

## IFRR 12P13T1/PL-9

Inductive proximity switch - outdoor and washdown

Article number: 11013653

### Overview

- 6 mm
- PNP make function (NO)
- cable PUR 3 x 0,25, 2 m
- -40 ... 80 °C
- IP 68/69K & proTect+



Picture similar



### Technical data

#### General data

|  |                              |
|--|------------------------------|
| Mounting type                              | Non-flush                    |
| Special type                               | Outdoor design               |
| Nominal sensing distance<br>S <sub>n</sub> | 6 mm                         |
| Hysteresis                                 | 2 ... 15 % of S <sub>r</sub> |
| Output indicator                           | LED red                      |

#### Electrical data

|   |                        |
|---|------------------------|
| Switching frequency                         | < 1 kHz                |
| Voltage supply range +V <sub>s</sub>        | 6 ... 30 VDC           |
| Current consumption max.<br>(no load)       | 10 mA                  |
| Output circuit                              | PNP make function (NO) |
| Voltage drop V <sub>d</sub>                 | < 2 VDC                |
| Output current                              | < 200 mA               |
| Output current (at cleaning<br>temperature) | < 100 mA               |
| Short circuit protection                    | Yes                    |

#### Electrical data

|                             |     |
|-----------------------------|-----|
| Reverse polarity protection | Yes |
|-----------------------------|-----|

#### Mechanical data

|                         |                                   |
|-------------------------|-----------------------------------|
| Type                    | Cylindrical threaded              |
| Material (sensing face) | LCP                               |
| Housing material        | Stainless steel 1.4404 (V4A); LSR |
| Dimension               | 12 mm                             |
| Housing length          | 55 mm                             |
| Connection types        | Cable PUR 3 x 0,25, 2 m           |
| Tightening torque max.  | 20 Nm (Front: 14 Nm)              |

#### Ambient conditions

|                       |   |
|-----------------------|---|
| Operating temperature | -40 ... +80 °C  |
| Cleaning temperature  | 80 ... +100 °C (30 min/day)   |
| Protection class      | IP 68/69K & proTect+  |
| Vibration resistance  | EN 61373: 2010 (category 3), 5h per axis<br>(14.4 gRMS, 10-500 Hz, EN 60068-2-64) |
| Shock resistance      | EN 61373: 2010 (category 3), 10 bumps<br>per axis (100 g, 6 ms, EN 60068-2-27)    |

### Remarks

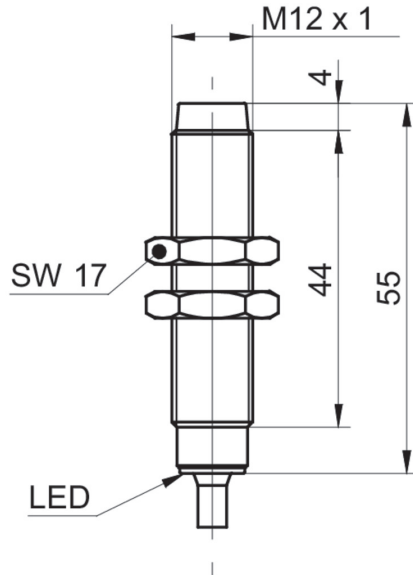
- LSR = Liquid Silicon Rubber

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### Dimension drawing



### Connection diagram

