Baumer
Passion for Sensors

Inductive proximity switch

IR06.P04S-N40.NC1Z.7SCV

Article number: 11724962

Overview

- Cylindrical miniature housing for limited installation space
- Non-flush design for an increased sensing distance
- 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	Non-flush
Nominal sensing distance Sn	4 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 70 %, aluminum 50 %, copper 45 %
Reference object	Fe360 12 x 12 x 1 mm
Electrical data	
Switching frequency	5 kHz 0
Voltage supply range +Vs	6 … 36 VDC
Current consumption max. (no load)	12 mA
Output circuit	NPN break function (NC)
Voltage drop Vd	<2 VDC
Output current	200 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Mechanical data	
Design	Cylindrical smooth
Material (sensing face)	PBT

Mechanical data	
Housing material	Stainless steel (V2A)
Dimension	6.5 mm
Housing length	40 mm
Connection types	Cable, L=2 m
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	1073 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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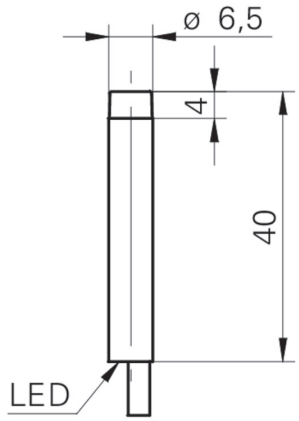
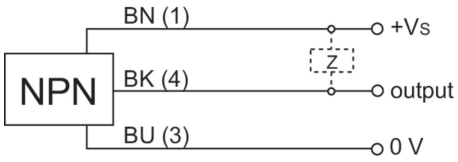
Dimension drawing



Connection diagram



Accessories

Mounting accessories	
10109474	10109474
10117742	10117742