Baumer
Passion for Sensors

Inductive proximity switch

I60.P01S-F20.NC1Z.7BCU

Article number: 11725708

Overview

- Rectangular miniature sensor for tight spaces
- Lowest serial dispersion due to end-of-line calibration
- Robust even in demanding environments
- Temperature and long-term stable switching behavior
- PUR cable with high chemical resistance

Picture similar

Technical data

General data	
Mounting type	Flush
Nominal sensing distance Sn	1 mm
Assured sensing distance Sa	≤ 81 % of Sn
Real sensing distance Sr	± 10 % von Sn
Temperature drift	± 10 % of Sr
Hysteresis	2 … 20 % of Sr
Output indicator	LED red
Correction factor typ.	Mild steel 100 %, stainless steel 80 %, aluminum 60 %, copper 55 %
Reference object	Fe360 6 x 6 x 1 mm
Electrical data	
Switching frequency	5 kHz
Voltage supply range +Vs	6 … 30 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	Rectangular
Material (sensing face)	LCP

Mechanical data	
Housing material	Brass nickel plated
Dimension	6 mm
Housing length	20 mm
Connection types	Cable, L=2 m
Weight	19 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	1312 years
Diagnostic coverage (DC)	0 %
Cable	
Cable length	200 cm
Shielded	No
External sheath: Material	PUR
Cable diameter	2.8 mm
Wire cross section	0.095 mm²
Insulation: Material	PP
Bending radius (fixed)	5 × outer diameter
Bending radius (mobile)	10 × outer diameter

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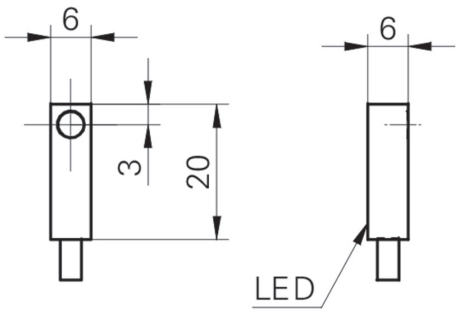
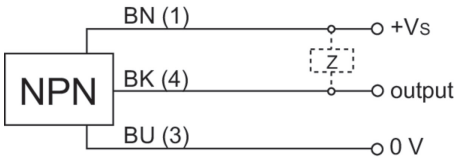
Dimension drawing



Connection diagram



Response diagram