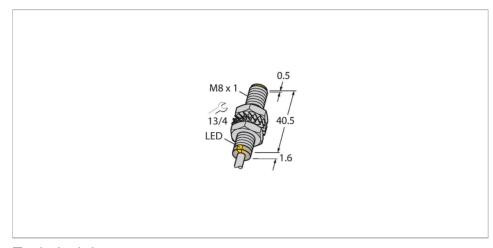


BI3-M08E-AN6X Inductive Sensor - With Increased Switching Distance



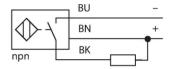
Technical data

Туре	BI3-M08E-AN6X
Ident. no.	4602907
Rated switching distance	3 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × 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	315 %
Ambient temperature	-25+70 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 150 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, NPN
Switching frequency	2.8 kHz
Design	Threaded barrel, M8 × 1
Dimensions	42.1 mm

Features

- Threaded barrel, M8 x 1
- Nickel-plated brass
- Large sensing range
- DC 3-wire, 10...30 VDC
- NO contact, NPN 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.

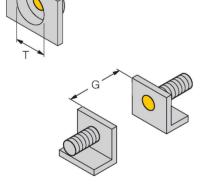


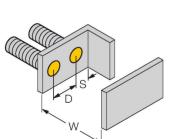
Technical data

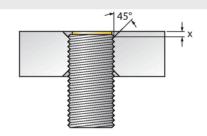
Housing material	Metal, CuZn, Nickel-plated
Active area material	Plastic, PP-GF20
End cap	Plastic, PP-GF20
Max. tightening torque housing nut	7 Nm
Electrical connection	Cable
Cable quality	Ø 3 mm, Gray, Lif9Y-11Y, PUR, 2 m
	Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
Core cross-section	3 x 0.14 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







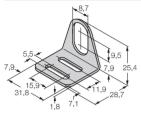
Distance D	2 x B	
Distance W	3 x Sn	-
Distance T	3 x B	=
Distance S	1.5 x B	-
Distance G	6 x Sn	-
Diameter active area B	Ø 8 mm	erved
Flush installation in brass stainless steel with the si without restrictions. If installed flush in steel, min. depth of 1.7 mm (diobserved.	upplied nuts is possible a phase of 45° and	BI3-M08E-AN6X 09/09/2020 16-13 technical changes reservec



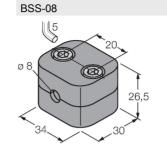
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Accessories

MW-08 6945008 Mounting bracket for threaded barrel



sensors; material: Stainless steel A2 1.4301 (AISI 304)



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

MBS80 M3 x 8 DIN 912 S 2,5

Mounting clamp for smooth barrel sensors; mounting block material: Anodized aluminum

69479