



**Model Number**

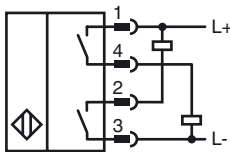
**NJ2-D-E02-1.875-V1**

Cylinder Position Switch

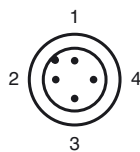
**Features**

- 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

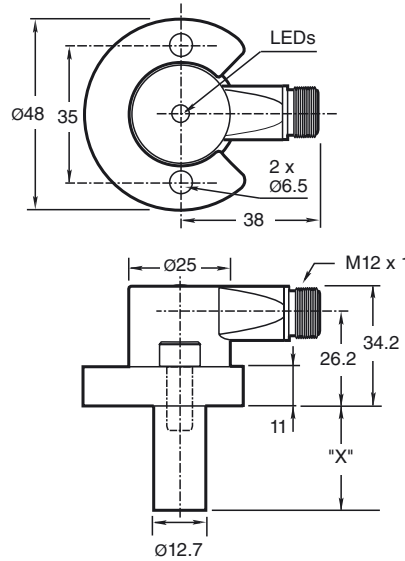
**SPACER 0.380 TO 0.875 : X.XXX"**

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	$U_d$	$\leq 2$ 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

**Limit data**

Operating pressure dynamically	3000 psi
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**Indicators/operating means**

LED green	Power on
LED yellow	Output status

**Standard conformity**

Standards	EN 60947-5-2
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**Ambient conditions**

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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**Mechanical specifications**

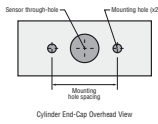
Connection type	Device connector M12 x 1 , 4-pin
Protection degree	IP67
Material	Housing: zinc Probe: aluminum Steel flange
Note	X = 1.875 in (47.6 mm)

**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 904466\_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.