



Inductive sensor

NJ2-D-US-1.250-V93

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

Cylinder Position Switch



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

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
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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
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Approvals and certificates

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

Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 905109_eng.pdf

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

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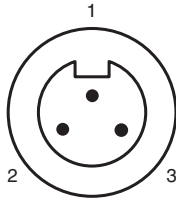
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Technical Data

Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	Connector 7/8"-16 UN , 3-pin
Degree of protection	IP67
Material	Housing: zinc Probe: aluminum
Note	X = 1.250 in (31.8 mm)

Connection Assignment



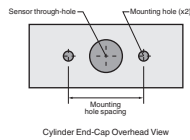
Wire colors

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.

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Accessories

SPACER 0.160 TO 0.375	: Spacer for cylinder switches X.XXX"
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Accessories

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

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