

Overview

- Cylindrical standard housing for versatile use
- Factor 1 - Same high distances on any metal
- 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
Special type	Factor 1
Nominal sensing distance Sn	2 mm
Assured sensing distance Sa	≤ 81 % of Sn
Real sensing distance Sr	± 10 % von Sn
Hysteresis	3 ... 20 % of Sr
Output indicator	LED red
Correction factor typ.	Mild steel 100 %, stainless steel 100 %, aluminum 100 %, copper 100 %
Reference object	Fe360 6 x 6 x 1 mm

Electrical data

Switching frequency	3 kHz
Voltage supply range +Vs	5 ... 36 VDC
Current consumption max. (no load)	12 mA
Output circuit	NPN make function (NO)
Voltage drop Vd	<2 VDC
Output current	200 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Design	Cylindrical smooth
Material (sensing face)	PBT

Mechanical data

Housing material	Stainless steel (V2A)
Dimension	6.5 mm
Housing length	40 mm
Connection types	Cable, L=2 m
Weight	31 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	775 years
Diagnostic coverage (DC)	0 %

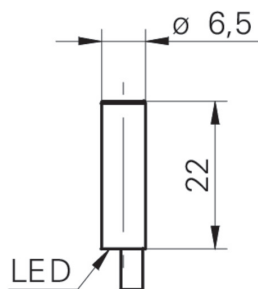
Cable

Cable length	200 cm
Shielded	No
External sheath: Material	PVC
Cable diameter	3.0 mm
Wire cross section	0.14 mm ²
Insulation: Material	PVC
Bending radius (fixed)	3 × outer diameter
Bending radius (mobile)	10 × outer diameter

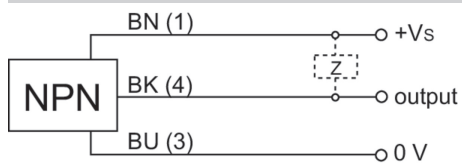
Remarks

- Robust steel housings
- High switching frequency
- Same sensing distance on all metals (no reduction factor)

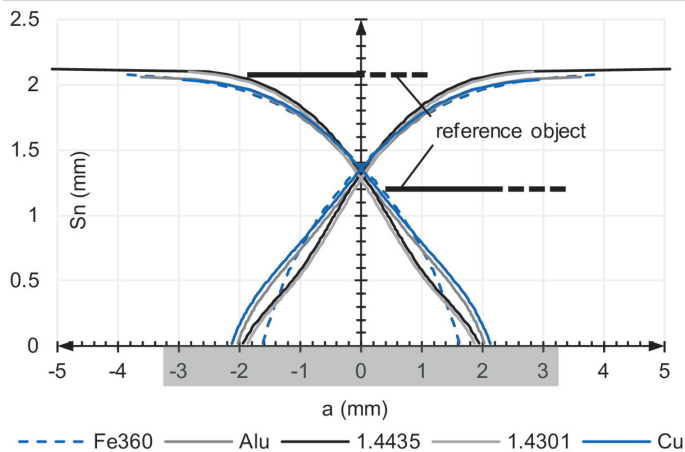
Dimension drawing



Connection diagram



Response diagram



IR06.P02F-F40.NO1Z.7SCV

Inductive proximity switch - factor 1 - all metals

Article number: 11119423

Accessories**Mounting accessories**

10109474	10109474
10117742	10117742