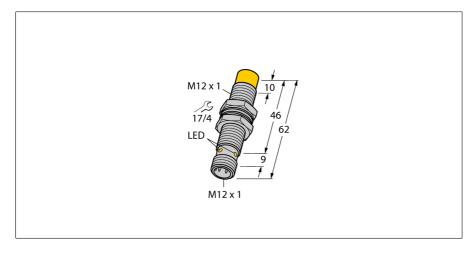


Inductive Sensor NI5U-M12E-AD4X-H1144





Туре	NI5U-M12E-AD4X-H1144	NI5U-M12E-AD4X-H1144	
ID	4405063	4405063	
General data			
Rated switching distance Sn	5 mm		
Mounting conditions	Non-flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ±10 %		
		320 %	
Hysteresis	320 %		

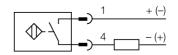
Hysteresis	320 %		
Electrical data			
Operating voltage U _B	1065 VDC		
Ripple U _{ss}	\leq 10 % U_{Bmax}	≤ 10 % U _{Bmax}	
DC rated operating current I _e	≤ 100 mA		
Residual current	≤ 0.8 mA		
Isolation test voltage	0.5 kV		
Short-circuit protection	yes/Cyclic		
Voltage drop at I _e	≤ 5 V		
Output function	2-wire, NO contact, 2-wire		
DC field stability	300 mT		
AC field stability	300 mT _{ss}	300 mT _{ss}	
Smallest operating current I _m	≥ 3 mA		
Switching frequency	0.01 kHz		

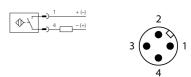
Mechanical data		
Design	Threaded barrel, M12 x 1	
Dimensions	62 mm	
Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, LCP	
Max. tightening torque of housing nut	10 Nm	
Electrical connection	Connector, M12 × 1	

Environmental conditions		
Ambient temperature	-25+70 °C	
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	

- M12 × 1 threaded barrel
- Long version
- Chrome-plated brass
- Factor 1 for all metals
- Resistant to magnetic fields
- DC 2-wire, 10...65 VDC
- NO contact
- M12 x 1 male connector

Wiring Diagram





Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.



Switching state LED, Yellow



Accessories

Type code	Ident no.		Dimension drawing
BST-12B	6947212	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	M5 28 40 18 18 18 18 18
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.	012 19.5 34
MW-12	6945003	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	9,5 19,1 1,8 7,9 14.3 34,8
BSS-12	6901321	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	0 12 20 20 26,5 34 30
BL20-4DI-NAMUR	6827212	4 digital inputs acc. to EN 60947-5-6 For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors.	74,1 73,1 117,6 128,9 154,5