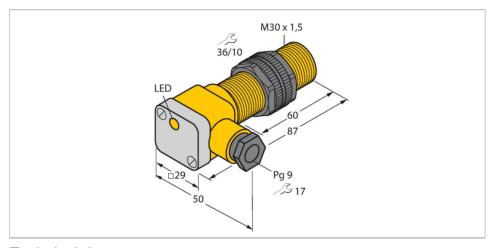


NI15-P30SK-AN6X2 Inductive Sensor



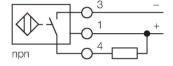
Technical data

General data Rated switching distance 15 Mounting conditions No Secured operating distance ≤ € Correction factors St	5 mm on-flush (0.81 × Sn) mm t37 = 1; Al = 0.3; stainless steel = 0.7; Ms 0.4 2 % of full scale
Rated switching distance 15 Mounting conditions No Secured operating distance ≤ € Correction factors St	on-flush (0.81 × Sn) mm t37 = 1; Al = 0.3; stainless steel = 0.7; Ms 0.4
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Correction factors St	t37 = 1; AI = 0.3; stainless steel = 0.7; Ms 0.4
	0.4
	2 % of full scale
Repeat accuracy ≤ 2	_ ,
Hysteresis 3.	15 %
Electrical data	
Operating voltage U _B 10)30 VDC
Ripple U _{ss} \leq	10 % U _{Bmax}
DC rated operating current I _e ≤ 2	200 mA
No-load current ≤	15 mA
Residual current ≤	0.1 mA
Isolation test voltage 0.8	5 kV
Short-circuit protection ye	es/Cyclic
Voltage drop at I _e ≤	1.8 V
Wire break/reverse polarity protection ye	es/Complete
Output function 3-	wire, NO contact, NPN
Switching frequency 0.8	5 kHz
Mechanical data	
Design Th	nreaded barrel, M30 x 1.5

Features

- ■Threaded barrel, M30 x 1.5
- Plastic, PA12-GF30
- ■DC 3-wire, 10...30 VDC
- ■NO contact, NPN output
- ■Terminal chamber

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

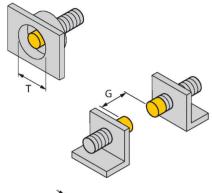


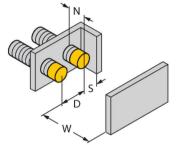
Technical data

Dimensions	87 mm
Housing material	Plastic, PA12-GF30
Terminal chamber cover material	plastic, Ultem
Terminal chamber housing material	plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
Max. tightening torque of housing nut	5 Nm
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Cable external diameter	4.58 mm
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Yellow
Included in delivery	cable gland; 2x plastic seals

Mounting instructions

Mounting instructions/Description

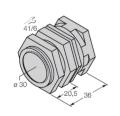




Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	20 mm
Diameter active area B	Ø 30 mm

Accessories

QM-30 6945103



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

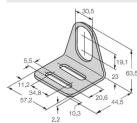


Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

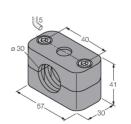
6947216

6901319

MW30 6945005



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



BSS-30

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