

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

Mounting type	Flush
Nominal sensing distance Sn	1.6 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
Correction factor typ.	Mild steel 100 %, stainless steel 65 %, aluminum 40 %, copper 35 %
Reference object	Fe360 5 x 5 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	NPN break function (NC)
Voltage drop Vd	<2 VDC
Output current	100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Design	Cylindrical threaded
Material (sensing face)	POM

Mechanical data

Housing material	Stainless steel (V2A)
Dimension	5 mm
Housing length	20 mm
Connection types	Flylead connector M8 3 pin
Tightening torque max.	1.4 Nm
Weight	17 g

Ambient conditions

Operating temperature	-25 ... +75 °C
Storage temperature	-40 ... +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	1245 years
Diagnostic coverage (DC)	0 %

Cable

Head A: Gender	Male
Head A: Angle cable outlet	0°
Head A: Coding	A
Head A: No. of poles	3
Head A: LED	No
Head A: Knurled nut material	Brass, surface Ni

Technical data

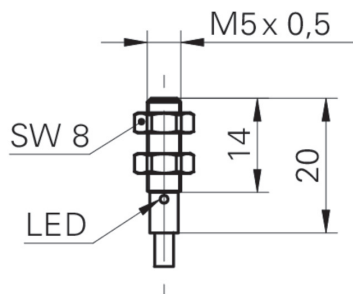
Cable

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

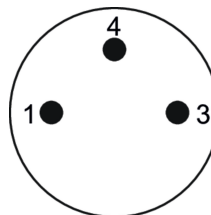
Cable

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

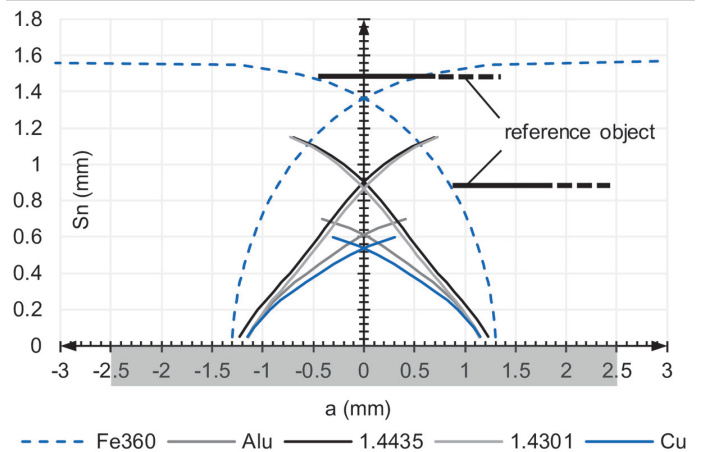
Dimension drawing



Pin assignment

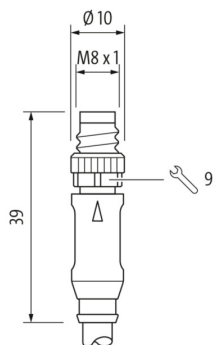


Response diagram



Variants of integration

Dimensions connector



Connection diagram

