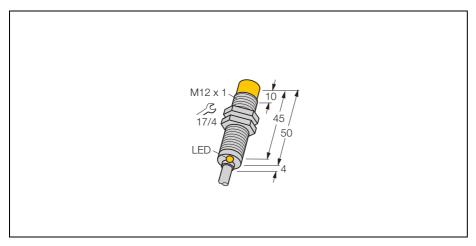
Inductive sensor Ni4-M12-AD4X





Туре	Ni4-M12-AD4X	
ldent-No.	44052	
Rated operating distance Sn	4 mm	
Mounting condition	non-flush	
Assured sensing range	(0,81 x Sn) mm	
Correction factors	$St37 = 1$, $V2A \sim 0.7$, $Ms \sim 0.4$, $AI \sim 0.3$	
Repeatability	2 %	
Temperature drift	± 10 %	
Hysteresis	1 15 %	
Ambient temperature	-25+ 70 °C	
Operating voltage	10 65VDC	
Residual ripple	10 % U _{ss}	
DC rated operational current	100 mA	
Residual current	0.6 mA	
Rated insulation voltage	0.5 kV	
Short-circuit protection	yes / cyclic	
Voltage drop at I _e	5V	
Output function	2-wire, normally open	
Smallest operating current I _m	≥ 3 mA	
Switching frequency	1 kHz	
Housing	threaded barrel, M12 x 1	
Dimensions	54 mm	
ousing material metal, CuZn, chrome-plated		
Material active face plastic, PA12-GF30		
End cap	plastic, EPTR	

10 Nm cable

 $2 \times 0.34 \text{mm}^2$

55 Hz (1 mm)

30g (11 ms)

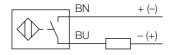
LED yellow

IP67

Ø 5.2, LifYY, PVC, 2 m

- threaded barrel, M12 x 1
- Chrome-plated brass
- 2-wire DC, 10...65 VDC
- normally open
- cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. Conserning inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Tightening torque of housing nut

Connection

Cable quality
Cable cross section:

Vibration resistance

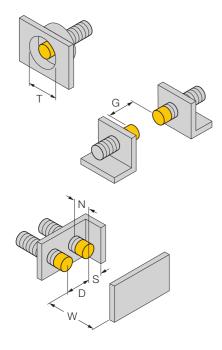
Degree of protection

Display switch state

Shock resistance



Mounting instructions	minimum distances	
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 of the active area B Ø 12 mm		



Inductive sensor

Ni4-M12-AD4X

Inductive sensor Ni4-M12-AD4X



Accessories

Type code	Ident- No.	Short text	Dimension drawing
QM-12	6945101	quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M16 x 1. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets.	22 15 31 × 12 × 12 × 12 × 12 × 12 × 12 × 12 ×
BST-12B	6947212	fixing clamp with dead-stop; material: PA6	M6 28 40 18 18 18 18
MW-12	6945003	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	9.5 10.1 13.9 38.1 13.9 38.1
BSS-12	6901321	fixing clamp; material: polypropylene	a 12 20 32 32 32 32 32 32 32 32 32 32 32 32 32