

Inductive sensor

NJ2-D-US-2.062-V93

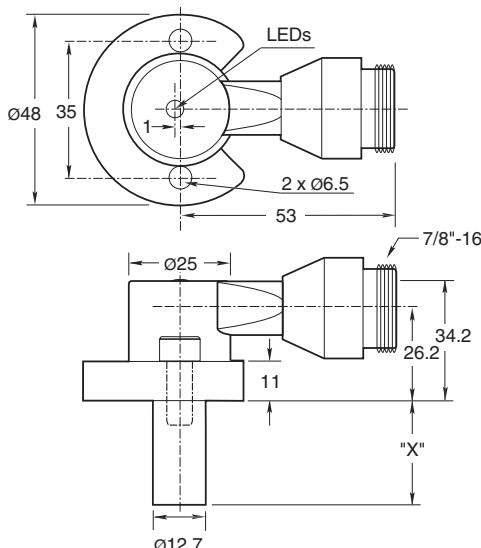


- 2-wire AC/DC
- Weld Immune
- Sensing range 2 mm
- 3000 psi rating

Cylinder Position Switch



Dimensions



Technical Data

Release date: 2024-10-17 Date of issue: 2024-10-17 Filename: 906598_eng.pdf

General specifications

Switching function	Normally open (NO)	
Output type	Two-wire	
Rated operating distance	s_n	2 mm
Installation	flush	
Output polarity	AC/DC	
Assured operating distance	s_a	0 ... 1.62 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 %

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

Pepperl+Fuchs Group
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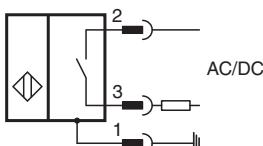
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Technical Data

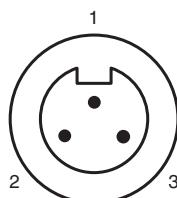
Reverse polarity protection	yes	
Short-circuit protection	yes	
Voltage drop	U_d	$\leq 7 \text{ V}$
Momentary current (20 ms, 0.1 Hz)	max. 3 A	
Rated operating current	I_e	8 ... 300 mA AC/DC
Off-state current	I_r	< 1.7 mA
Mag. Field strength, AC fields	250 mT	
Mag. Field strength, DC fields	100 mT	
Limit 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, General Purpose	
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	184 g	
Note	X = 2.062 in (52.4 mm)	

Connection



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Connection Assignment



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Connection Assignment

Wire colors

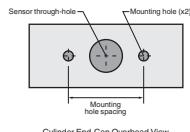
1	GN	(green)
2	BK	(black)
3	WH	(white)

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.