

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

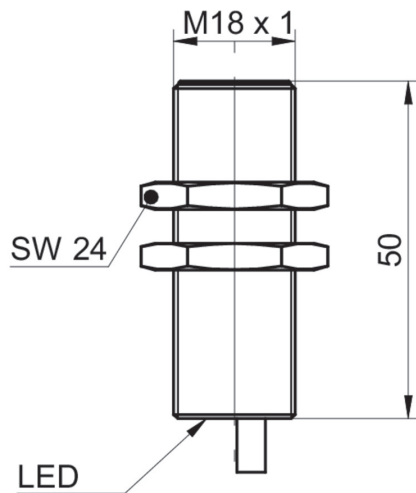
General data		Mechanical data	
Mounting type	Quasi-flush	Housing material	Brass nickel plated
Nominal sensing distance Sn	12 mm	Dimension	18 mm
Assured sensing distance Sa	≤ 81 % of Sn	Housing length	50 mm
Real sensing distance Sr	± 10 % von Sn	Connection types	Cable, L=2 m
Temperature drift	± 10 % of Sr	Tightening torque max.	40 Nm
Hysteresis	3 ... 20 % of Sr	Weight	98 g
Output indicator	LED red	Ambient conditions	
Correction factor typ.	Mild steel 100 %, stainless steel 80 %, aluminum 30 %, copper 30 %	Operating temperature	-25 ... +75 °C
Reference object	Fe360 36 x 36 x 1 mm	Storage temperature	-25 ... +75 °C
Electrical data		Protection class	IP 67
Switching frequency	400 Hz	Vibration resistance	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Voltage supply range +Vs	6 ... 36 VDC	Shock resistance	IEC 60068-2-27:2009 100 g / 6 ms, 10 jolts per axis and direction
Current consumption max. (no load)	10 mA	Safe maximum values	
Output circuit	NPN make function (NO)	MTTF	1103 years
Voltage drop Vd	<2 VDC	Diagnostic coverage (DC)	0 %
Output current	100 mA	Cable	
Short circuit protection	Yes	Cable length	200 cm
Reverse polarity protection	Yes	Shielded	No
Mechanical data		External sheath: Material	PVC
Design	Cylindrical threaded	Cable diameter	4.2 mm
Material (sensing face)	PBT	Wire cross section	0.25 mm²
		Insulation: Material	PVC
		Bending radius (fixed)	5 × outer diameter

Technical data

Cable

Bending radius (mobile) 10 × outer diameter

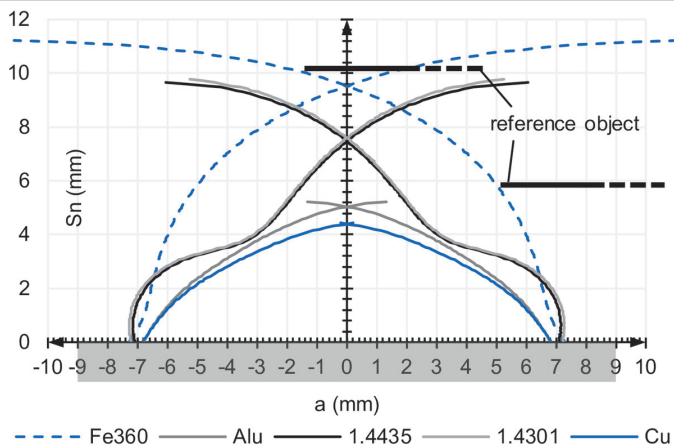
Dimension drawing



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