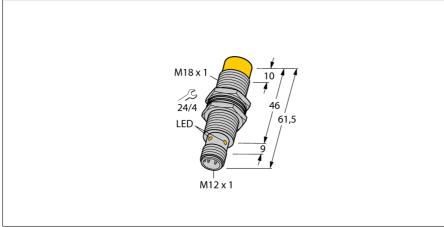


Inductive Sensor Ni10U-M18M-AD4X-H1144



Туре	NI10U-M18M-AD4X-H1144	
ID	4405069	
General data		
Rated switching distance Sn	10 mm	
Mounting conditions	Non-flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
	\leq ± 15 %, \leq -25 °C v \geq +70 °C	
Hysteresis	320 %	
Electrical data		
Operating voltage	1065 VDC	
Residual ripple	≤ 10 % U _{ss}	
DC rated operational current	≤ 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}	
Smallest operating current I _m	≥ 3 mA	
Switching frequency	0.01 kHz	
Mechanical data		
Design	Threaded barrel, M18 x 1	
Dimensions	61.5 mm	
Housing material	Metal, CuZn, Chrome-plated	

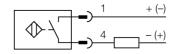
Plastic, LCP

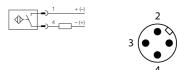
Connector, M12 × 1

25 Nm

- Threaded barrel, M18 x 1
- 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.

Active area material

Electrical connection

Max. tightening torque of housing nut



Environmental conditions		
mbient 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	
Switching state	LED, Yellow	



Accessories

Type code	Ident no.		Dimension drawing
MW-18	6945004	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	9,5 44,5 1,8 7,9
BSS-18	6901320	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 18 32 40.5 30
QM-18	6945102	Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.	M24 x 1.5 0 18 20.5 36
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.	73.1 117.6 128.9 154.5