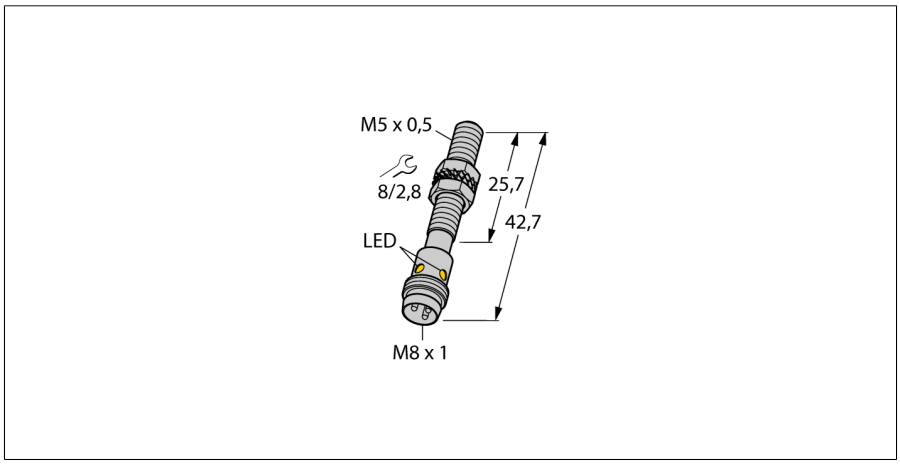
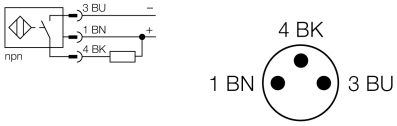
Inductive sensor
BI1U-EG05-AN6X-V1331



- **Threaded barrel, M5 x 0.5**
- **Stainless steel, 1.4427 SO**
- **Factor 1 for all metals**
- **Resistant to magnetic fields**
- **Large switching distance**
- **DC 3-wire, 10…30 VDC**
- **NO contact, NPN output**
- **M8 x 1 male connector**

Wiring diagram



Type code	BI1U-EG05-AN6X-V1331
Ident-No.	4602119
Rated switching distance Sn	1 mm
Mounting conditions	flush
Assured switching distance	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ 0 °C
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 20 mA
Residual current	≤ 0.1 mA
Rated insulation 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	3-wire, NO contact, NPN
Switching frequency	2 kHz
Construction	threaded barrel, M5 x 0.5
Dimensions	42.7 mm
Housing material	stainless steel, 1.4427 SO
Material active area	plastic, PA
Max. tightening torque housing nut	5 Nm
Connection	male, M8 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
IP Rating	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

Functional principle

Inductive sensors detect metal objects contactless and wear-free. *uprox®3* sensors have significant advantages due to their patented ferrite-coreless multicoil system. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

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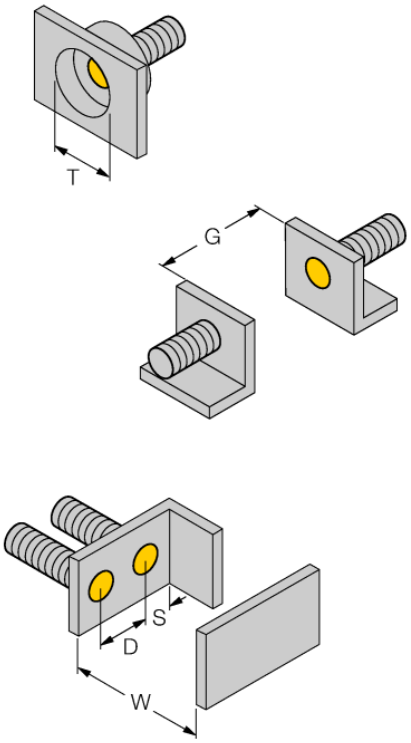
Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn

Diameter of the active area B	Ø 5 mm



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