

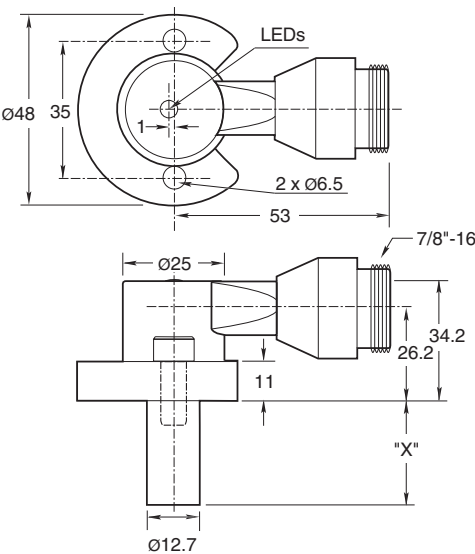
Inductive sensor
NJ2-D-US-1.750-V93

- 2-wire AC/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		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 _{Al}		0.4
Reduction factor r ₃₀₄		0.85
Output type		2-wire
Nominal ratings		
Operating voltage	U _B	20 ... 250 V AC/20 ... 300 V DC

Technical Data

Switching frequency	f	0 ... 20 Hz
Hysteresis	H	10 ... 20 % 15 typ.
Reverse polarity protection		yes
Short-circuit protection		yes
Voltage drop	U _d	≤ 7 V
Momentary current (20 ms, 0.1 Hz)		max. 3 A
Operating current	I _L	8 ... 300 mA
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
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Indicators/operating means

LED green	Power on
LED red	Output status
LED red/green	Short circuit/overload indication

Standard conformity

Standards	EN 60947-5-2
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Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

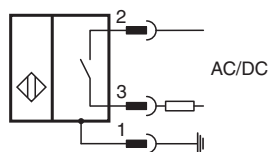
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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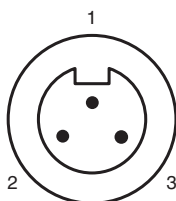
Mechanical specifications

Connection type	Connector plug 7/8 inch-16 UN , 3-pin
Degree of protection	IP67
Material	Housing: zinc Probe: aluminum
Note	X = 1.750 in (44.5 mm)

Connection



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.

Diagram illustrating the NPT Type Mounting Holes. It shows a top view of the cylinder end cap with two mounting holes. Labels indicate: 'Sensor through hole', 'Mounting hole (Ø)', 'Mounting hole spacing', and 'Cylinder End Cap Overhead View'.

Accessories

	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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