

## IFRR 18N13T1/L-9

Inductive proximity switch - washdown

Article number: 11016050

### overview

- 12 mm
- NPN make function (NO)
- cable PVC, 2 m
- -40 ... 80 °C
- IP 68/69K & proTect+



### Technical data

#### general data

|                                            |                              |
|--------------------------------------------|------------------------------|
| mounting type                              | non-flush                    |
| special type                               | Washdown design              |
| nominal sensing distance<br>S <sub>n</sub> | 12 mm                        |
| hysteresis                                 | 2 ... 15 % of S <sub>r</sub> |
| output indicator                           | LED red                      |
| approvals/certificates                     | Ecolab                       |

#### electrical data

|                                             |                        |
|---------------------------------------------|------------------------|
| switching frequency                         | < 500 Hz               |
| voltage supply range +V <sub>s</sub>        | 10 ... 30 VDC          |
| current consumption max.<br>(no load)       | 10 mA                  |
| output circuit                              | NPN 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               | 18 mm                             |
| housing length          | 55 mm                             |
| connection types        | cable PVC, 2 m                    |
| tightening torque max.  | 55 Nm (Front: 38 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

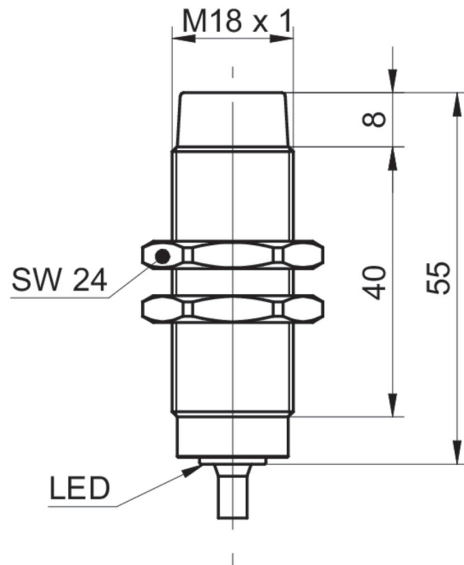
- Sensor FDA compliant and Ecolab approved
- LSR = Liquid Silicon Rubber

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### dimension drawing



### connection diagram

