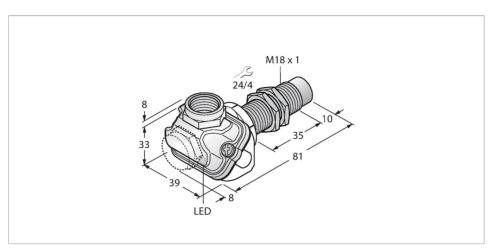


# NI15U-EM18WDTC-AP6X Inductive Sensor – For the Food Industry



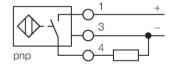
# Technical data

Туре	NI15U-EM18WDTC-AP6X
ldent. no.	1634763
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 <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current	≤ 15 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	1.5 kHz
Design	Threaded barrel, M18 $\times$ 1
Dimensions	81 mm

# **Features**

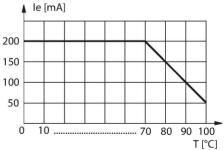
- Threaded barrel, M18 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer
- Factor 1 for all metals
- Resistant to magnetic fields
- For temperatures of -40 °C...+100 °C
- High protection class IP69K for harsh environments
- Special double-lip seal
- Protection against all common acidic and alkaline cleaning agents
- Suitable for applications in the food industry
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Terminal chamber

# Wiring diagram



# Functional principle

uprox®+ sensors from TURCK are the perfect solution for dairies, breweries, industrial bakeries, frozen food, packaging and filling applications. They are absolutely tight and resistant to cleaning agents and disinfectants and well exceed the rerquirements of the protection classes IP68 and IP69K thanks to the LCP front cap and the stainless steel housing.



NI15U-EM18WDTC-AP6X| 05/27/2020 11-34 | technical changes reserved

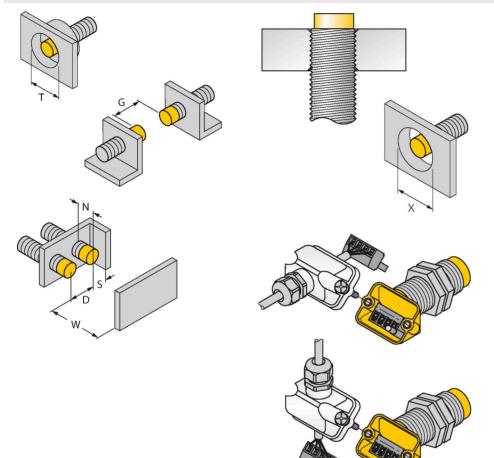


# Technical data

plastic, Ultem plastic, LCP-GF30
<u> </u>
Plastic, LCP
≤ 15 bar
25 Nm
Terminal chamber, Removable cage clamp terminals
suited for M16 x 1.5 cable glands
≤ 1.5 mm²
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	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 %.

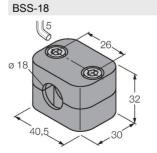
When installed in an aperture plate a distance of X = 50 mm must be observed.

The innovative terminal chamber concept enables simple and comfortable connection of the sensor. Straight as well as angeled cable outlets are available and the removable terminal strip guarantees easy wiring.

# Accessories

# MW18 19,7 15,9 19,1 19,1 10,8

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