

## Overview

- Cylindrical standard housing for versatile use
- 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                                                                 |
| Nominal sensing distance<br>Sn | 8 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 85 %,<br>aluminum 45 %, copper 40 % |
| Reference object               | Fe360 24 x 24 x 1 mm                                                  |

### Electrical data

|                                       |                        |
|---------------------------------------|------------------------|
| Switching frequency                   | 500 Hz                 |
| Voltage supply range +Vs              | 6 ... 36 VDC           |
| Current consumption max.<br>(no load) | 10 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 threaded |
| Material (sensing face) | PBT                  |

### Mechanical data

|                        |                     |
|------------------------|---------------------|
| Housing material       | Brass nickel plated |
| Dimension              | 18 mm               |
| Housing length         | 50 mm               |
| Connection types       | Cable, L=2 m        |
| Tightening torque max. | 40 Nm               |
| Weight                 | 99 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<br>Hz, duration 150 min per axis |
| Shock resistance      | IEC 60068-2-27:2009 100 g / 6 ms, 10<br>jolts per axis and direction      |

### Safe maximum values

|                          |            |
|--------------------------|------------|
| MTTF                     | 1240 years |
| Diagnostic coverage (DC) | 0 %        |

### Cable

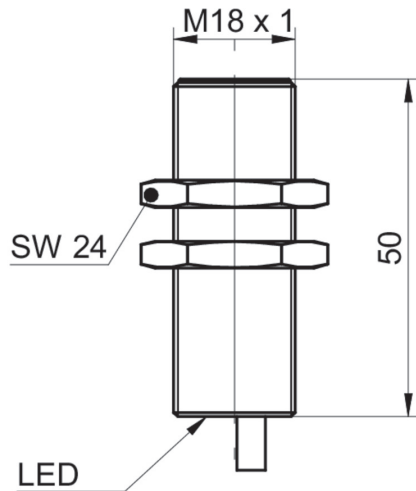
|                           |                    |
|---------------------------|--------------------|
| Cable length              | 200 cm             |
| Shielded                  | No                 |
| External sheath: Material | PVC                |
| Cable diameter            | 4.2 mm             |
| Wire cross section        | 0.25 mm²           |
| Insulation: Material      | PVC                |
| Bending radius (fixed)    | 5 × outer diameter |

#### Technical data

##### Cable

Bending radius (mobile) 10 × outer diameter

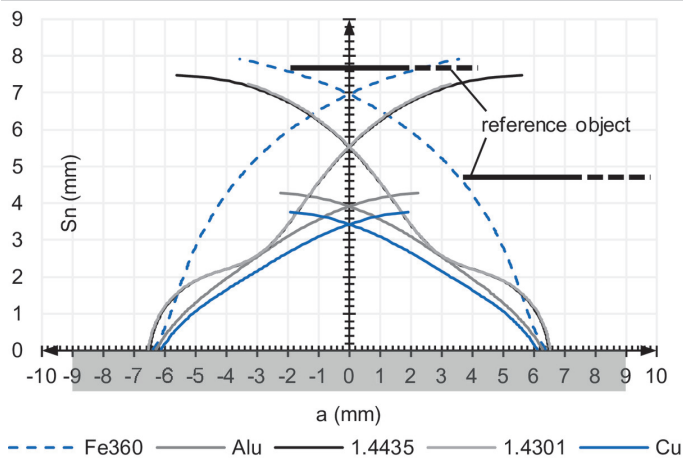
#### Dimension drawing



#### Connection diagram



#### 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                                 |