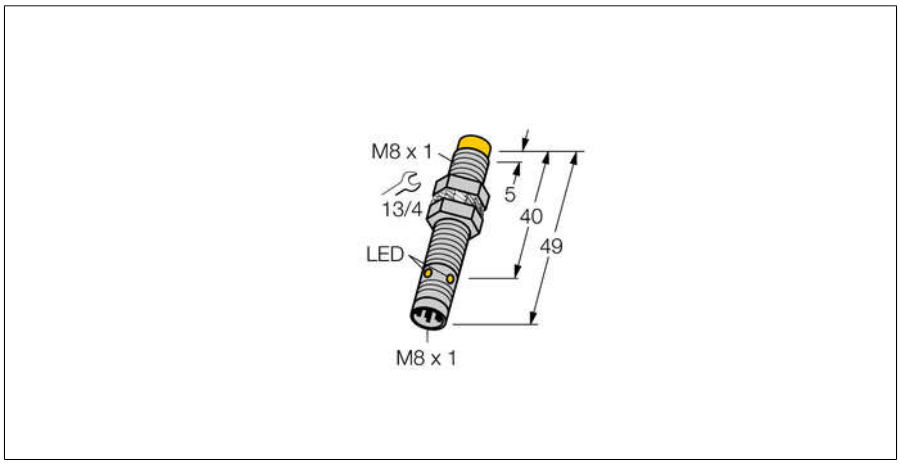
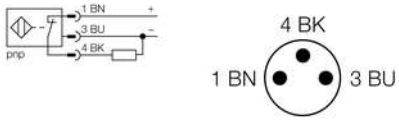
Inductive sensor
Ni4U-EG08-RP6X-V1131



- **Threaded barrel, M8 x 1**
- **Stainless steel, 1.4427 SO**
- **Factor 1 for all metals**
- **Protection class IP68**
- **Resistant to magnetic fields**
- **Extended temperature range**
- **High switching frequency**
- **DC 3-wire, 10…30 VDC**
- **NC contact, PNP output**
- **M8 x 1 male connector**

Wiring diagram



Type code	Ni4U-EG08-RP6X-V1131
Ident-No.	4600625
Ident-No (TUSA)	S4600625
Rated operating distance Sn	4 mm
Mounting condition	non-flush
Assured switching distance	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3…15 %
Ambient temperature	-30…+85 °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	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NC contact, PNP
Protective insulation	⧈
Switching frequency	2 kHz
Construction	threaded barrel, M8 x 1
Dimensions	49 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	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

Functional principle

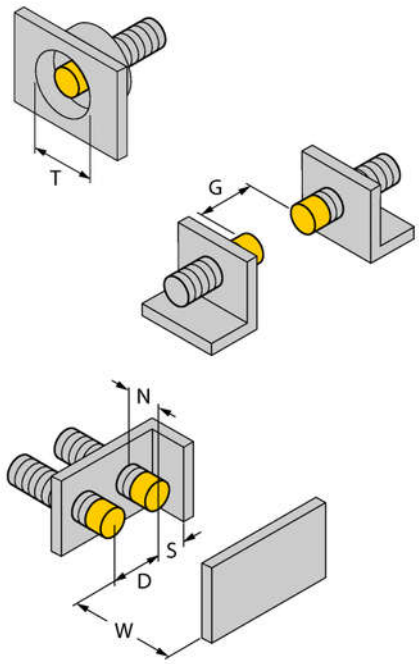
Inductive sensors detect metal objects contactless and wear-free. *uprox*® Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

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Inductive sensor
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Distance D	32 mm
Distance W	12 mm
Distance T	32 mm
Distance S	12 mm
Distance G	24 mm
Distance N	8 mm

Diameter of the active area B	Ø 8 mm



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