Baumer
Passion for Sensors

Inductive proximity switch

IR08.P03S.2-Q40.PO1Z.7SCV

Article number: 11725020

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	3 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 60 %, aluminum 30 %, copper 20 %
Reference object	Fe360 9 x 9 x 1 mm
Electrical data	
Switching frequency	2 kHz
Voltage supply range +Vs	6 … 36 VDC
Current consumption max. (no load)	10 mA
Output circuit	PNP make function (NO)
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	Stainless steel (V2A)
Dimension	8 mm
Housing length	40 mm
Connection types	Cable, L=2 m
Tightening torque max.	7 Nm
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	1833 years
Diagnostic coverage (DC)	0 %
Cable	
Cable length	200 cm
Shielded	No
External sheath: Material	PVC
Cable diameter	3.0 mm
Wire cross section	0.14 mm²
Insulation: Material	PVC
Bending radius (fixed)	3 × outer diameter
Bending radius (mobile)	10 × outer diameter

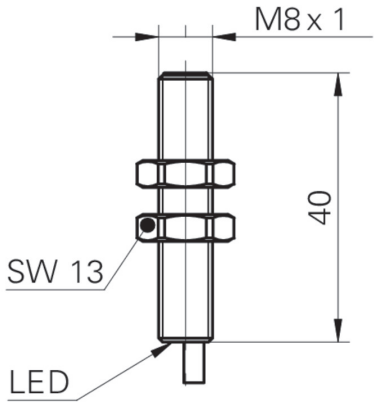
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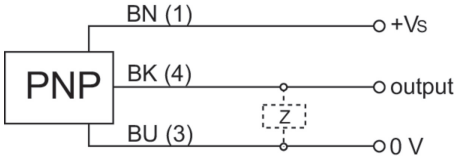
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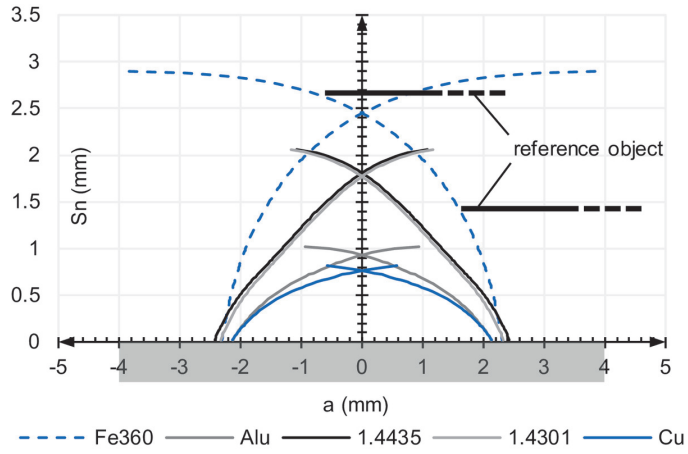
Dimension drawing



Connection diagram



Response diagram



Accessories

Mounting accessories

10151719	Sensofix series 08 round

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