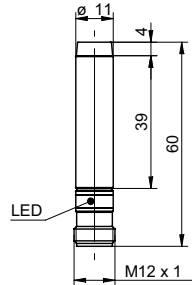


# Inductive proximity switch

## IFBR 11P33T1/S14L-9

### dimension drawing



### general data

|                                |                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mounting type                  | non-flush                                                                                                                                                          |
| special type                   | hygienic design                                                                                                                                                    |
| nominal sensing distance $S_n$ | 6 mm                                                                                                                                                               |
| hysteresis                     | 2 ... 15 % of $S_r$                                                                                                                                                |
| output indicator               | LED red                                                                                                                                                            |
| approvals/certificates         | Ecolab<br>EHEDG<br>REGULATION (EC) 1935/2004<br>REGULATION (EC) 2023/2006<br>REGULATION (EU) 1282/2011<br>FDA 21 CFR § 175.300<br>FDA 21 CFR § 177.2600<br>FCN 742 |

### electrical data

|                                          |                         |
|------------------------------------------|-------------------------|
| switching frequency                      | < 1 kHz                 |
| voltage supply range +Vs                 | 10 ... 30 VDC           |
| current consumption max. (no load)       | 10 mA                   |
| output circuit                           | PNP break function (NC) |
| voltage drop $V_d$                       | < 2 VDC                 |
| output current                           | < 200 mA                |
| output current (at cleaning temperature) | < 100 mA                |
| short circuit protection                 | yes                     |
| reverse polarity protection              | yes                     |

### mechanical data

|                         |                                   |
|-------------------------|-----------------------------------|
| type                    | cylindrical smooth                |
| material (sensing face) | LCP                               |
| housing material        | stainless steel 1.4404 (V4A); LSR |
| dimension               | 11 mm                             |
| housing length          | 60 mm                             |
| connection types        | connector M12                     |

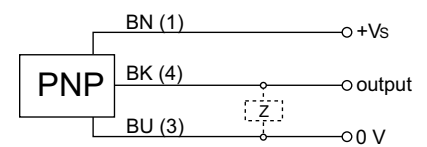
### ambient conditions

|                       |                             |
|-----------------------|-----------------------------|
| operating temperature | -40 ... +80 °C              |
| cleaning temperature  | 80 ... +100 °C (30 min/day) |
| protection class      | IP 68/69K & proTect+        |

### photo



### connection diagram



- Sensor compliant with various food regulations (see approvals)
- LSR = Liquid Silicon Rubber