

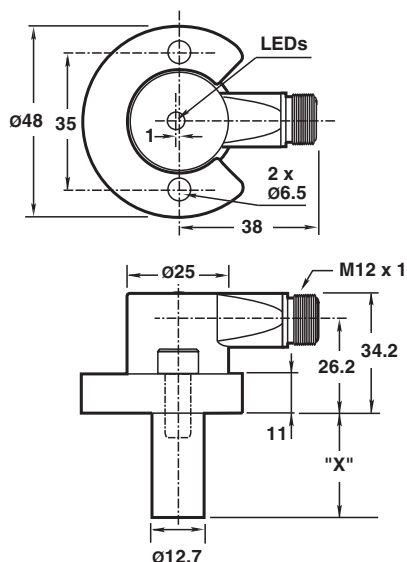
## Inductive sensor NJ2-D-E02-1.025-V1

- 4-wire DC
- Weld Immune
- Sensing range 2 mm
- 3000 psi rating

Cylinder Position Switch



### Dimensions



### Technical Data

#### General specifications

|                            |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | PNP/NPN            |
| Rated operating distance   | $s_n$ | 2 mm               |
| Installation               |       | flush              |
| Output polarity            |       | DC                 |
| Assured operating distance | $s_a$ | 0 ... 1.62 mm      |
| Reduction factor $r_{AI}$  |       | 0.4                |
| Reduction factor $r_{304}$ |       | 0.85               |
| Output type                |       | 4-wire             |

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

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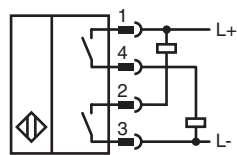
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**PEPPERL+FUCHS**

Technical Data

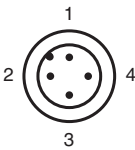
|                                   |       |                                  |
|-----------------------------------|-------|----------------------------------|
| <b>Nominal ratings</b>            |       |                                  |
| Operating voltage                 | $U_B$ | 10 ... 30 V DC                   |
| Switching frequency               | $f$   | 30 Hz                            |
| Hysteresis                        | $H$   | 10 ... 20 % typ. 15 %            |
| Reverse polarity protection       |       | yes                              |
| Short-circuit protection          |       | yes                              |
| Voltage drop                      | $U_d$ | $\leq 2$ V DC                    |
| Operating current                 | $I_L$ | $\leq 200$ mA                    |
| Off-state current                 | $I_r$ | $\leq 100$ $\mu$ A               |
| No-load supply current            | $I_0$ | $\leq 35$ mA                     |
| Mag. Field strength, AC fields    |       | 250 mT                           |
| Mag. Field strength, DC fields    |       | 100 mT                           |
| <b>Limit data</b>                 |       |                                  |
| Operating pressure dynamically    |       | 3000 psi                         |
| <b>Indicators/operating means</b> |       |                                  |
| LED green                         |       | Power on                         |
| LED yellow                        |       | Output status                    |
| <b>Standard conformity</b>        |       |                                  |
| Standards                         |       | EN 60947-5-2                     |
| <b>Approvals and certificates</b> |       |                                  |
| UL approval                       |       | cULus Listed, General Purpose    |
| <b>Ambient conditions</b>         |       |                                  |
| Ambient temperature               |       | -25 ... 70 °C (-13 ... 158 °F)   |
| <b>Mechanical specifications</b>  |       |                                  |
| Connection type                   |       | Connector plug                   |
| Degree of protection              |       | IP67                             |
| Material                          |       | Housing: zinc<br>Probe: aluminum |
| Connector                         |       |                                  |
| Threading                         |       | M12 x 1                          |
| Number of pins                    |       | 4                                |
| Mass                              |       | 186 g                            |
| Note                              |       | X = 1.025 in (26 mm)             |

Connection



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Connection Assignment

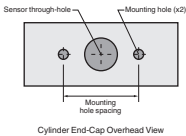


Wire colors in accordance with EN 60947-5-2

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

Additional Information

**NPT Type Mounting Holes:**  
1000 and 3000 psi NPT Types:  
Mounting hole screw thread shall be 1/4" - 20.  
Minimum thread engagement depth is 0.250" (6.35 mm)  
Hole spacing is 35 mm center to center.



**Mounting Screws:**  
Standard 1000 and 3000 psi models use two, self-locking 1/4" - 20 socket head cap screws (provided).  
Recommended tightening torque: 150 in lb (16.95 N-m).

 **Important:** When using spacers, make certain to maintain the 0.250" (6.35 mm) minimum mounting screw thread engagement.

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