Baumer
Passion for Sensors

Inductive proximity switch

# IR06.P03S.2-Q40.PO1Z.7SCV

Article number: 11725001

## 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 55 %, aluminum 25 %, 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 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 | 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 |

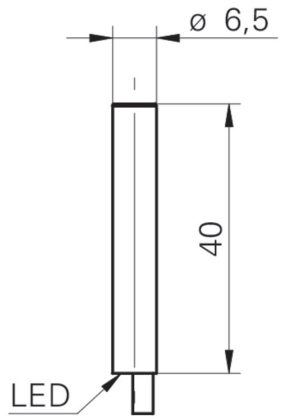
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Inductive proximity switch

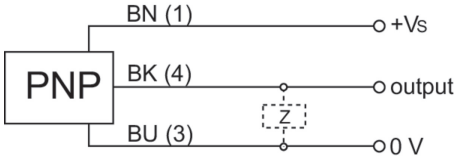
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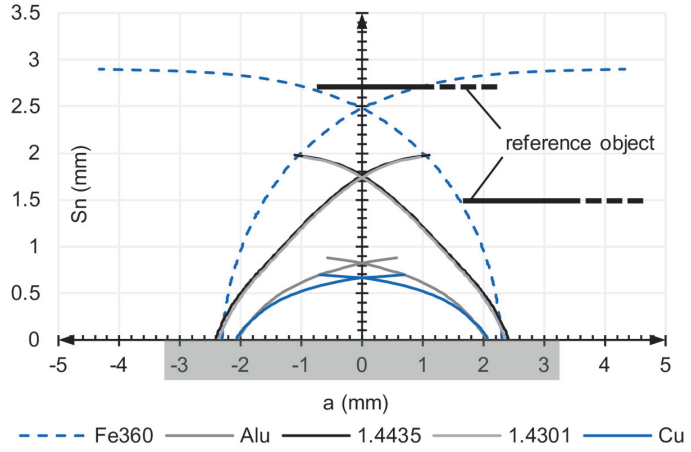
## Dimension drawing




## Connection diagram




## Response diagram




## Accessories

| Mounting accessories | |
|---|---|
| 10109474 | 10109474 |
| 10117742 | 10117742 |

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