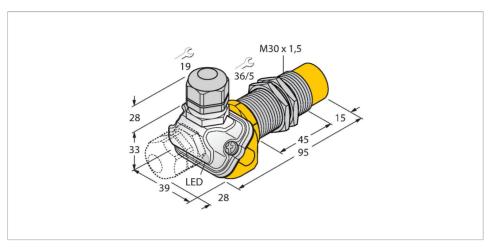


NI30U-EM30WDTC-AP6X Inductive Sensor – For the Food Industry



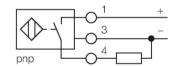
Technical data

Туре	NI30U-EM30WDTC-AP6X
Ident. no.	1634765
Rated switching distance	30 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	≤ 15 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	3-wire, NO contact, PNP
Insulation class	
Switching frequency	0.5 kHz
Design	Threaded barrel, M30 \times 1.5
Dimensions	95 mm

Features

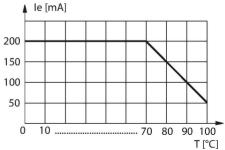
- Threaded barrel, M30 x 1.5
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer
- Factor 1 for all metals
- Resistant to magnetic fields
- For temperatures of -40 °C...+100 °C
- High protection class IP69K for harsh environments
- Special double-lip seal
- Protection against all common 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.



NI30U-EM30WDTC-AP6X| 05/27/2020 11-34 | technical changes reserved

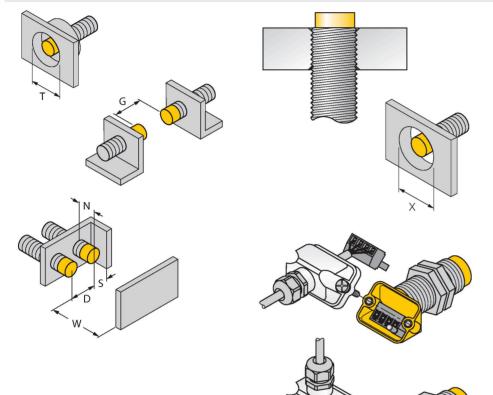


Technical data

Housing material	Stainless steel, V4A (1.4404)
Terminal chamber cover material	plastic, Ultem
Terminal chamber housing material	plastic, LCP-GF30
Active area material	Plastic, LCP
Admissible pressure on front cap	≤ 10 bar
Max. tightening torque housing nut	75 Nm
Electrical connection	Terminal chamber, Removable cage clamp terminals
	suited for M16 x 1.5 cable glands
Clamping ability	≤ 1.5 mm²
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

Mounting instructions

Mounting instructions/Description



Distance D	135 mm
Distance W	90 mm
Distance T	90 mm
Distance S	45 mm
Distance G	180 mm
Distance N	30 mm
Diameter active area B	Ø 30 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 %.

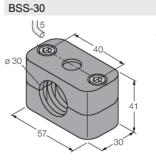
When installed in an aperture plate a clearance of X = 50 mm must be observed.

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

MW30 5,5 11,2 23, 63,5 34,8 57,2 20,6 44,5

6945005 Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



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

6901319