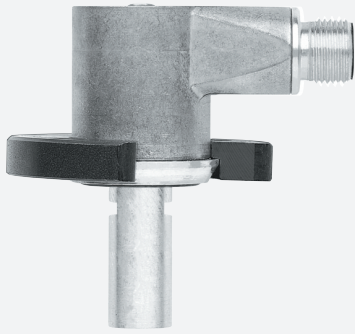




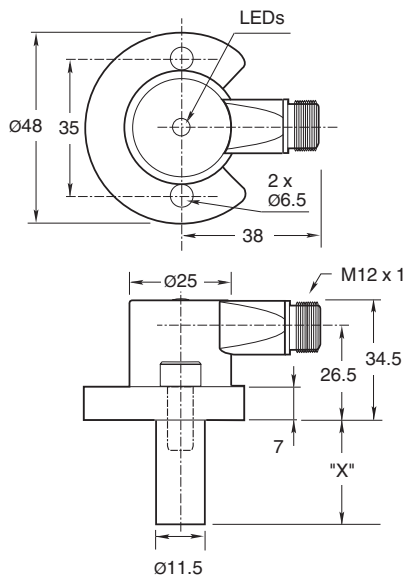
## Inductive sensor NJ2-F-E02-2.062-V1

- 4-wire DC
- Weld Immune
- Sensing range 2 mm
- 1000 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             |

#### Nominal ratings

|                             |       |                       |
|-----------------------------|-------|-----------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V DC        |
| Switching frequency         | $f$   | 0 ... 30 Hz           |
| Hysteresis                  | $H$   | 10 ... 20 % typ. 15 % |
| Reverse polarity protection |       | yes                   |
| Short-circuit protection    |       | yes                   |

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

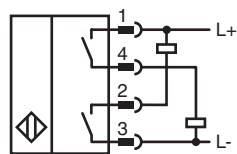
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

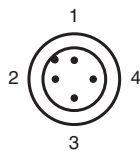
Technical Data

|                                   |       |                                  |
|-----------------------------------|-------|----------------------------------|
| Voltage drop                      | $U_d$ | $\leq 2 \text{ V DC}$            |
| Operating current                 | $I_L$ | $\leq 200 \text{ mA}$            |
| Off-state current                 | $I_r$ | $\leq 100 \mu\text{A}$           |
| No-load supply current            | $I_0$ | $\leq 35 \text{ mA}$             |
| Mag. Field strength, AC fields    |       | 250 mT                           |
| Mag. Field strength, DC fields    |       | 100 mT                           |
| <b>Limit data</b>                 |       |                                  |
| Operating pressure dynamically    |       | 1000 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 |
| <b>Connector</b>                  |       |                                  |
| Threading                         |       | M12 x 1                          |
| Number of pins                    |       | 4                                |
| Mass                              |       | 161 g                            |
| Note                              |       | X = 2.062 in (52.4 mm)           |

Connection



Connection Assignment



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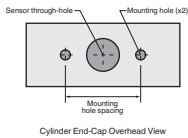
Connection Assignment

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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