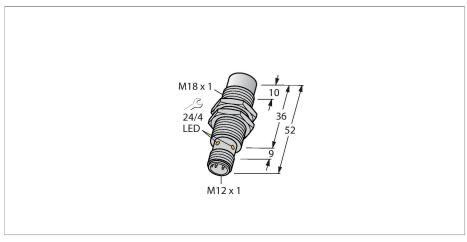


NI15U-EM18WD-AN6X-H1141 Inductive Sensor – For the Food Industry



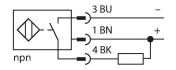
Technical data

Туре	NI15U-EM18WD-AN6X-H1141	
ID	1634835	
General data		
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 %	
Electrical data		
Operating voltage U _B	1030 VDC	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _o	≤ 200 mA	
No-load current	≤ 25 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 break/reverse polarity protection	yes/Complete	
Output function	3-wire, NO contact, NPN	
DC field stability	300 mT	
AC field stability	300 mT _{ss}	
Insulation class		
Switching frequency	1 kHz	
Mechanical data		
Design	Threaded barrel, M18 x 1	

Features

- ■M18 × 1 threaded barrel
- 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, NPN output
- ■M12 x 1 male connector

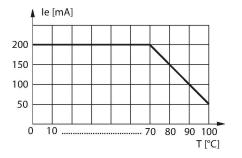
Wiring diagram





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.



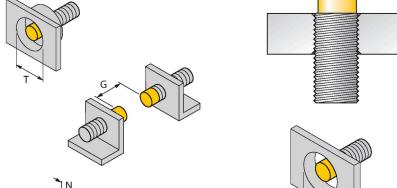


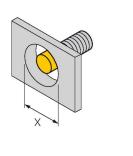
Technical data

Dimensions	52 mm		
Housing material	Stainless steel, 1.4404 (AISI 316L)		
Active area material	Plastic, LCP		
Connector housing	plastic, PP		
Admissible pressure on front cap	≤ 15 bar		
Max. tightening torque of housing nut	25 Nm		
Electrical connection	Connector, M12 × 1		
Environmental conditions			
Ambient temperature	-40+100 °C		
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







С	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 Irea B	Ø 18 mm

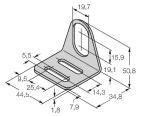
All non-flush mountable uprox®+ threaded barrel sensors can be screwed to the upper edge of the barrel. In this mounting position, the sensor operates safely with a 20 % reduced switching distance.

When installed in an aperture plate, a distance of X = 70 mm must be observed.

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Accessories

MW18 6945004

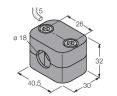


Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

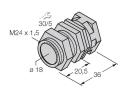


6901320

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



QM-18 6945102



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

Accessories

Dimension drawing	Туре	ID	
M12 x 1 1/2 14	RKH4-2/TFE	6935482	Connection cable, M12 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray; temperature range: -25+80 °C
MI2x1 2/2 14	RKH4-2/TFG	6934384	Connection cable, M12 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature range: -40+105 °C