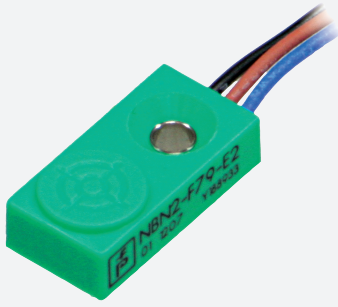


# Inductive sensor

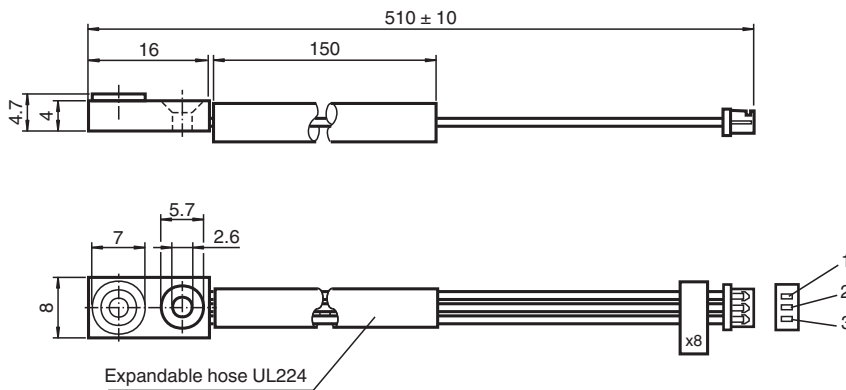
## NBN2-F79-E2-Y188931



- Basic series
- 2 mm non-flush



### Dimensions



### Technical Data

| General specifications      |       |                    |
|-----------------------------|-------|--------------------|
| Switching function          |       | Normally open (NO) |
| Output type                 |       | PNP                |
| Rated operating distance    | $s_n$ | 2 mm               |
| Installation                |       | non-flush          |
| Output polarity             |       | DC                 |
| Assured operating distance  | $s_a$ | 0 ... 1.8 mm       |
| Reduction factor $r_{Al}$   |       | 0.3                |
| Reduction factor $r_{Cu}$   |       | 0.2                |
| Reduction factor $r_{304}$  |       | 0.7                |
| Output type                 |       | 3-wire             |
| Nominal ratings             |       |                    |
| Operating voltage           | $U_B$ | 5 V -5% +10%       |
| Switching frequency         | $f$   | 0 ... 800 Hz       |
| Hysteresis                  | $H$   | typ. 5 %           |
| Reverse polarity protection |       | no                 |
| Short-circuit protection    |       | pulsing            |

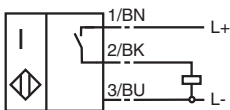
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## Technical Data

|   |       |   |
|---|-------|---|
| Voltage drop                                    | $U_d$ | $\leq 1.5 \text{ V}$                                      |
| Operating current                               | $I_L$ | 0 ... 100 mA  |
| Off-state current                               | $I_r$ | $\leq 10 \mu\text{A}$                                     |
| No-load supply current                          | $I_0$ | $\leq 15 \text{ mA}$                                      |
| Time delay before availability                  | $t_v$ | $\leq 20 \text{ ms}$                                      |
| <b>Functional safety related parameters</b>     |       |   |
| MTTF <sub>d</sub>                               |       | 4830 a  |
| Mission Time (T <sub>M</sub> )                  |       | 20 a  |
| Diagnostic Coverage (DC)                        |       | 0 %   |
| <b>Compliance with standards and directives</b> |       |   |
| Standard conformity                             |       |   |
| Standards                                       |       | EN IEC 60947-5-2  |
| <b>Approvals and certificates</b>               |       |   |
| UL approval                                     |       | cULus Listed, General Purpose                             |
| CSA approval                                    |       | cCSAus Listed, General Purpose                            |
| <b>Ambient conditions</b>                       |       |   |
| Ambient temperature                             |       | 15 ... 35 °C (59 ... 95 °F)                               |
| <b>Mechanical specifications</b>                |       |   |
| Connection type                                 |       | flexible leads PVC , 510 mm , twisted                     |
| Connection assembly                             |       | Molex socket housing 51021-0300<br>Molex crimp 50058-8000 |
| Core cross section                              |       | 0.08 mm <sup>2</sup>                                      |
| Housing material                                |       | PA  |
| Sensing face                                    |       | PA  |
| Degree of protection                            |       | IP67  |
| Dimensions                                      |       |   |
| Height  |       | 4.7 mm  |
| Width   |       | 8 mm  |
| Length  |       | 16 mm   |

## Connection

E2-Y



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