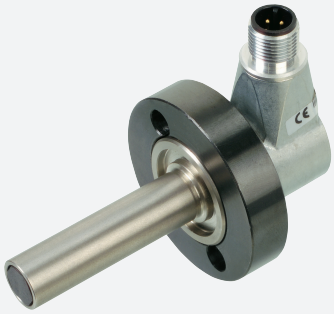
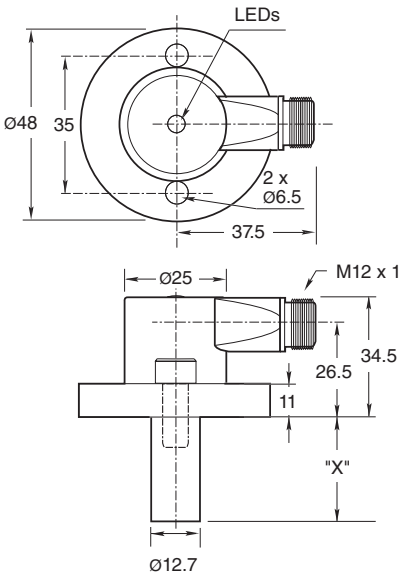
Inductive sensor

NJ2-FD1-E2-1.875-V1-T



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

Dimensions



Technical Data

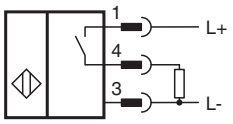
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{304}		0.85
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	≤ 250 Hz
Hysteresis	H	10 ... 20 % 15 typ.
Short-circuit protection		yes

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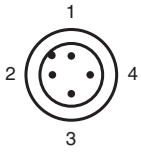
Technical Data

Voltage drop	U_d	≤ 2 V
Operating current	I_L	≤ 100 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		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



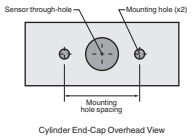
Wire colors in accordance with EN 60947-5-2

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.



Cylinder End-Cap Overhead View

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-W-2M-PUR**	Female cordset, M12, 4-pin, PUR cable
	**V1-G-2M-PUR**	Female cordset, M12, 4-pin, PUR cable

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