



Model Number

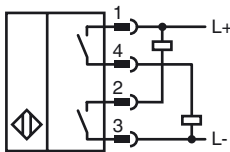
NJ2-D-E02-2.875-V1

Cylinder Position Switch

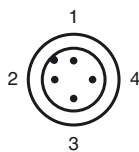
Features

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

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

V1-G-2M-PVC

Cable socket, M12, 4-pin, PVC cable

V1-W-2M-PVC

Cable socket, M12, 4-pin, PVC cable

SPACER 0.160 TO 0.375 : X.XXX"

Spacer for cylinder switches

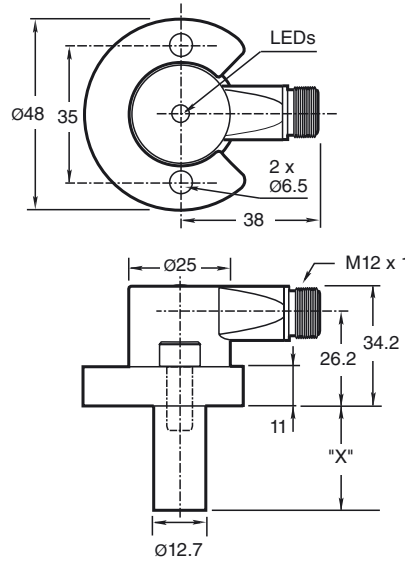
SPACER 0.380 TO 0.875 : X.XXX"

Spacer for cylinder switches

SPACER 0.880 TO 1.750 : X.XXX"

Spacer for cylinder switches

Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|---------------|
| Switching element function | | NPN & PNP, NO |
| Rated operating distance | s_n | 2 mm |
| Installation | | flush |
| Output polarity | | DC NO |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Reduction factor r_{A1} | | 0.4 |
| Reduction factor r_{304} | | 0.85 |

Nominal ratings

| | | |
|--------------------------------|-------|---------------------|
| 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 | ≤ 2 V DC |
| Operating current | I_L | ≤ 200 mA |
| Off-state current | I_r | ≤ 100 μ A |
| No-load supply current | I_0 | ≤ 35 mA |
| Mag. Field strength, AC fields | | 250 mT |
| Mag. Field strength, DC fields | | 100 mT |

Limit data

| | | |
|--------------------------------|--|----------|
| Operating pressure dynamically | | 3000 psi |
|--------------------------------|--|----------|

Indicators/operating means

| | |
|------------|---------------|
| LED green | Power on |
| LED yellow | Output status |

Standard conformity

| | |
|-----------|--------------|
| Standards | EN 60947-5-2 |
|-----------|--------------|

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--------------------------------|

Mechanical specifications

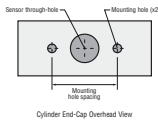
| | |
|-------------------|----------------------------------|
| Connection type | Device connector M12 x 1 , 4-pin |
| Protection degree | IP67 |
| Material | Housing: zinc Probe: aluminum |
| Note | X = 2.875 in (73 mm) |

Approvals and certificates

| | |
|--------------|--------------------------------|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |

Release date: 2013-01-21 09:50 Date of issue: 2013-01-21 904471_eng.xml

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.