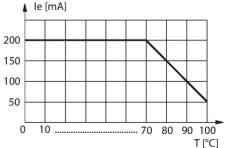
Wiring diagram





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.



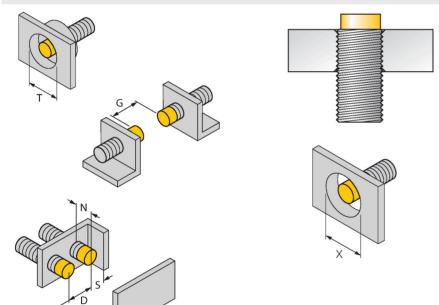


Technical data

Housing material	Stainless steel, V4A (1.4404)
Active area material	Plastic, LCP
Connector housing	plastic, PP
Admissible pressure on front cap	≤ 15 bar
Max. tightening torque housing nut	25 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 / IP69K
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description



Distance D	72 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 18 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 = 70 mm must be observed.

NI15U-EM18MWD-VP6X-H1141| 05/27/2020 12-49 | technical changes reserved



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Accessories

MW18

19,7

15,9

19,1

10,8

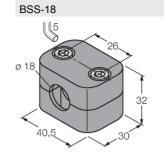
25,4

44,5

14,3

34,8

6945004 Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



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

Wiring accessories

Dimension drawing	Type	ldent. no.	
M12 x 1 25 14	RKH4.4-2/TFE	6934473	Connection cable, M12 female, straight, 4-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
M12 x 1 1/5 14	RKH4.4-2/TFG	6933086	Connection cable, M12 female, straight, 4-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