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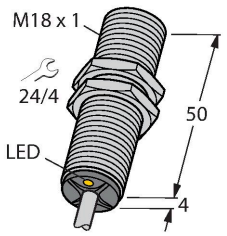
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Find the *Turck Bi0.8-G05-AP6X-V1331* at our website: *Click HERE*

BI5-G18-AN7X
Inductive sensor



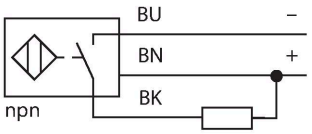
Technical data

Type	BI5-G18-AN7X
Ident. no.	4740500
Rated switching distance	5 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current	≤ 10 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	no
Voltage drop at	≤ 0.7 V
Wire breakage/Reverse polarity protection	yes / yes (voltage supply)
Output function	3-wire, NO contact, NPN
Switching frequency	0.5 kHz
Design	Threaded barrel,M18 × 1
Dimensions	54 mm
Housing material	Metal, CuZn, Chrome-plated

Features

- M18 × 1 threaded barrel
- Chrome-plated brass
- DC 3-wire, 10…30 VDC
- NO contact, NPN output
- TTL compatible
- 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.

BI5-G18-AN7X| 11/20/2019 22-36 | technical changes reserved

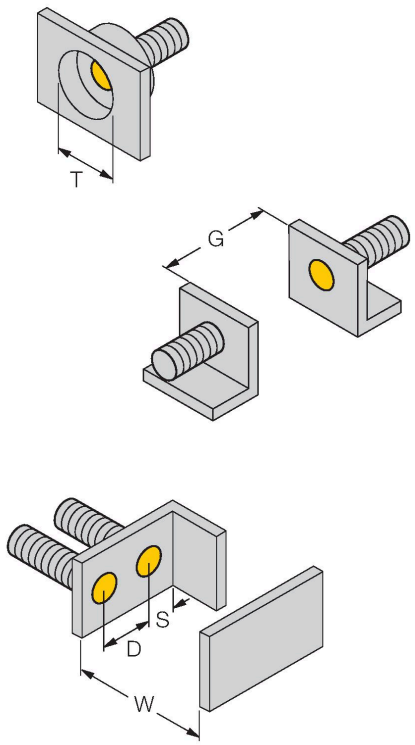
Technical data

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 0.5 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

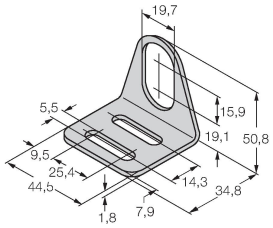
Mounting instructions/Description

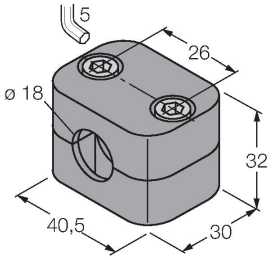
Distance D	2 x B
Distance T	3 x B
Diameter active area B	Ø 18 mm



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Accessories

MW18	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

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