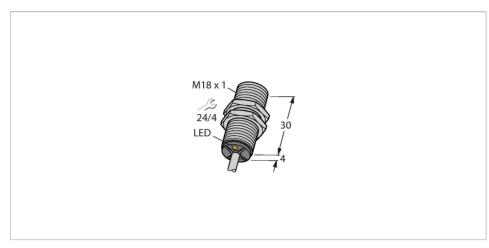


BI5-G18K-AP6X Inductive Sensor



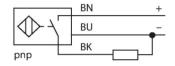
Technical data

Туре	BI5-G18K-AP6X		
ldent. no.	46704		
Rated switching distance	5 mm		
Mounting conditions	Flush		
Secured operating distance	≤ (0.81 × Sn) mm		
Correction factors	St37 = 1; AI = 0.3; stainless steel = 0.7; Ms = 0.4		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ± 10 %		
Hysteresis	315 %		
Ambient temperature	-25+70 °C		
Operating voltage	1030 VDC		
Residual ripple	≤ 10 % U _{ss}		
DC rated operational current	≤ 200 mA		
No-load current	≤ 15 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	3-wire, NO contact, PNP		
Switching frequency	0.5 kHz		
Design	Threaded barrel, M18 \times 1		
Dimensions	34 mm		
Housing material	Metal, CuZn, Chrome-plated		

Features

- M18 × 1 threaded barrel
- Chrome-plated brass
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

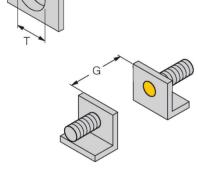


Technical data

Active area material	Plastic, PA12-GF30
End cap	Plastic, EPTR
Max. tightening torque housing nut	25 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	3 x 0.34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description



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 ac B	tive area	Ø 18 mm	



Accessories

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.

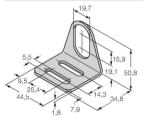
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BST-18B M5 28 40 24 24

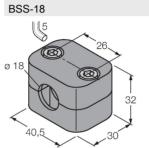
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Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

MW18 6945004



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



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

6901320