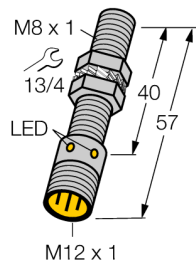


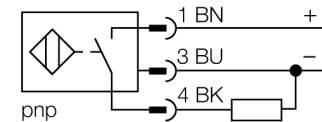
Inductive sensor for harsh environmental conditions BI1,5-EG08WD-AP6X-H1341



- Threaded barrel, M8 x 1
- Stainless steel, 1.4404
- Protection classes IP68 - IP69K
- PVDF front cap
- Resistant to cleaning agents
- Resistant to cooling lubricants, cutting and grinding oils
- Viton O-ring seal
- For the food industry
- 3-wire DC, 10...30 VDC
- NO contact, PNP output
- Male M12 x 1

Type code	BI1,5-EG08WD-AP6X-H1341
Ident no.	4602210
Rated operating distance Sn	1.5 mm
Mounting condition	flush
Assured sensing range	$\leq (0,81 \times S_n)$ mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeatability	$\leq 2\%$ of full scale
Temperature drift	10 %
Hysteresis	3...15 %
Ambient temperature	-25...+85 °C
Operating voltage	10...30VDC
Residual ripple	$\leq 10\%$ U_{ss}
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_N	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	3 kHz
Design	threaded barrel, M8 x 1
Dimensions	57 mm
Housing material	stainless steel, 1.4427 SO
Material active area	Plastic, PVDF
Admissible pressure on front cap	≤ 22 bar
Max. tightening torque housing nut	10 Nm
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 / IP69K
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

Wiring diagram



Functional principle

TURCK offers leak-proof sensors for the food industry and machine engineering that are resistant to cleaning agents, cooling lubricants, cutting and grinding oils. They are made for rough environmental conditions and not only meet but even exceed the requirements of the protection classes IP68 and IP69. These rugged sensors are protected by a PVDF front cap, a special Viton seal and a stainless steel housing.

**Inductive sensor
for harsh environmental conditions
BI1,5-EG08WD-AP6X-H1341**

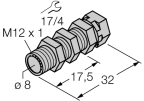
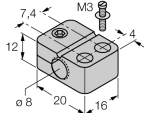
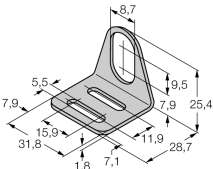
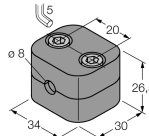
Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn

Diameter of the active area B \varnothing 8 mm



**Inductive sensor
for harsh environmental conditions
BI1,5-EG08WD-AP6X-H1341**

Accessories

Type code	Ident no.	Description	Dimension drawing
QM-08	6945100	Quick-mount bracket with dead-stop, chrome-plated brass, male thread M12 x 1. Note: The switching distance of proximity switches may be reduced through the use of quick-mount brackets.	
BST-08B	6947210	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	
MW-08	6945008	Mounting bracket for threaded barrel devices; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-08	6901322	Mounting bracket for smooth and threaded barrel devices; material: Polypropylene	

Wiring accessories

Type code	Ident no.	Description	Dimension drawing
RKCV4T-2/TEL	6626900		