

Inductive sensor

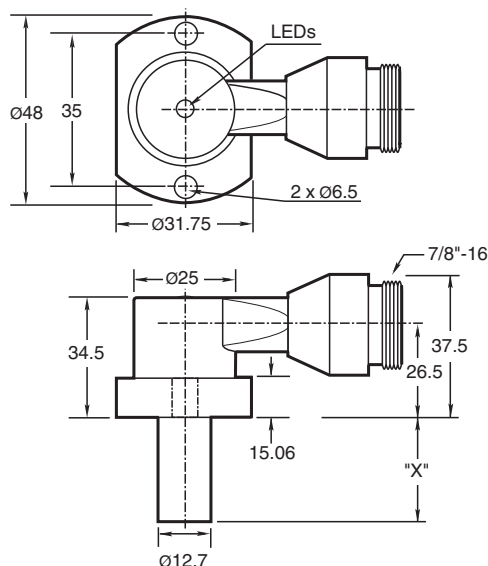
NJ1.5-PD-US-1.250-V93

- 2-wire AC/DC
- Weld Immune
- Sensing range 1.5 mm
- 3000 psi rating

Proximity sensor



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		AC/DC
Assured operating distance	s_a	0 ... 1.21 mm
Reduction factor r_{AI}		0.4
Reduction factor r_{304}		0.85
Output type		2-wire

Nominal ratings

Switching frequency	f	0 ... 20 Hz
Hysteresis	H	10 ... 20 % typ. 15 %
Reverse polarity protection		yes
Short-circuit protection		yes
Voltage drop	U_d	≤ 7 V

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

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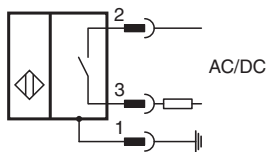
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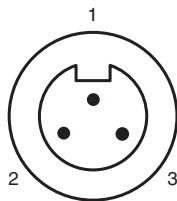
Technical Data

Momentary current (20 ms, 0.1 Hz)		max. 3 A
Rated operating current	I _e	8 ... 300 mA AC/DC
Off-state current	I _r	< 1.7 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 red		Output status
LED red/green		Short circuit/overload indication
Electrical specifications		
Rated operating voltage	U _e	20 ... 250 V AC/DC
Standard conformity		
Standards		EN 60947-5-2
Approvals and certificates		
UL approval		cULus Listed Load Type: General Purpose Enclosure Type Rating: Type 1 Supply/Switching Voltage: 250 V AC/DC Output Switching Current: 300 mA
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug
Degree of protection		IP67
Material		Housing: zinc Probe: aluminum
Connector		
Threading		7/8 inch-16 UN
Number of pins		3
Mass		209 g
Note		X = 1.250 in (31.8 mm)

Connection Assignment



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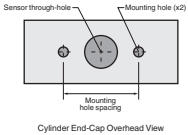
Connection Assignment

Wire colors

1	GN	(green)
2	BK	(black)
3	WH	(white)

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.