

Model Number  
EX649A71

# RECIPROCATING MACHINERY PROTECTOR

Revision: F  
ECN #: 49747

**Performance**

	ENGLISH	SI	
Output	4-20 mA	4-20 mA	
Machinery RPM Range	240 to 10,000 cpm	4 to 166 Hz	[1][2]
Time Window	0.1 to 4.0 sec	0.1 to 4.0 sec	[2]
Weighting Factor	0.2 to 16 mA	0.2 to 16 mA	[2]
Trending Range Current	4 to 20 mA	4 to 20 mA	[2]
Threshold Level	2 to 50 g	2 to 50 g	

**Environmental**

Temperature Range	-40 to 212 °F	-40 to 100 °C
Storage Temperature Range	-40 to 257 °F	-40 to 125 °C

**Electrical**

Excitation Voltage	15 to 30 VDC	15 to 30 VDC
Load Resistance	50(Vs-15) Ohm	50(Vs-15) Ohm
Electrical Isolation	> 10^8 Ohm	> 10^8 Ohm

**Physical**

Size - Height	5.8 in	147 mm
Size - Width	3.85 in	98 mm
Weight	1.1 lb	500 gm
Mounting Thread	1/4 NPT	1/4 NPT
Sensing Element	Piezoelectric Accelerometer	Piezoelectric Accelerometer
Housing Material	Stainless Steel	Stainless Steel
Sealing	Welded Hermetic	Welded Hermetic
Electrical Connection Position	Top	Top
Electrical Connections (Pin A)	4-20 mA Pos (+)	4-20 mA Pos (+)
Electrical Connections (Pin B)	4-20 mA Neg (-)	4-20 mA Neg (-)
Overload Limit (Shock)	5,000 g pk	49,050 m/s <sup>2</sup> pk
Screw Terminal Wire Size	12-24 AWG	3.0 - .2mm <sup>2</sup>
Conduit Housing Thread	1" NPT Female	Not Applicable

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**

- [1] 1Hz = 60 cpm (cycles per minute).
- [2] USB Programmable
- [3] See PCB Declaration of Conformance PS053 or PS070 for details.



All specifications are at room temperature unless otherwise specified.  
In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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Entered: lk	Engineer: LAB	Sales: MC	Approved: NJF	Spec Number:
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