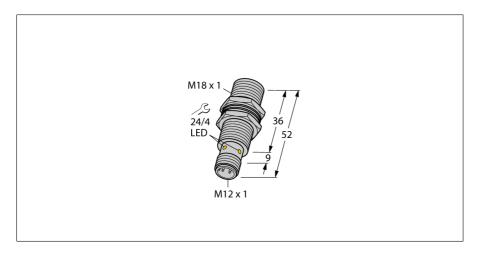


Inductive Sensor BI10U-MT18-VN6X-H1141





Туре	BI10U-MT18-VN6X-H1141	
ID	1644861	
General data		
Rated switching distance Sn	10 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Hysteresis	315 %	

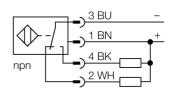
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	≤ 10 % U _{ss}	
DC rated operational current	≤ 200 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	≤ 0.5 kV	
Short-circuit protection	yes/ Cyclic	
Voltage drop at I _e	≤ 1.8 V	
Wire breakage/Reverse polarity protection	yes/ Complete	
Output function	4-wire, Complementary contact, NPN	
DC field stability	300 mT	
AC field stability	300 mT _{ss}	
Switching frequency	1.5 kHz	

Switching frequency	1.5 kHz		
Mechanical data			
Design	Threaded barrel, M18 x 1		
Dimensions	52 mm		
Housing material	using material Metal, CuZn, PTFE-coated		
Active area material	Plastic, LCP, PTFE-coated		
Max. tightening torque of housing nut	10 Nm		
Electrical connection	Connector, M12 × 1		
Environmental conditions			
Ambient temperature	-25+70 °C	-25+70 °C	
Vibration resistance	tion resistance 55 Hz (1 mm)		
Shock resistance	30 g (11 ms)	30 g (11 ms)	

IP68

- Threaded barrel, M18 x 1
- Brass, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- DC 4-wire, 10...30 VDC
- Changeover contact, NPN output
- M12 x 1 male connector

Wiring Diagram



- Functional principle

Inductive sensors are designed for wear-free
and contactless detection of metal objects.
uprox3 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.

Protection class

MTTF

874 years acc. to SN 29500 (Ed. 99) 40 °C



Switching state LED, Yellow



Accessories

Type code	Ident no.		Dimension drawing
BST-18B	6947214	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	0 18 30 30 A
BSS-18	6901320	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 18 32 40.5 30