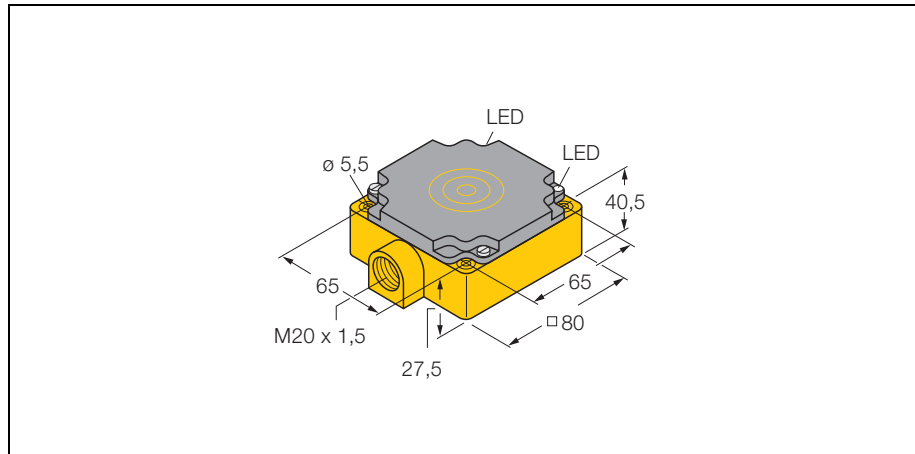
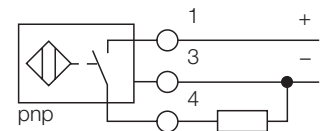


Inductive Sensor With Extended Switching Distance



- rectangular, height 41 mm
- Plastic, PBT-GF30-V0
- factor 1 for all metals
- magnetic field immune
- large detection range
- extended temperature range
- high switching frequency
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- Terminal chamber

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, approx factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching distances.

Ident-No.	1623800
Rated operating distance Sn	75 mm
Mounting condition	non-flush
Assured switching distance	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Ambient temperature	-30...+ 85 °C
Operating voltage	10... 30 VDC
Residual ripple	≤ 10 % U _{SS}
DC rated operational current	≤ 200 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	≤ 0.25 kHz
Housing	rectangular, CP80
Dimensions	80 x 80 x 41 mm
Housing material	plastic, PBT-GF30-V0
Material active area	plastic, PBT-GF30-V0
Connection	Terminal chamber
Clamping ability	≤ 2.5 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED yellow

Mounting instructions

Distance D	3 x B
Distance W	3 x Sn
Distance T	4 x Sn
Distance S	1,5 x B
Distance G	6 x Sn
Distance A	1 x B
Distance C	1 x B

minimum distances

Width of the active area B

80 mm

