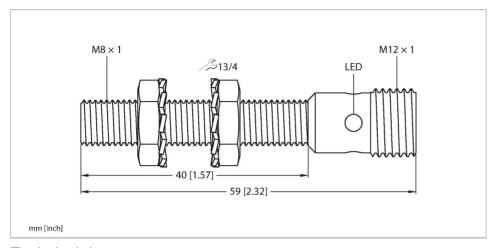


BI2-EG08-AP6X-H1341 Inductive Sensor – With Increased Switching Distance



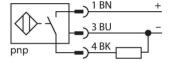
Technical data

Rated switching distance 2 Mounting conditions FI Secured operating distance ≤ Correction factors St Repeat accuracy ≤ Femperature drift ≤	602060 mm lush (0.81 × Sn) mm t37 = 1; Al = 0.3; stainless steel = 0.7; Ms 0.4
Mounting conditions FI Secured operating distance ≤ Correction factors St = Repeat accuracy ≤ Temperature drift ≤	lush (0.81 × Sn) mm t37 = 1; Al = 0.3; stainless steel = 0.7; Ms
Secured operating distance Correction factors Repeat accuracy Comperature drift Statement Statemen	(0.81 × Sn) mm t37 = 1; Al = 0.3; stainless steel = 0.7; Ms
Correction factors St = Repeat accuracy ≤ Temperature drift ≤	t37 = 1; AI = 0.3; stainless steel = 0.7; Ms
= Repeat accuracy ≤ Femperature drift ≤	
Temperature drift ≤	0.4
	2 % of full scale
Hysteresis 20	± 10 %
	0 %
Ambient temperature -2	25+70 °C
Operating voltage 10	030 VDC
Residual ripple ≤	10 % U _{ss}
OC rated operational current ≤	150 mA
No-load current ≤	15 mA
Residual current ≤	0.1 mA
solation test voltage ≤	0.5 kV
Short-circuit protection ye	es / Cyclic
/oltage drop at I _e ≤	1.8 V
Nire breakage/Reverse polarity protection ye	es / Complete
Output function 3-	-wire, NO contact, PNP
Switching frequency 3	
Design Th	kHz
Dimensions 59	kHz hreaded barrel, M8 × 1

Features

- M8 × 1 threaded barrel ■ Stainless steel, 1.4305 (AISI 303)
- Large sensing range
- ■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, 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.

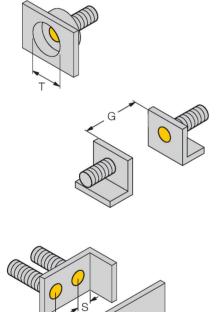


Technical data

Housing material	Stainless steel, 1.4305 (AISI 303)
Active area material	Plastic, PA6.6
Max. tightening torque of housing nut	5 Nm
Electrical connection	Connector, M12 × 1
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

Accessories

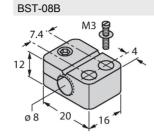
QM-08

6945100

6945008

69479

Quick-mount bracket with deadstop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quickmount brackets.



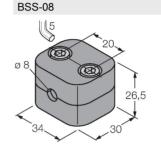
6947210

6901322

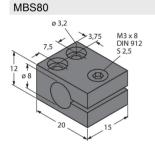
Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



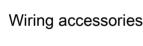
Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



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



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

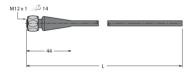


Dimension drawing

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