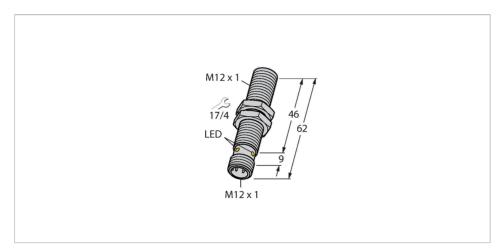


BI3NF-EM12HE-AP6X2-H1141 Inductive Sensor – With Selective Behaviour



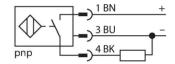
Technical data

BI3NF-EM12HE-AP6X2-H1141
1615001
3 mm
Flush
≤ (0.81 × Sn) mm
≤ 2 % of full scale
≤ ± 10 %
315 %
0+60 °C
1030 VDC
≤ 10 % U _{ss}
≤ 200 mA
≤ 15 mA
≤ 0.1 mA
≤ 0.5 kV
yes / Cyclic
≤ 1.8 V
yes / Complete
3-wire, NO contact, PNP
3 kHz
Threaded barrel, M12 × 1
62 mm
Stainless steel, V2A (1.4301)

Features

- Threaded barrel, M12 x 1
- Stainless steel, 1.4301
- Duroplast front cap, very resistant to thermal and mechanical load
- Detects only non-ferromagnetic metal
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target.

Inductive sensors of the NF series with selective performance detect non-ferrous metals only.

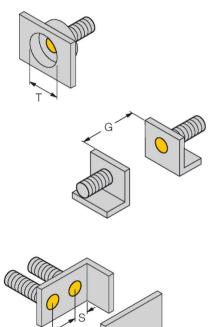


Technical data

Active area material	Plastic, Duroplast
Max. tightening torque housing nut	10 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
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 12 mm

Accessories

BST-12B M5 28 40 18 18

6947212

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



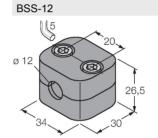
6945101

Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M16 × 1. Note: The switching distance of the proximity switches may change when using quick-mount brackets.



6945003

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



6901321

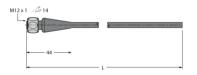
Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

Wiring accessories

Dimension	drawing

Type RKH4-2/TFE Ident. no. 6935482

Connection cable, M12 female, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray temperature range -25...+80 °C; other cable lengths and designs available, see www.turck.com



RKH4-2/TFG

6934384

Connection cable, M12 female, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray temperature range -40...+105 °C; other cable lengths and designs available, see www.turck.com