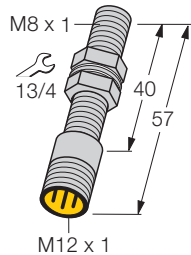
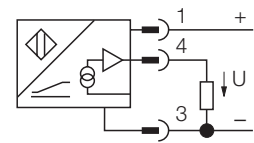


Inductive sensor with analogue output Bi1,5-EG08-LU-H1341



- threaded barrel, M8 x 1
- stainless steel, 1.4301
- analogue output (voltage)
- 3-wire, 15...30 VDC
- connector, M12 x 1

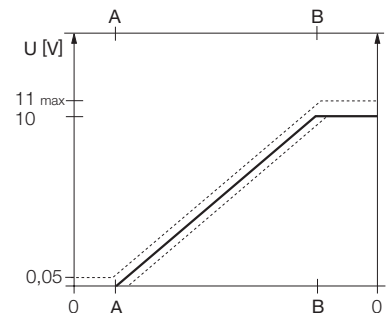
Wiring diagram



Function principles

Simple control tasks can be accomplished with inductive TURCK sensors with analogue output. They provide a current, voltage or frequency signal that is proportional to the target's distance. With TURCK's analogue sensors, this output signal is linear to the distance of the target over the entire sensing range.

Measuring range

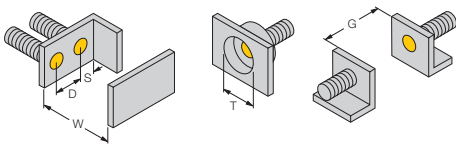


Type	Bi1,5-EG08-LU-H1341
Ident-No.	1533004
Measuring range [A...B]	0,25... 1,25 mm
Mounting mode	flush
Min. repeat accuracy	$\leq 1 \%$ of measuring range A - B
Reproducibility	$\leq 0,5 \%$, after a heating period of 0.5 h
Linearity tolerance	$\leq 10 \mu\text{m}$
Max. relative temperature drift	$\leq 5 \mu\text{m}$, after a heating period of 0.5 h
Operating temperature	$\leq 3 \%$ of final value
	$\leq \pm 0,06 \%$ / °C
	-10 ... + 70 °C
Rated operational voltage (DC) U_B	15... 30 VDC
Max. ripple	$\leq 10 \%$ U_{pp}
No-load current I_0	$\leq 8 \text{ mA}$
Rated insulation voltage	$\leq 0,5 \text{ kV}$
Output function	3-wire, analogue output
Short-circuit protection	yes
Wire breakage / reverse polarity protection	yes / complete
Voltage output	0... 10 V
Voltage output load resistance	$\geq 4,7 \text{ k}\Omega$
Reading rate frequency	200 Hz
Recovery time on output	$\leq 12 \text{ ms}$
Housing style	threaded barrel; M8 x 1
Dimensions	57 mm
Housing material	metal, A2 1.4301 (AISI 304)
Active face	plastic, PA12-GF20
Max. fixing torque of coupling nut	10 Nm
Wiring	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67

Inductive sensor with analogue output Bi1,5-EG08-LU-H1341

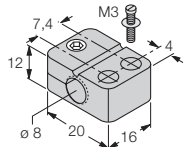
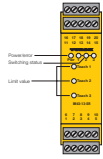
Mounting instructions	minimum gap
Gap D	16 mm
Gap W	4,5 mm
Gap T	3 x B
Gap S	12 mm
Gap G	9 mm

Diameter of active face B	Ø 8 mm
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Inductive sensor with analogue output Bi1,5-EG08-LU-H1341

Accessories

Typ	Ident-No.	Description	Dimension drawing
BST-08B	6947210	fixing clamp with dead-stop; material: PA6	  
QM-08	6945100	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M12 x 1	
IM43-13-SR	7540041	limit value monitor; single channel; input 0/4...20 mA or 0/2...10 V; supply of 2- or 3-wire transmitters/sensors; limit value adjustment via teach button; three relay outputs with one normally open contact each; removeable terminal blocks; 27 mm wide; universal voltage supply 20...250 VUC; further limit value monitors are described in our "Interface Technology" catalogue.	