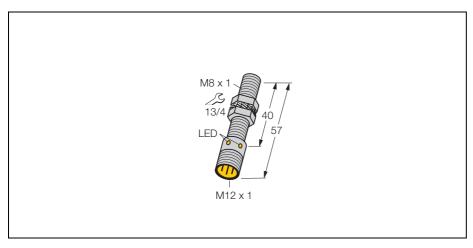


Datasheet

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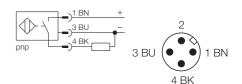
Inductive Sensor



Ident-No.	4600540
Rated operating distance Sn	1.5 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
	\leq ± 15 %, \leq -25 °C v \geq +70 °C
Hysteresis	3 15 %
Ambient temperature	-30+ 85 °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
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage dip at I _e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open, pnp
Insulation class	
Switching frequency	≤2 kHz
Housing	threaded barrel, M8 x 1
Dimensions	57 mm
Housing material	metal, A4 1.4404 (AISI 316L)
Material active area	plastic, PA12-GF20
Tightening torque of housing nut	10 Nm
Connection	Connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
Display switch state	LED yellow

- 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, pnp output
- connector, M12 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.



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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	Ø 8 mm	

