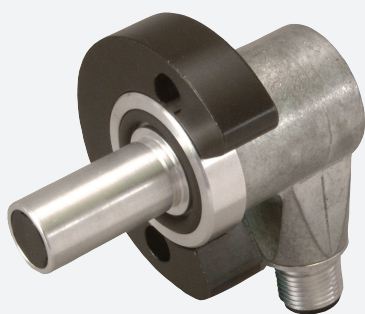




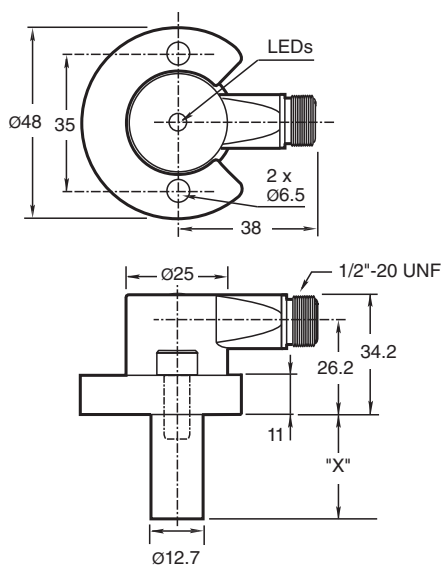
Inductive sensor NJ2-D-US-1.025-V12

- 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

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

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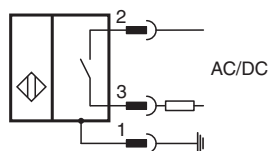
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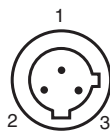
Technical Data

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 = 1.025 in (26 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 labels: Sensor through hole, Mounting hole (Ø), Mounting hole spacing, 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"

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