

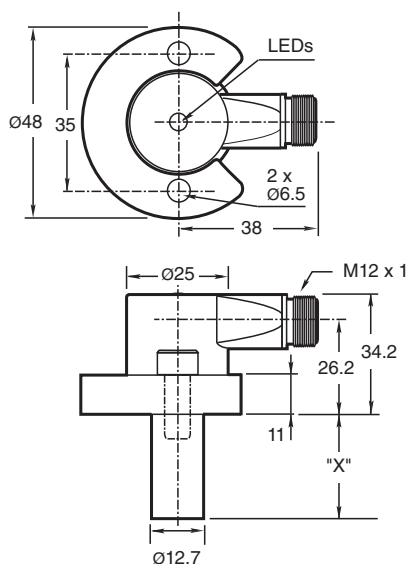
Inductive sensor NJ2-D-E02-2.875-V1

- 4-wire 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		PNP/NPN
Rated operating distance	S_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	S_a	0 ... 1.62 mm
Reduction factor r_{AI}		0.4
Reduction factor r_{304}		0.85

Nominal ratings

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

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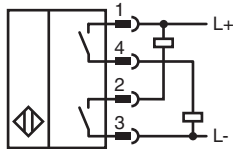
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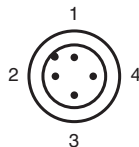
Technical Data

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	≤ 2 V DC
Operating current	I_L	≤ 200 mA
Off-state current	I_r	≤ 100 μ A
No-load supply current	I_0	≤ 35 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 yellow		Output status
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 M12 x 1 , 4-pin
Degree of protection		IP67
Material		Housing: zinc Probe: aluminum
Note		X = 2.875 in (73 mm)

Connection



Connection Assignment



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Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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

	V1-G-2M-PVC	Female cordset, M12, 4-pin, PVC cable
	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"	

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