

Overview

- Cylindrical standard housing for versatile use
- Factor 1 - Same high distances on any metal
- 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
Special type	Factor 1
Nominal sensing distance Sn	8 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 100 %, aluminum 100 %, copper 100 %
Reference object	Fe360 24 x 24 x 1 mm

Electrical data

Switching frequency	500 Hz
Voltage supply range +Vs	5 ... 36 VDC
Current consumption max. (no load)	12 mA
Output circuit	PNP 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
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Mechanical data

Material (sensing face)	PBT
Housing material	Brass nickel plated
Dimension	18 mm
Housing length	50 mm
Connection types	Cable, L=2 m
Tightening torque max.	40 Nm
Weight	100 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	775 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

IR18.P08F-Q50.PO1Z.7BCV

Inductive proximity switch - factor 1 - all metals

Article number: 11119476

Technical data

Cable

Bending radius (fixed) 5 × outer diameter

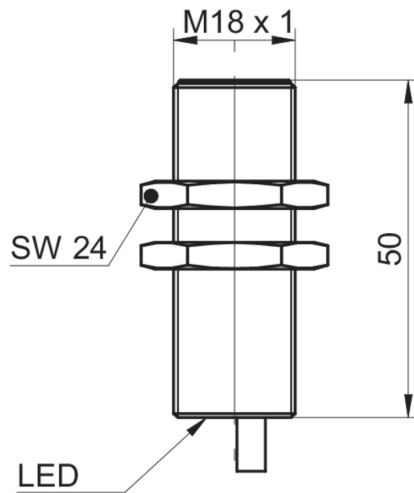
Cable

Bending radius (mobile) 10 × outer diameter

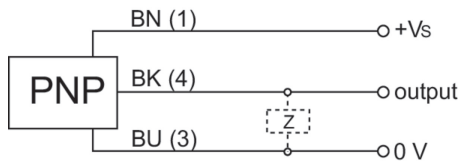
Remarks

- Not for flush mounting in metals
- Same sensing distance on all metals (no reduction factor)

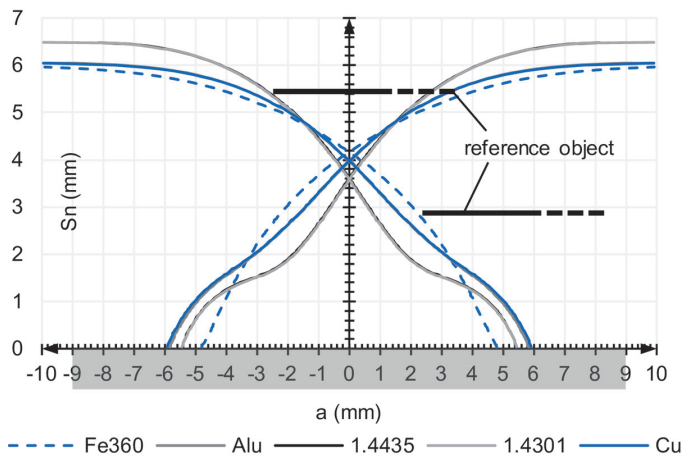
Dimension drawing



Connection diagram



Response diagram



IR18.P08F-Q50.PO1Z.7BCV

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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