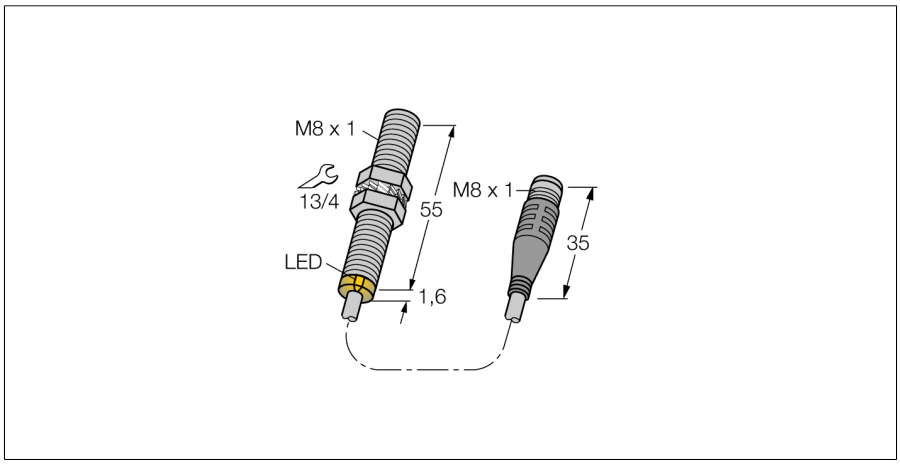
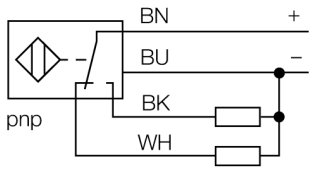
Inductive sensor
BI2-G08-VP6X-0.15-PSG4S



- **Threaded barrel, M8 x 1**
- **Stainless steel, 1.4404**
- **DC 4-wire, 10…30 VDC**
- **Changeover contact, PNP output**
- **Cable with male end Ø 8 mm**

Wiring Diagram



Type designation	BI2-G08-VP6X-0.15-PSG4S
Ident-No.	4602652
Rated switching distance Sn	2 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x 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	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30 VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 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	4-wire, Complementary contact, PNP
Switching frequency	3 kHz
Design	Threaded barrel,M8 × 1
Dimensions	56.6 mm
Housing material	Metal, V4A (1.4404)
Active area material	Plastic, PA12-GF20
End cap	Plastic, PP
Max. tightening torque housing nut	5 Nm
Electrical connection	Cable with connector, Ø 8 mm
Cable quality	3mm, Gray, LIF2X11XFHF, TPU, 0.15
	Flame retardant acc. to VDE 0472, part 804B
Cable cross section	4 x 0.14 mm²
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
Packaging unit	1
Switching state	LED, Yellow

Functional principle

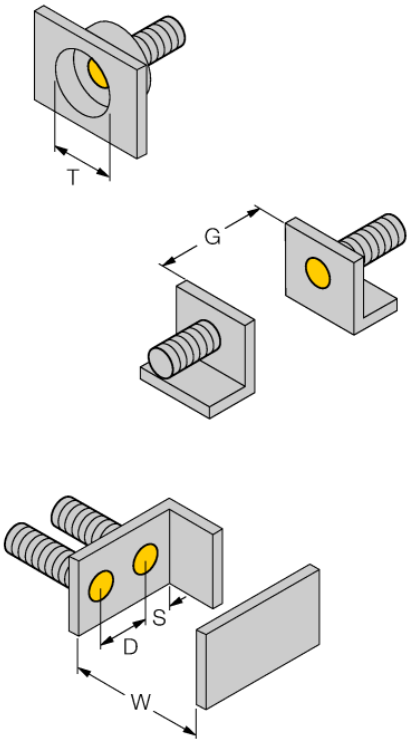
Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.

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Inductive sensor
BI2-G08-VP6X-0.15-PSG4S

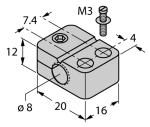
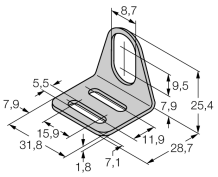
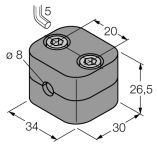
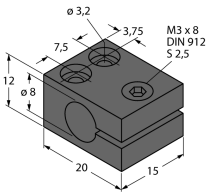
Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn

Diameter active area B	Ø 8 mm



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Accessories

Type code	Ident-No.	Description	
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	
MBS80	69479	Mounting bracket for threaded barrel devices; material mounting block: Anodized aluminium	

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