

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 S _n	1.6 mm	Dimension	5 mm
Assured sensing distance S _a	≤ 81 % of S _n	Housing length	20 mm
Real sensing distance S _r	± 10 % von S _n	Connection types	Flylead connector M8 3 pin
Temperature drift	± 10 % of S _r	Tightening torque max.	1.4 Nm
Hysteresis	2 ... 20 % of S _r	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 make function (NO)	MTTF	1245 years
Voltage drop V _d	<2 VDC	Diagnostic coverage (DC)	0 %
Output current	100 mA	Cable	
Short circuit protection	Yes	Head A: Gender	Male
Reverse polarity protection	Yes	Head A: Angle cable outlet	0°
Mechanical data		Head A: Coding	A
Design	Cylindrical threaded	Head A: No. of poles	3
Material (sensing face)	POM	Head A: LED	No
		Head A: Knurled nut material	Brass, surface Ni

Technical data

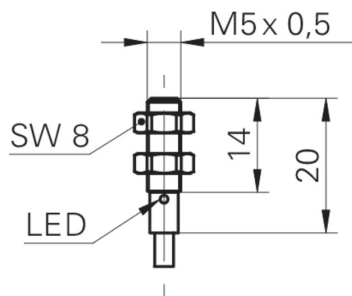
Cable

Cable length	20 cm
Shielded	No
External sheath: Material	PUR
Cable diameter	2.8 mm

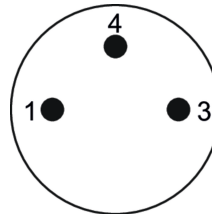
Cable

Wire cross section	0.09 mm ²
Insulation: Material	PP
Bending radius (fixed)	5 × outer diameter
Bending radius (mobile)	10 × outer diameter

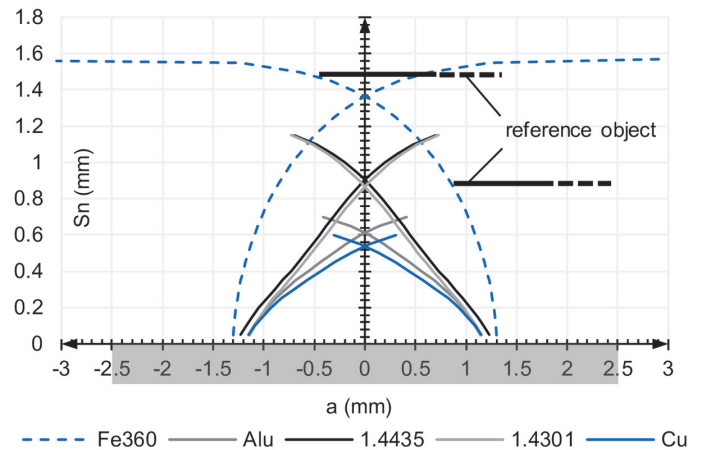
Dimension drawing



Pin assignment

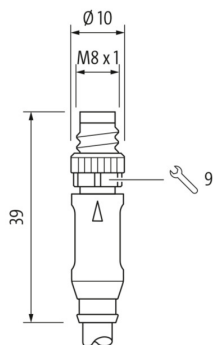


Response diagram



Variants of integration

Dimensions connector



Connection diagram

