

Overview

- Cylindrical standard housing for versatile use
- Non-flush design for an increased sensing distance
- 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 | 4 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 12 x 12 x 1 mm |

Electrical data

| | |
|------------------------------------|-------------------------|
| Switching frequency | 5 kHz 0 |
| Voltage supply range +Vs | 6 ... 36 VDC |
| Current consumption max. (no load) | 12 mA |
| Output circuit | NPN break function (NC) |
| Voltage drop Vd | <2 VDC |
| Output current | 200 mA |
| Short circuit protection | Yes |

Electrical data

| | |
|-----------------------------|-----|
| Reverse polarity protection | Yes |
|-----------------------------|-----|

Mechanical data

| | |
|-------------------------|-----------------------|
| Design | Cylindrical threaded |
| Material (sensing face) | PBT |
| Housing material | Stainless steel (V2A) |
| Dimension | 8 mm |
| Housing length | 46 mm |
| Connection types | Connector M8, 3 pin |
| Tightening torque max. | 7 Nm |

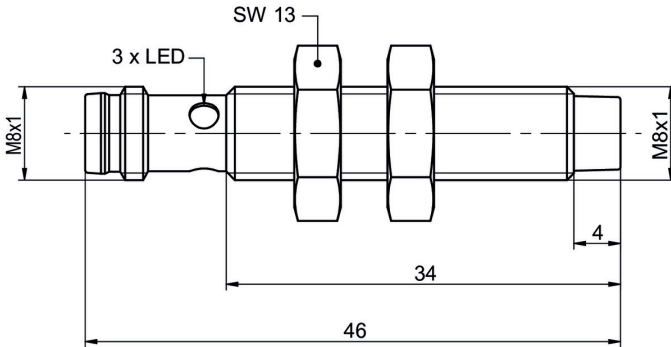
Ambient conditions

| | |
|-----------------------|--|
| 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 |

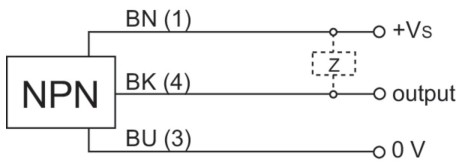
Safe maximum values

| | |
|--------------------------|------------|
| MTTF | 1073 years |
| Diagnostic coverage (DC) | 0 % |

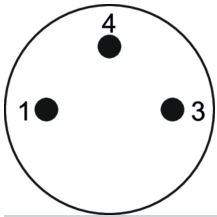
Dimension drawing



Connection diagram



Pin assignment



Accessories

Mounting accessories

10151719

Sensofix series 08 round