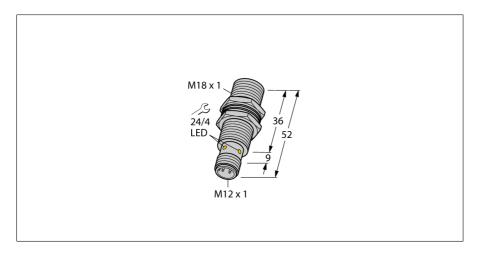


Inductive Sensor BI10U-MT18-VN6X-H1141





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		
	10 20 1/00	
Operating voltage U _B	1030 VDC	
Ripple U _{ss}	\leq 10 % U_{Bmax}	
DC rated operating current I _e	≤ 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 break/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	
-		

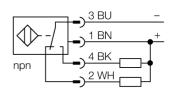
Switching frequency	1.5 KHZ		
Mechanical data			
Design	Threaded barrel, M18 x 1		
Dimensions	ns 52 mm		
Housing material	Metal, CuZn, PTFE-coated		
Active area material	ve area material Plastic, LCP, PTFE-coated		
Max. tightening torque of housing nut	10 Nm		
Electrical connection	Connector, M12 × 1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

IP68

LED, Yellow

- 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

Switching state

MTTF

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



Accessories

Type code	Ident no.		Dimension drawing
BST-18B	6947214	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	20 28 40 24 24 30 30
BSS-18	6901320	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	o 18 26 32 32 40.5