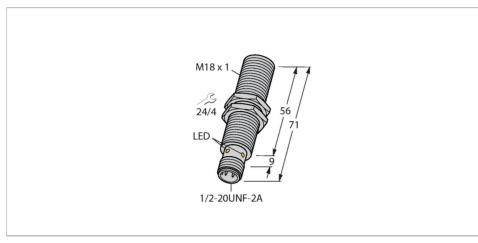


BI5U-G18-RDZ30X2-B3331 **Inductive Sensor**



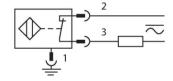
Technical data

Туре	BI5U-G18-RDZ30X2-B3331	
ID	4281218	
General data		
Rated switching distance	5 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.81 × Sn) mm	
Repeat accuracy	≤ 2 % of full scale	
Temperature drift	≤ ±10 %	
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C	
Hysteresis	315 %	
Electrical data		
Operating voltage U _B	20250 VAC	
Operating voltage U _B	10300 VDC	
AC rated operational current	≤ 400 mA	
DC rated operating current I _o	≤ 300 mA	
Frequency	≥ 50≤ 60 Hz	
Residual current	≤ 1.7 mA	
Isolation test voltage	1.5 kV	
Surge current	≤ 3 A (≤ 20 ms max. 5 Hz)	
Short-circuit protection	yes/Latching	
Voltage drop at I _e	≤ 6 V	
Wire break/reverse polarity protection	yes/Complete	
Output function	2-wire, NC contact, 2-wire	
DC field stability	300 mT	

Features

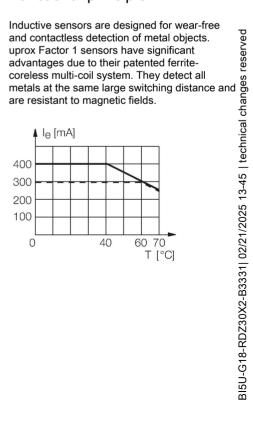
- ■Threaded barrel, M18 x 1
- Chrome-plated brass
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■AC 2-wire, 20...250 VAC
- ■DC 2-wire, 10...300 VDC
- ■NC contact
- 1/2" male connector

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free



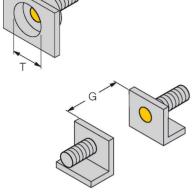


Technical data

AC field stability	300 mT_{ss}
Smallest operating current	≥ 3 mA
Insulation class	
Switching frequency	0.01 kHz
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	71 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PBT-GF30
Max. tightening torque of housing nut	25 Nm
Electrical connection	Connector, 1/2"
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	20. a (11 ma)
Onook resistance	30 g (11 ms)
Protection class	IP68
Protection class	IP68 874 years acc. to SN 29500 (Ed. 99) 40

Mounting instructions

Mounting instructions/Description



O		

Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 18 mm

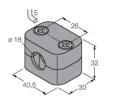
Accessories

MW18

9 | 50,8

6945004

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



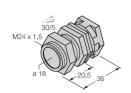
BSS-18

6901320

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

QM-18





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.