

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 Sn	12 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 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. (no load)	10 mA
Output circuit	NPN break function (NC)
Voltage drop Vd	<2 VDC
Output current	100 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	98 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	1103 years
Diagnostic coverage (DC)	0 %

Cable

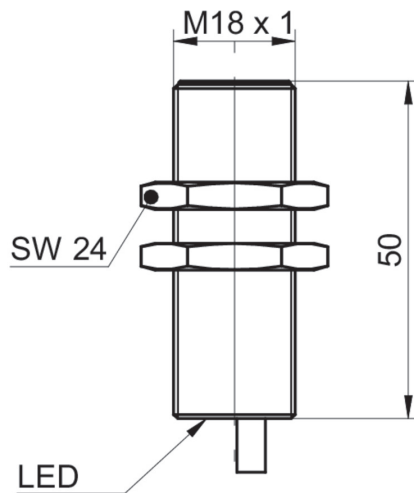
Cable length	200 cm
Shielded	No
External sheath: Material	PVC
Cable diameter	4.2 mm
Wire cross section	0.25 mm²
Insulation: Material	PVC
Bending radius (fixed)	5 × outer diameter

Technical data

Cable

Bending radius (mobile) 10 × outer diameter

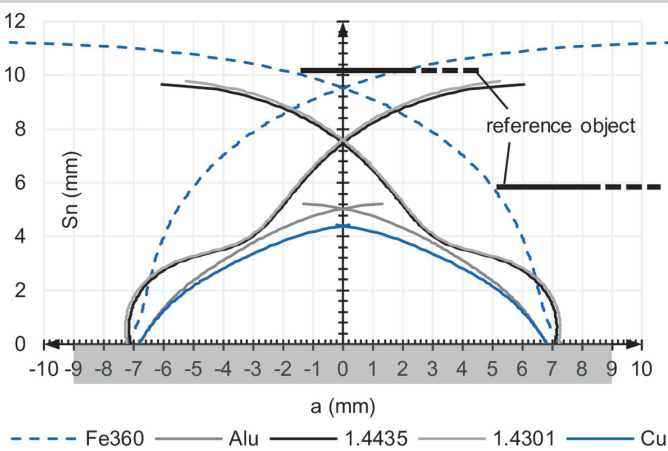
Dimension drawing



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 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
11707699	Mounting plate series 500 and ø18 mm
11707702	Mounting base
11707703	Two-way connector