

Overview

- Cylindrical miniature housing for limited installation space
- Extended switching distance for maximum reliability
- Lowest serial dispersion due to end-of-line calibration
- Robust even in demanding environments
- Temperature and long-term stable switching behavior
- PUR cable with high chemical resistance



Picture similar



Technical data

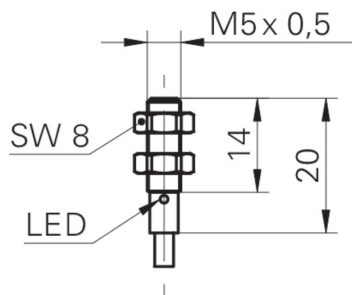
General data		Mechanical data	
Mounting type	Flush	Housing material	Stainless steel (V2A)
Nominal sensing distance Sn	1.6 mm	Dimension	5 mm
Assured sensing distance Sa	≤ 81 % of Sn	Housing length	20 mm
Real sensing distance Sr	± 10 % von Sn	Connection types	Cable, L=2 m
Temperature drift	± 10 % of Sr	Tightening torque max.	1.4 Nm
Hysteresis	2 ... 20 % of Sr	Weight	17 g
Output indicator	LED red	Ambient conditions	
Correction factor typ.	Mild steel 100 %, stainless steel 65 %, aluminum 40 %, copper 35 %	Operating temperature	-25 ... +75 °C
Reference object	Fe360 5 x 5 x 1 mm	Storage temperature	-40 ... +75 °C
Electrical data		Protection class	IP 67
Switching frequency	3 kHz	Vibration resistance	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Voltage supply range +Vs	6 ... 30 VDC	Shock resistance	IEC 60068-2-27:2009 100 g / 6 ms, 10 jolts per axis and direction
Current consumption max. (no load)	12 mA	Safe maximum values	
Output circuit	NPN break function (NC)	MTTF	1245 years
Voltage drop Vd	<2 VDC	Diagnostic coverage (DC)	0 %
Output current	100 mA	Cable	
Short circuit protection	Yes	Cable length	200 cm
Reverse polarity protection	Yes	Shielded	No
Mechanical data		External sheath: Material	PUR
Design	Cylindrical threaded	Cable diameter	2.8 mm
Material (sensing face)	POM	Wire cross section	0.09 mm²
		Insulation: Material	PP
		Bending radius (fixed)	5 × outer diameter

Technical data

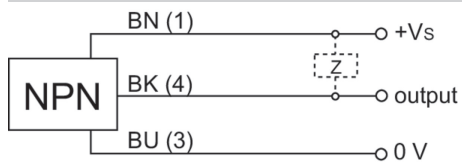
Cable

Bending radius (mobile) 10 × outer diameter

Dimension drawing



Connection diagram



Response diagram

