

Overview

- Cylindrical miniature housing for limited installation space
- Non-flush design for an increased sensing distance
- Lowest serial dispersion due to end-of-line calibration
- Robust even in demanding environments
- Temperature and long-term stable switching behavior



Picture similar



Technical data

General data

Mounting type	Non-flush
Nominal sensing distance Sn	4 mm
Assured sensing distance Sa	≤ 81 % of Sn
Real sensing distance Sr	± 10 % von Sn
Temperature drift	± 10 % of Sr
Hysteresis	3 ... 20 % of Sr
Output indicator	LED red
Correction factor typ.	Mild steel 100 %, stainless steel 70 %, aluminum 50 %, copper 45 %
Reference object	Fe360 12 x 12 x 1 mm

Electrical data

Switching frequency	5 kHz 0
Voltage supply range +Vs	6 ... 36 VDC
Current consumption max. (no load)	12 mA
Output circuit	NPN make function (NO)
Voltage drop Vd	<2 VDC
Output current	200 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Design	Cylindrical smooth
Material (sensing face)	PBT

Mechanical data

Housing material	Stainless steel (V2A)
Dimension	6.5 mm
Housing length	40 mm
Connection types	Cable, L=2 m

Ambient conditions

Operating temperature	-25 ... +75 °C
Storage temperature	-25 ... +75 °C
Protection class	IP 67
Vibration resistance	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock resistance	IEC 60068-2-27:2009 100 g / 6 ms, 10 jolts per axis and direction

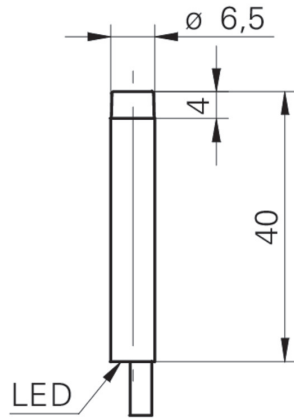
Safe maximum values

MTTF	1073 years
Diagnostic coverage (DC)	0 %

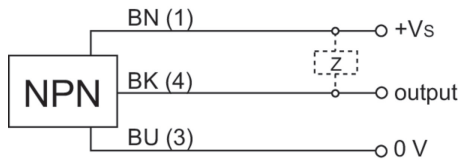
Cable

Cable length	200 cm
Shielded	No
External sheath: Material	PVC
Cable diameter	3.0 mm
Wire cross section	0.14 mm²
Insulation: Material	PVC
Bending radius (fixed)	3 × outer diameter
Bending radius (mobile)	10 × outer diameter

Dimension drawing



Connection diagram



Accessories

Mounting accessories

10109474	10109474
10117742	10117742