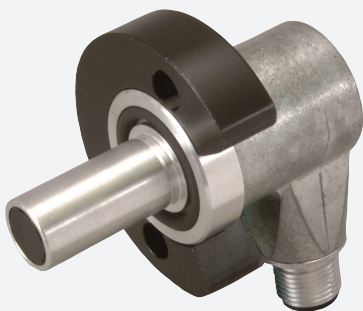




Inductive sensor

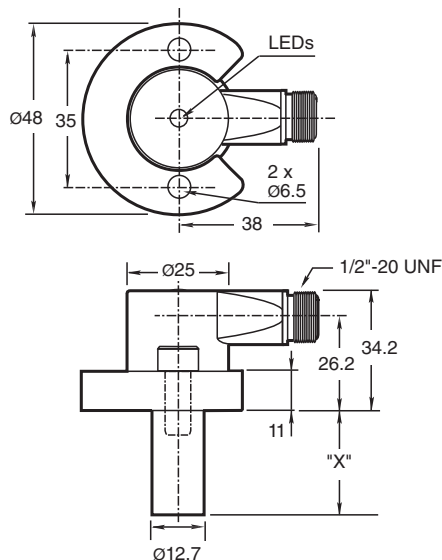
NJ2-D-US-2.062-V12

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

Cylinder Position Switch



Dimensions



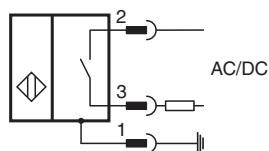
Technical Data

General specifications			
Switching function		Normally open (NO)	
Output type		Two-wire	
Rated operating distance	S _n	2 mm	
Installation		flush	
Output polarity		AC/DC	
Assured operating distance	S _a	0 ... 1.62 mm	

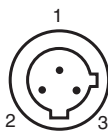
Technical Data

Reduction factor r_{Al}		0.4
Reduction factor r_{304}		0.85
Nominal ratings		
Operating voltage	U_B	20 ... 250 V AC/20 ... 300 V DC
Switching frequency	f	0 ... 20 Hz
Hysteresis	H	10 ... 20 % 15 typ.
Reverse polarity protection		yes
Short-circuit protection		yes
Voltage drop	U_d	≤ 7 V
Momentary current (20 ms, 0.1 Hz)		max. 3 A
Operating current	I_L	8 ... 300 mA
Off-state current	I_r	< 1.7 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 red		Output status
LED red/green		Short circuit/overload indication
Standard conformity		
Standards		EN 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector 1/2"-20 UN , 3-pin
Degree of protection		IP67
Material		Housing: zinc Probe: aluminum
Note		X = 2.062 in (52.4 mm)

Connection



Connection Assignment



Wire colors

1	GN	(green)
2	RD/BK	(red/black)
3	RD/WH	(red/white)

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.

Diagram illustrating the NPT Type Mounting Holes. It shows a cross-section of the sensor body with two mounting holes. The sensor through hole is on the left, and the mounting hole (Ø) is on the right. The mounting hole spacing is indicated as 35 mm center to center.

Accessories

SPACER 0.160 TO 0.375 : X.XXX"	Spacer for cylinder switches
SPACER 0.380 TO 0.875 : X.XXX"	Spacer for cylinder switches