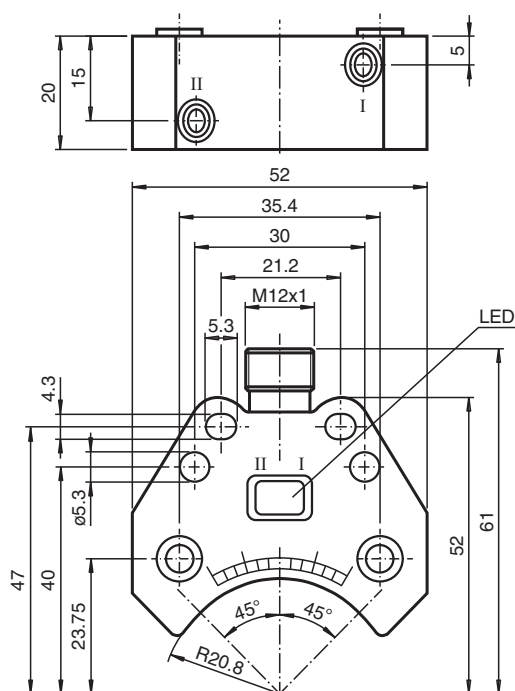


- Direct mounting on standard actuators



## Dimensions



## Technical Data

## General specifications

|                                  |                |                          |
|----------------------------------|----------------|--------------------------|
| Switching function               |                | 2 x normally closed (NC) |
| Output type                      |                | PNP                      |
| Rated operating distance         | s <sub>n</sub> | 3 mm                     |
| Installation                     |                | flush mountable          |
| Output polarity                  |                | DC                       |
| Assured operating distance       | s <sub>a</sub> | 0 ... 2.43 mm            |
| Actual operating distance        | s <sub>r</sub> | 2.7 ... 3.3 mm typ.      |
| Reduction factor r <sub>AI</sub> |                | 0.5                      |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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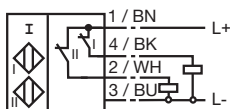


## Technical Data

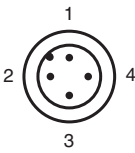
|                                                 |       |                                                                                             |
|-------------------------------------------------|-------|---------------------------------------------------------------------------------------------|
| Reduction factor $r_{Cu}$                       |       | 0.4                                                                                         |
| Reduction factor $r_{304}$                      |       | 1                                                                                           |
| Reduction factor $r_{Si37}$                     |       | 1.1                                                                                         |
| Output type                                     |       | 3-wire                                                                                      |
| <b>Nominal ratings</b>                          |       |                                                                                             |
| Operating voltage                               | $U_B$ | 10 ... 30 V                                                                                 |
| Switching frequency                             | $f$   | 0 ... 500 Hz                                                                                |
| Hysteresis                                      | $H$   | typ. 5 %                                                                                    |
| Reverse polarity protection                     |       | all connections                                                                             |
| Short-circuit protection                        |       | pulsing                                                                                     |
| Voltage drop                                    | $U_d$ | $\leq 3$ V                                                                                  |
| Operating current                               | $I_L$ | 0 ... 200 mA                                                                                |
| Off-state current                               | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C                                                      |
| No-load supply current                          | $I_0$ | $\leq 35$ mA                                                                                |
| Time delay before availability                  | $t_v$ | $\leq 500$ ms                                                                               |
| Operating voltage indicator                     |       | LED, green                                                                                  |
| Switching state indicator                       |       | LED, yellow                                                                                 |
| <b>Compliance with standards and directives</b> |       |                                                                                             |
| Standard conformity                             |       |                                                                                             |
| Standards                                       |       | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| <b>Approvals and certificates</b>               |       |                                                                                             |
| UL approval                                     |       | cULus Listed, General Purpose                                                               |
| CSA approval                                    |       | cCSAus Listed, General Purpose                                                              |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq 36$ V                          |
| <b>Ambient conditions</b>                       |       |                                                                                             |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                                              |
| Storage temperature                             |       | -40 ... 85 °C (-40 ... 185 °F)                                                              |
| <b>Mechanical specifications</b>                |       |                                                                                             |
| Connection type                                 |       | Connector plug M12 x 1 , 4-pin                                                              |
| Housing material                                |       | PBT                                                                                         |
| Sensing face                                    |       | PBT                                                                                         |
| Degree of protection                            |       | IP67                                                                                        |
| Tightening torque, fastening screws             |       | M5 x 25 : 2.7 Nm                                                                            |

## Connection

E9



Connection Assignment



Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

Accessories

|                                                                                   |                    |                                       |
|-----------------------------------------------------------------------------------|--------------------|---------------------------------------|
|  | <b>V1-W-2M-PUR</b> | Female cordset, M12, 4-pin, PUR cable |
|  | <b>V1-G-2M-PUR</b> | Female cordset, M12, 4-pin, PUR cable |

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