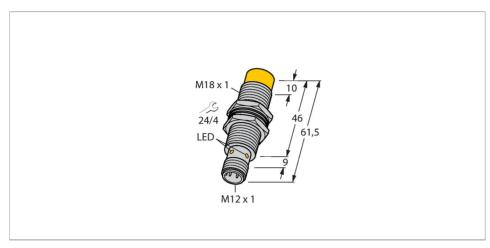


NI12U-EM18M-VP4X-H1141 **Inductive Sensor**



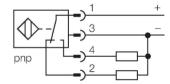
Technical data

Туре	NI12U-EM18M-VP4X-H1141
Ident. no.	1581459
Rated switching distance	12 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-30+85 °C
Operating voltage	1065 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	4-wire, Complementary contact, PNP
Insulation class	
Switching frequency	2 kHz
Design	Threaded barrel, M18 × 1
Dimensions	61.5 mm

Features

- ■Threaded barrel, M18 x 1
- Stainless steel, 1.4301
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 4-wire, 10...65 VDC
- Changeover contact, PNP output
- ■M12 x 1 male connector

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free

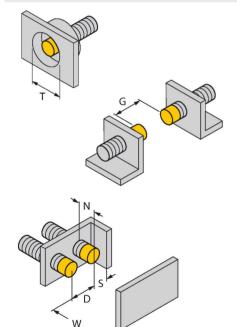


Technical data

Housing material	Stainless steel, 1.4301 (AISI 304)
Active area material	Plastic, PBT
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description



Distance D	54 mm
Distance W	36 mm
Distance T	65 mm
Distance S	27 mm
Distance G	72 mm
Distance N	24 mm
Diameter active area B	Ø 18 mm



6901320

Accessories

MW-18

5.5

19.7

19.7

19.1

50.8

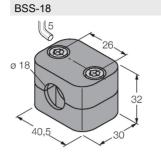
44.6

14.3

34.8

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

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