

## Overview

- Cylindrical standard housing for versatile use
- Extended sensing 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



Picture similar



## Technical data

### General data

Mounting type	Non-flush
Nominal sensing distance Sn	10 mm
Assured sensing distance Sa	≤ 81 % of Sn
Real sensing distance Sr	± 10 % von Sn
Temperature drift	± 10 % of Sr
Hysteresis	3 ... 20 % of Sr
Output indicator	LED red
Correction factor typ.	Mild steel 100 %, stainless steel 70 %, aluminum 50 %, copper 45 %
Reference object	Fe360 30 x 30 x 1 mm

### Electrical data

Switching frequency	1.5 kHz
Voltage supply range +Vs	6 ... 36 VDC
Current consumption max. (no load)	10 mA
Output circuit	NPN break function (NC)
Voltage drop Vd	<2 VDC
Output current	100 mA
Short circuit protection	Yes

### Electrical data

Reverse polarity protection	Yes
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### Mechanical data

Design	Cylindrical threaded
Material (sensing face)	PBT
Housing material	Brass nickel plated
Dimension	12 mm
Housing length	50 mm
Connection types	Connector M12 4 pin
Tightening torque max.	10 Nm

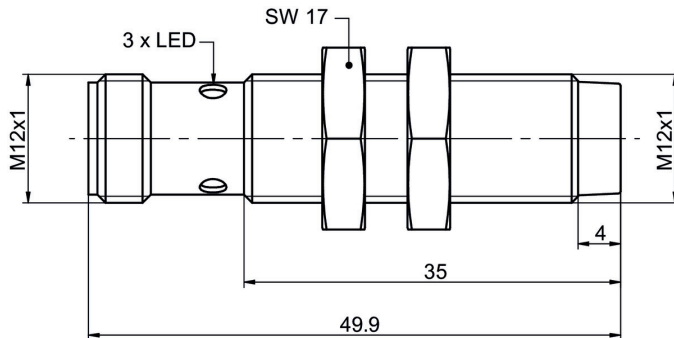
### Ambient conditions

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

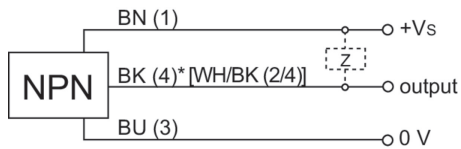
### Safe maximum values

MTTF	758 years
Diagnostic coverage (DC)	0 %

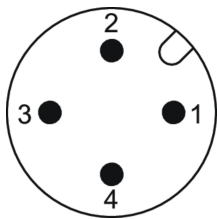
#### Dimension drawing



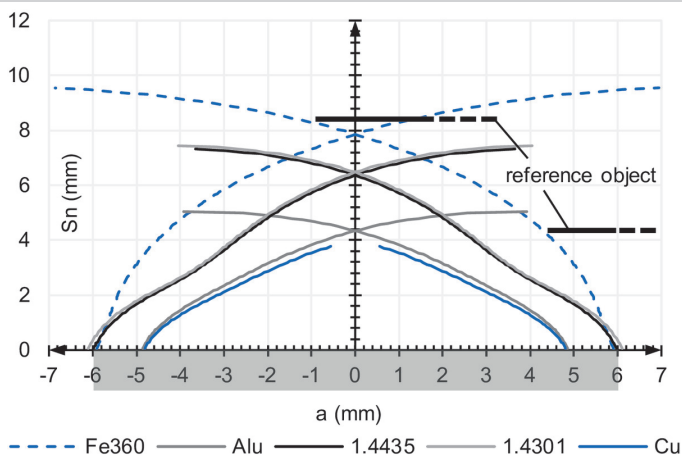
#### Connection diagram



#### Pin assignment



#### Response diagram



**Accessories****Mounting accessories**

10151720	Sensofix series 12 round
11707685	Mounting rod with mounting plate holder 200 mm
11707686	Mounting rod with mounting plate holder 300 mm
11707688	Mounting rod 200 mm
11707697	Mounting rod 250 mm
11707698	Mounting rod with mounting plate holder 250 mm
11707687	Mounting rod 300 mm
11707701	Mounting plate series 300 and ø12 mm
11707702	Mounting base
11707703	Two-way connector