

Inductive sensor

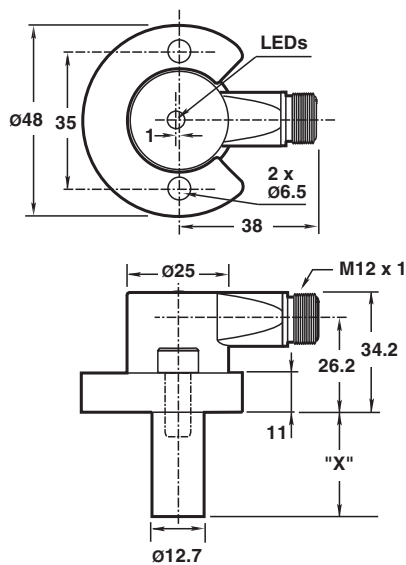
NJ2-D-E02-1.875-V1

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

Cylinder Position Switch



Dimensions



Technical Data

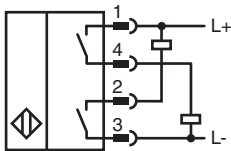
General specifications

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	

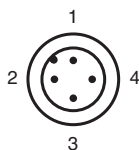
Technical Data

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 Steel flange	
Note		X = 1.875 in (47.6 mm)	

Connection



Connection Assignment



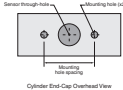
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Wire colors in accordance with EN 60947-5-2

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.

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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