

Overview

- Rectangular miniature sensor for tight spaces
- Lowest serial dispersion due to end-of-line calibration
- Robust even in demanding environments
- Temperature and long-term stable switching behavior



Picture similar

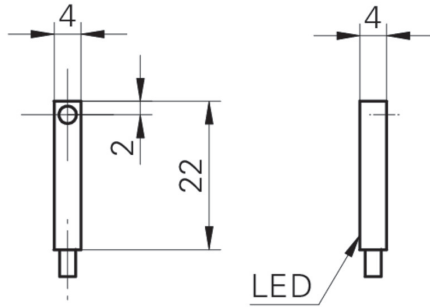


Technical data

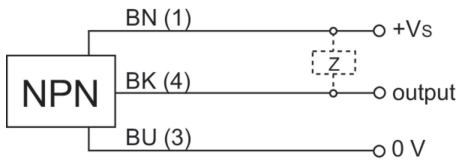
General data		Mechanical data	
Mounting type	Flush	Housing material	Stainless steel (V2A)
Nominal sensing distance Sn	0.8 mm	Dimension	4 mm
Assured sensing distance Sa	≤ 81 % of Sn	Housing length	22 mm
Real sensing distance Sr	± 10 % von Sn	Connection types	Cable, L=2 m
Temperature drift	± 10 % of Sr	Weight	16 g
Hysteresis	2 ... 20 % of Sr	Ambient conditions	
Output indicator	LED red (backside)	Operating temperature	-25 ... +75 °C
Correction factor typ.	Mild steel 100 %, stainless steel 80 %, aluminum 65 %, copper 55 %	Storage temperature	-25 ... +75 °C
Reference object	Fe360 4 x 4 x 1 mm	Protection class	IP 67
Electrical data		Vibration resistance	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Switching frequency	3 kHz	Shock resistance	IEC 60068-2-27:2009 100 g / 6 ms, 10 jolts per axis and direction
Voltage supply range +Vs	6 ... 30 VDC	Safe maximum values	
Current consumption max. (no load)	12 mA	MTTF	2179 years
Output circuit	NPN make function (NO)	Diagnostic coverage (DC)	0 %
Voltage drop Vd	<2 VDC	Cable	
Output current	100 mA	Cable length	200 cm
Short circuit protection	Yes	Shielded	No
Reverse polarity protection	Yes	External sheath: Material	PVC
Mechanical data		Cable diameter	2.3 mm
Design	Rectangular	Wire cross section	0.08 mm ²
Material (sensing face)	EP	Insulation: Material	PP
		Bending radius (fixed)	3 × outer diameter
		Bending radius (mobile)	10 × outer diameter

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

Dimension drawing



Connection diagram



Response diagram

