



Inductive sensor

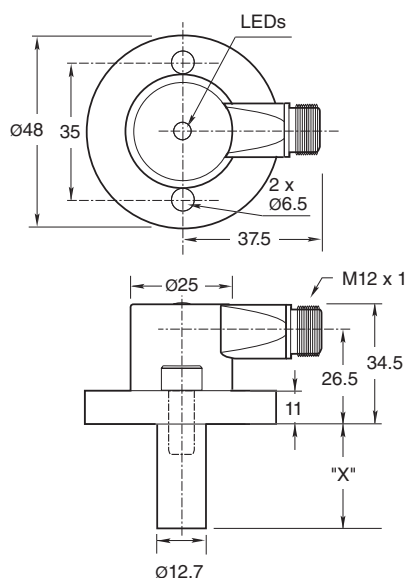
NJ2-FD1-E0-1.875-V1-T-Y904488

- Weld Immune
- Sensing range 2 mm
- 3-wire DC
- 5000 psi rating
- High temperature model

Cylinder Position Switch



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		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

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	≤ 250 Hz
Hysteresis	H	10 ... 20 % 15 typ.
Short-circuit protection		yes

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

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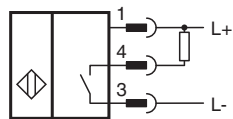
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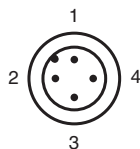
Technical Data

Voltage drop	U_d	$\leq 2\text{ V}$
Operating current	I_L	$\leq 100\text{ mA}$
Off-state current	I_r	$< 100\text{ }\mu\text{A}$
No-load supply current	I_0	$\leq 35\text{ mA}$
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		100 mT
Limit data		
Operating pressure dynamically		5000 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 ... 100 °C (-13 ... 212 °F) on probe -25 ... 85 °C (-13 ... 185 °F) on sensor
Mechanical specifications		
Degree of protection		IP67
Material		Housing: zinc Probe: stainless steel Flange: steel
Note		X = 1.875 in (47.6 mm)

Connection



Connection Assignment



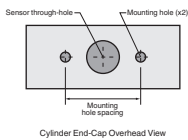
Wire colors in accordance with EN 60947-5-2

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

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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-OR2M-POC	Female cordset single-ended M12 A-coded 4-pin, TPE cable welding-bead resistant orange
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