Inductive proximity switch

# IR18.P15S-N35.PC1Z.7BCV

Inductive proximity switch - large sensing distance

Article number: 11149164

## Overview

- 15 mm
- PNP break function (NC)
- cable, 2 m
- 65 °C
- IP 67

*Picture similar*

## Technical data

### General data

| | |
|---|---|
| Mounting type | Non-flush |
| Special type | Enhanced distance (GammaProx) |
| Nominal sensing distance Sn | 15 mm |
| Temperature drift | - 5 % / + 10 % (+10 ... +60 °C)<br>- 5 % / + 15 % (0 ... +65 °C) |
| Hysteresis | 3 … 20 % of Sr |
| Output indicator | LED red |
| Correction factor typ. | Mild steel 100 %, stainless steel 85 %, aluminum 55 % |

### Electrical data

| | |
|---|---|
| Switching frequency | 400 Hz |
| Voltage supply range +Vs | 6 … 36 VDC |
| Current consumption max. (no load) | 10 mA |
| Output circuit | PNP break function (NC) |

### Electrical data

| | |
|---|---|
| Voltage drop Vd | < 2 VDC |
| Output current | < 100 mA |
| Short circuit protection | Yes |
| Reverse polarity protection | Yes |

### Mechanical data

| | |
|---|---|
| Type | Cylindrical threaded |
| Material (sensing face) | PBT |
| Housing material | Brass nickel plated |
| Dimension | 18 mm |
| Housing length | 35 mm |
| Connection types | Cable, L=2 m |
| Tightening torque max. | 40 Nm |

### Ambient conditions

| | |
|---|---|
| Operating temperature | 0 … +65 °C |
| Protection class | IP 67 |

## Remarks

- Increased sensing distance

## Dimension drawing



M18 x 1
8
35
SW 24
LED

## Connection diagram



PNP

BN (1) — +Vs
BK (4) — output
BU (3) — 0 V

Z
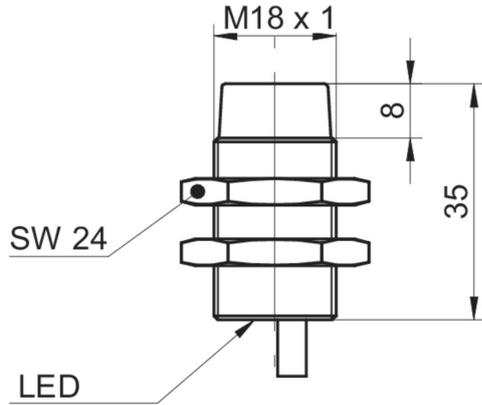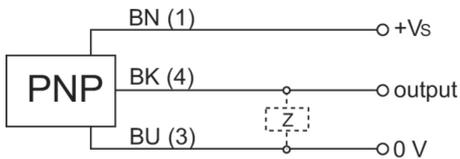
## Correction factors for different mounting situation (approx.)



2 Sn
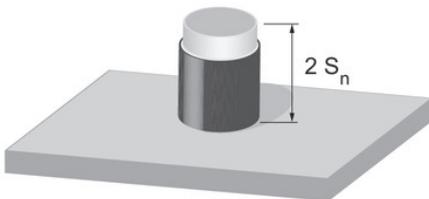
| Mounting material | Correction factor |
|---|---|
| Mild steel | 100 % |
| Stainless steel | 100 % |
| Aluminum | 100 % |



1 Sn
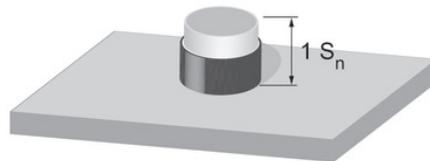
| Mounting material | Correction factor |
|---|---|
| Mild steel | 105 % |
| Stainless steel | 100 % |
| Aluminum | 100 % |



| Mounting material | Correction factor |
|---|---|
| Mild steel | not possible |
| Stainless steel | 115% |
| Aluminum | 95 % |
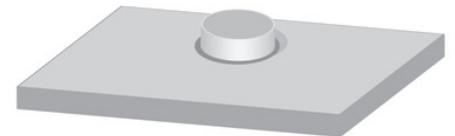
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## Mounting instructions