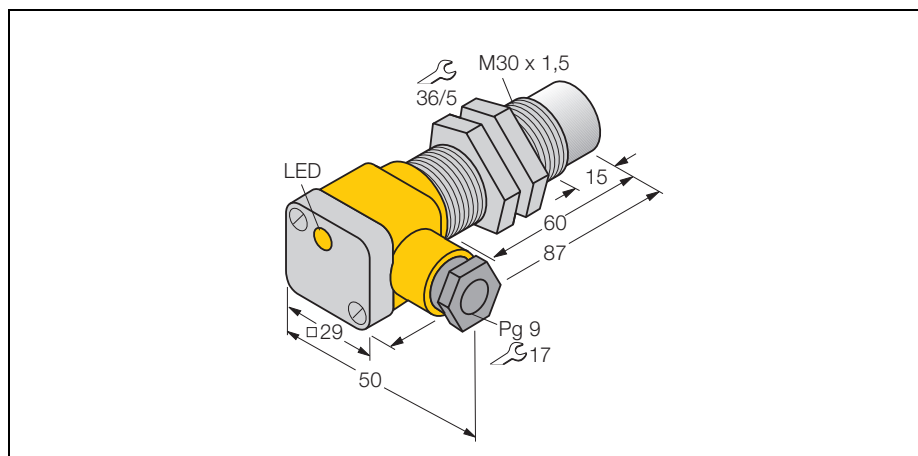


Inductive sensor for harsh environmental conditions Ni20-EM30WDSK-AP6X



Type Ni20-EM30WDSK-AP6X
Ident-No. 4653421

Rated operating distance S_n 20 mm
Mounting mode non-flush
Hysteresis (switching distance) 3... 15 %
Min. repeat accuracy ≤ 2 %
Temperature drift $\leq \pm 10$ %
Operating temperature -25 ... + 85 °C

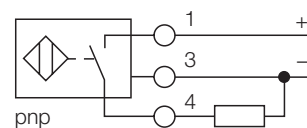
Rated operational voltage (DC) U_B 10... 30 VDC
Max. ripple ≤ 10 % U_{pp}
Rated operational current (DC) I_e ≤ 200 mA
No-load current I_0 ≤ 15 mA
Max. OFF-state current $\leq 0,1$ mA
Max. switching frequency $\leq 0,5$ kHz
Rated insulation voltage $\leq 0,5$ kV
Output function 3-wire, normally open, PNP
Short-circuit protection yes, cyclic
Max. voltage drop at I_e $\leq 1,8$ V
Wire breakage / reverse polarity protection yes / complete

Housing style threaded barrel; M30 x 1,5
Dimensions 87 mm
Housing material metal, A2 1.4301 (AISI 304)
Active face plastic, PVDF
Rated pressure on frontcap ≤ 10 bar
Max. fixing torque of coupling nut 100 Nm
Wiring terminal chamber
External diameter cable 4,5... 8 mm
Vibration resistance 55 Hz (1 mm)
Shock resistance 30 x g (11 ms)
Degree of protection IP68 - IP69K

Switching status indication LED yellow
Included with sensor cable gland, 2x plastic seals

- threaded barrel, M30 x 1,5
- stainless steel, 1.4301
- degree of protection IP68 - IP69K
- front cap made of PVDF
- resistant to cleaning agents
- resistant to cooling lubricants, cutting and grinding oils
- Viton O-ring seal
- suited for applications in the food industry
- 3-wire DC, 10...30 VDC
- normally open pnp output
- terminal chamber

Wiring diagram



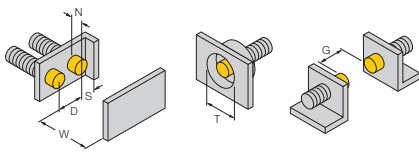
Function principles

TURCK offers fully impermeable sensors with resistance to cleaning agents, cooling lubricants and cutting and grinding oils for application in the food industry and machine engineering. TURCK's inductive sensors for extremely hostile industrial environments not only meet, but even exceed the requirements of protection degree IP68 and IP69. These robust sensors are securely protected by means of a PVDF front cap, a special Viton seal and a stainless steel housing.

Inductive sensor for harsh environmental conditions Ni20-EM30WDSK-AP6X

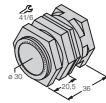
Mounting instructions	minimum gap
Gap D	3 x B
Gap W	3 x Sn
Gap T	3 x B
Gap S	1,5 x B
Gap G	6 x Sn
Gap N	20 mm

Diameter of active face B	Ø 30 mm
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Inductive sensor for harsh environmental conditions Ni20-EM30WDSK-AP6X

Accessories

Typ	Ident-No.	Description	Dimension drawing
QM-30	6945103	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M36 x 1,5.	
BST-30B	6947216	fixing clamp with dead-stop; material: PA6	