

Inductive sensor

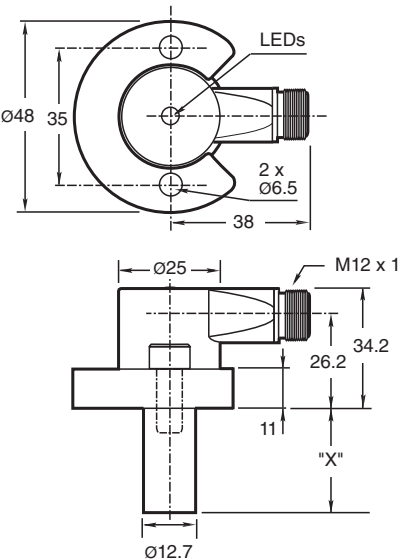
NJ2-D-E02-2.875-V1

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

Cylinder Position Switch



Dimensions



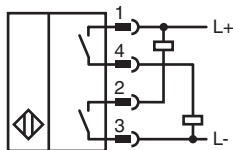
Technical Data

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		

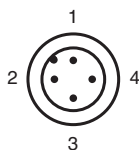
Technical Data

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



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 relation to 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"
	SPACER 0.880 TO 1.750 :	Spacer for cylinder switches X.XXX"

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