

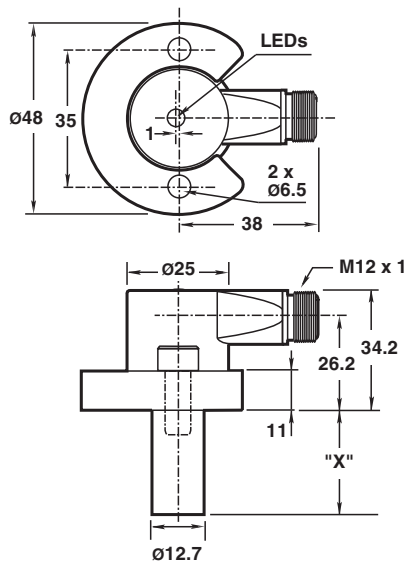
Inductive sensor NJ2-D-E02-1.250-V1

- 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

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

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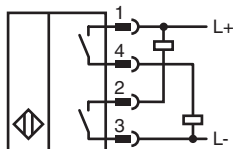
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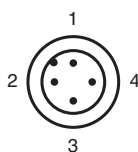
Technical Data

Output type		4-wire
Nominal ratings		
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 μA
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 plug M12 x 1 , 4-pin
Degree of protection		IP67
Material		Housing: zinc Probe: aluminum
Note		X = 1.250 in (31.8 mm)

Connection



Connection Assignment



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 mounting plate with two holes. The 'Sensor through hole' is the larger central hole. The 'Mounting hole (Ø)' is the smaller hole. The 'Mounting hole spacing' is the distance between the centers of the two mounting holes. The 'Cylinder End Cap Overhead View' shows the mounting holes in the context of the cylinder end cap.

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"	

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