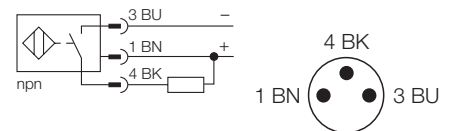


- threaded barrel, M8 x 1
- stainless steel, 1.4404
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open npn output
- connector, M8 x 1

**Wiring diagram**



**Functional principle**

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

<b>Type</b>	Ni4U-EG08-AN6X-V1131
Ident-No.	4600630
<b>Rated operating distance Sn</b>	4 mm
Mounting condition	non-flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Ambient temperature	-30... + 85 °C
<b>Operating voltage</b>	10... 30VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 150 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I <sub>e</sub>	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, npn
Insulation class	□
Switching frequency	≤ 2 kHz
<b>Housing</b>	threaded barrel, M8 x 1
Dimensions	49 mm
Housing material	metal, AISI 316L
Material active face	plastic, plastic, PA12-GF20
Tightening torque of housing nut	10 Nm
Connection	connectors, M8 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
<b>Display switch state</b>	LED yellow

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<b>Mounting instructions</b>	minimum distances
Distance D	4 x B
Distance W	3 x Sn
Distance T	32 <b>MM</b>
Distance S	1,5 x B
Distance G	6 x Sn
Distance N	2 x Sn

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<b>Diameter of the active area B</b>	Ø 8 mm
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