

Inductive sensor

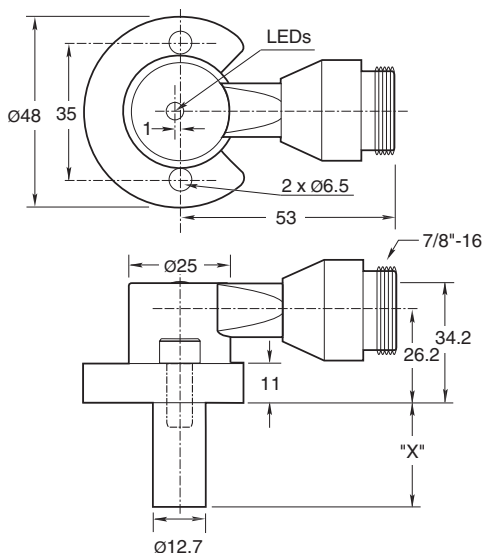
NJ2-D-US-2.062-V93

- 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
Reduction factor r_{AI}	0.4	
Reduction factor r_{304}	0.85	
Output type	2-wire	

Nominal ratings

Operating voltage	U_B	20 ... 250 V AC/20 ... 300 V DC
-------------------	-------	---------------------------------

Release date: 2020-05-21 Date of issue: 2020-05-21 Filename: 906598_eng.pdf

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

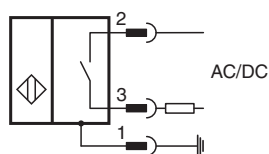
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

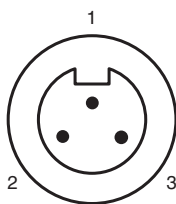
Technical Data

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 plug 7/8 inch-16 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	BK	(black)
3	WH	(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 top view of the cylinder end cap with two mounting holes. Labels indicate: 'Sensor through hole', 'Mounting hole (Ø)', 'Mounting hole spacing', and 'Cylinder End Cap Overhead View'.

Accessories

	SPACER 0.160 TO 0.375 : Spacer for cylinder switches X.XXX"
	SPACER 0.380 TO 0.875 : Spacer for cylinder switches X.XXX"
	SPACER 0.880 TO 1.750 : Spacer for cylinder switches X.XXX"

Release date: 2020-05-21 Date of issue: 2020-05-21 Filename: 906598_eng.pdf