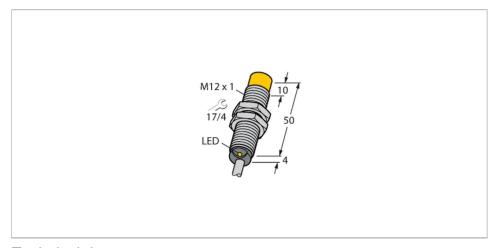


NI5-G12-RP6X Inductive Sensor



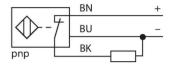
Technical data

Type	NI5-G12-RP6X
ID	4635694
General data	
Rated switching distance	5 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 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 break/reverse polarity protection	yes/Complete
Output function	3-wire, NC contact, PNP
Switching frequency	1.5 kHz
Mechanical data	
Design	Threaded barrel, M12 x 1

Features

- ■Threaded barrel, M12 x 1
- Chrome-plated brass
- ■DC 3-wire, 10...30 VDC
- ■NC contact, PNP output
- Cable connection

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.

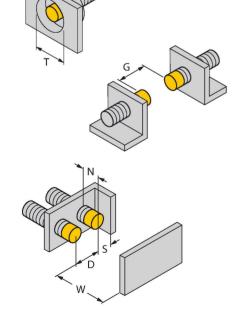


Technical data

Dimensions	54 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PA12-GF30
End cap	Plastic, EPTR
Max. tightening torque of housing nut	10 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	3 x 0.34 mm²
Environmental conditions	
Livilorital collations	
Ambient temperature	-25+70 °C
	-25+70 °C 55 Hz (1 mm)
Ambient temperature	
Ambient temperature Vibration resistance	55 Hz (1 mm)
Ambient temperature Vibration resistance Shock resistance	55 Hz (1 mm) 30 g (11 ms)
Ambient temperature Vibration resistance Shock resistance Protection class	55 Hz (1 mm) 30 g (11 ms) IP67 2283 years acc. to SN 29500 (Ed. 99) 40

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	2 x Sn
Diameter active area B	Ø 12 mm



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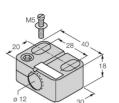
Accessories

QM-12 6945101



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M16 × 1. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

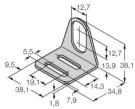
BST-12B



Mounting clamp for threaded barrel

sensors, with dead-stop; material: PA6

MW12 6945003

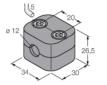


Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-12



Polypropylene



Mounting clamp for smooth and threaded barrel sensors; material: