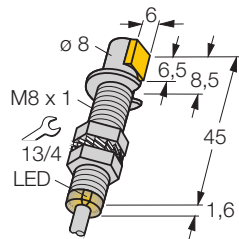


Inductive sensor Bi1,5-GS880-AP6X

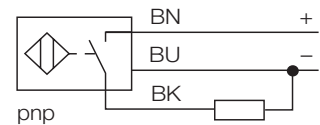
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- connector, M8 x 1
- side active face
- stainless steel, 1.4404
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- cable connection

Wiring diagram



Functional principle

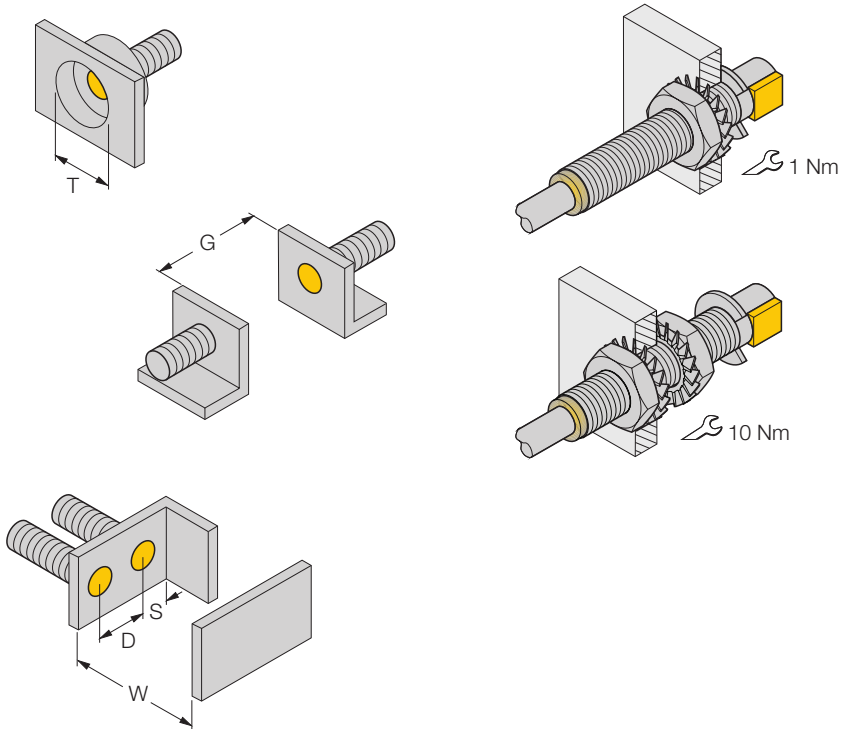
Inductive sensors are designed for wear-free and non-contact detection of metal objects. For this purpose they use a high-frequency electro-magnetic AC field that interacts with the target. Concerning inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

Type	Bi1,5-GS880-AP6X
Ident-No.	4604401
Rated operating distance Sn	1.5 mm
Mounting condition	flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	2 %
Temperature drift	± 10 %
Hysteresis	3... 15 %
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 30VDC
Residual ripple	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 _e	1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Switching frequency	3 kHz
Housing	threaded barrel, M8 x 1
Dimensions	47 mm
Housing material	metal, AISI 316L
Material active face	plastic, POM
End cap	plastic, PP
Tightening torque of housing nut	10 Nm
Connection	cable
Cable quality	Ø 4, LiYY-11Y, PUR, 2 m
Cable cross section:	3 x 0.25mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow

**Inductive sensor
Bi1,5-GS880-AP6X**

Mounting instructions	minimum distances
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

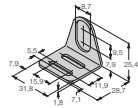



Inductive sensor Bi1,5-GS880-AP6X

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
MW-08	6945008	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	 A technical drawing of a mounting bracket. It shows a perspective view of a U-shaped bracket with a flat base. Dimensions are provided in millimeters: 31.8 (width), 7.9 (height), 1.8 (thickness), 7.1 (width of the U-shape), 1.9 (width of the base), 25.4 (width of the base), and 1.1 (height of the U-shape).
BSS-08	6901322	fixing clamp; material: polypropylene	 A technical drawing of a cylindrical fixing clamp. It shows a perspective view of a cylinder with a central hole. Dimensions are provided in millimeters: 34 (diameter), 20 (height), 25.5 (height), and 15 (radius of the central hole).