

Overview

- Cylindrical miniature housing for limited installation space
- 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	Flush
Nominal sensing distance Sn	2 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 60 %, aluminum 25 %, copper 20 %
Reference object	Fe360 6 x 6 x 1 mm

Electrical data

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

Mechanical data

Design	Cylindrical smooth
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Mechanical data

Material (sensing face)	PBT
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

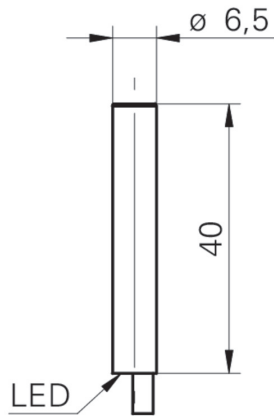
Safe maximum values

MTTF	2198 years
Diagnostic coverage (DC)	0 %

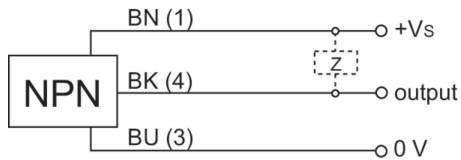
Cable

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

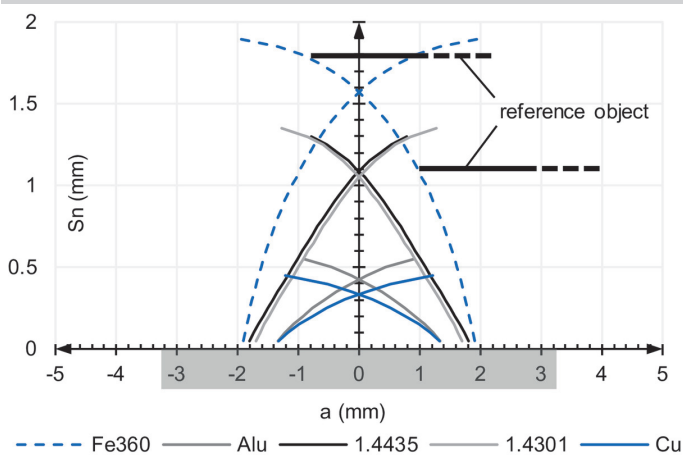
Dimension drawing



Connection diagram



Response diagram



Accessories

Mounting accessories

10109474	10109474
10117742	10117742