

**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**

Mounting type	Flush
Nominal sensing distance Sn	0.8 mm
Assured sensing distance Sa	≤ 81 % of Sn
Real sensing distance Sr	± 10 % von Sn
Temperature drift	± 10 % of Sr
Hysteresis	2 ... 20 % of Sr
Output indicator	LED red (backside)
Correction factor typ.	Mild steel 100 %, stainless steel 80 %, aluminum 65 %, copper 55 %
Reference object	Fe360 4 x 4 x 1 mm

**Electrical data**

Switching frequency	3 kHz
Voltage supply range +Vs	6 ... 30 VDC
Current consumption max. (no load)	12 mA
Output circuit	PNP break function (NC)
Voltage drop Vd	<2 VDC
Output current	100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

**Mechanical data**

Design	Rectangular
Material (sensing face)	EP

**Mechanical data**

Housing material	Stainless steel (V2A)
Dimension	4 mm
Housing length	22 mm
Connection types	Cable, L=2 m
Weight	16 g

**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

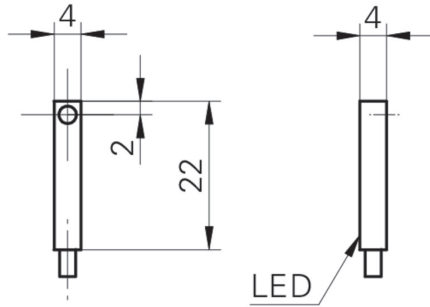
**Safe maximum values**

MTTF	3929 years
Diagnostic coverage (DC)	0 %

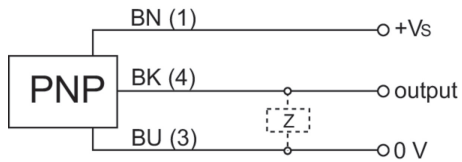
**Cable**

Cable length	200 cm
Shielded	No
External sheath: Material	PVC
Cable diameter	2.3 mm
Wire cross section	0.08 mm <sup>2</sup>
Insulation: Material	PP
Bending radius (fixed)	3 × outer diameter
Bending radius (mobile)	10 × outer diameter

**Dimension drawing**



**Connection diagram**



**Response diagram**

