

### 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                  | Quasi-flush                                                        |
| Nominal sensing distance<br>Sn | 12 mm                                                              |
| Assured sensing distance<br>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 80 %, aluminum 30 %, copper 30 % |
| Reference object               | Fe360 36 x 36 x 1 mm                                               |

#### Electrical data

|                                       |                         |
|---------------------------------------|-------------------------|
| Switching frequency                   | 400 Hz                  |
| Voltage supply range +Vs              | 6 ... 36 VDC            |
| Current consumption max.<br>(no load) | 10 mA                   |
| Output circuit                        | PNP break function (NC) |
| Voltage drop Vd                       | <2 VDC                  |
| Output current                        | 100 mA                  |
| Short circuit protection              | Yes                     |

#### Electrical data

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

#### Mechanical data

|                         |                      |
|-------------------------|----------------------|
| Design                  | Cylindrical threaded |
| Material (sensing face) | PBT                  |
| Housing material        | Brass nickel plated  |
| Dimension               | 18 mm                |
| Housing length          | 60 mm                |
| Connection types        | Connector M12 4 pin  |
| Tightening torque max.  | 40 Nm                |
| Weight                  | 64 g                 |

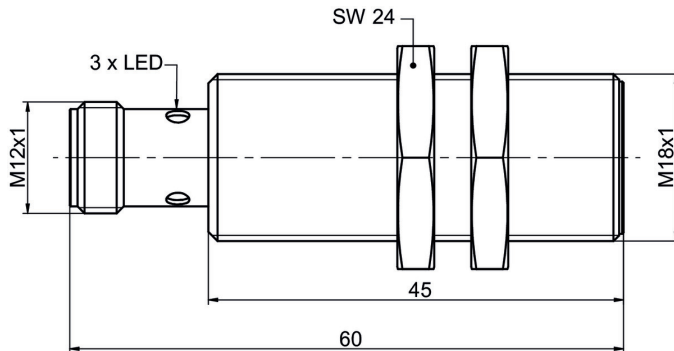
#### Ambient conditions

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

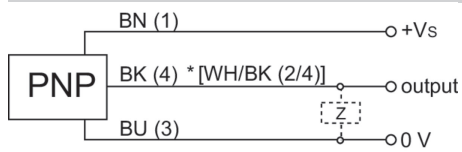
#### Safe maximum values

|                          |           |
|--------------------------|-----------|
| MTTF                     | 700 years |
| Diagnostic coverage (DC) | 0 %       |

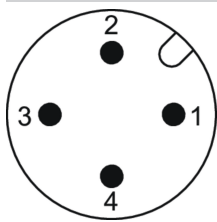
#### Dimension drawing



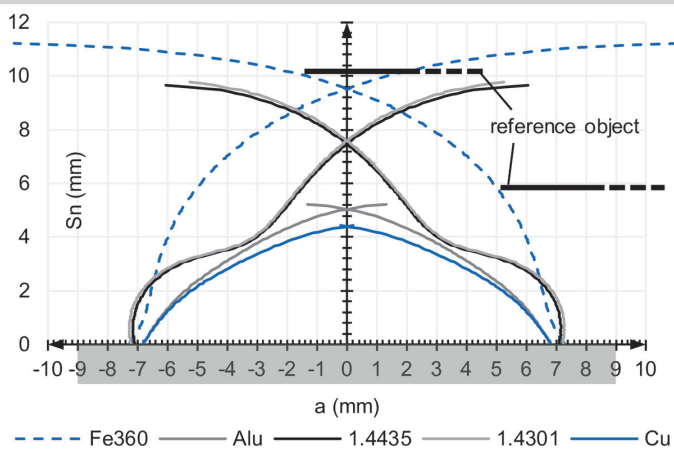
#### Connection diagram



#### Pin assignment



#### Response diagram



## Accessories

### Mounting accessories

|          |                                                   |
|----------|---------------------------------------------------|
| 10151658 | Sensofix series 18                                |
| 11172096 | ZADAP-M18.STANDARD                                |
| 11171584 | ZADAP-M18.SHORT                                   |
| 11172095 | ZADAP-M18.LONG                                    |
| 11707685 | Mounting rod with mounting plate holder<br>200 mm |
| 11707686 | Mounting rod with mounting plate holder<br>300 mm |
| 11707688 | Mounting rod 200 mm                               |
| 11707697 | Mounting rod 250 mm                               |
| 11707698 | Mounting rod with mounting plate holder<br>250 mm |
| 11707687 | Mounting rod 300 mm                               |
| 11707699 | Mounting plate series 500 and ø18 mm              |
| 11707702 | Mounting base                                     |
| 11707703 | Two-way connector                                 |