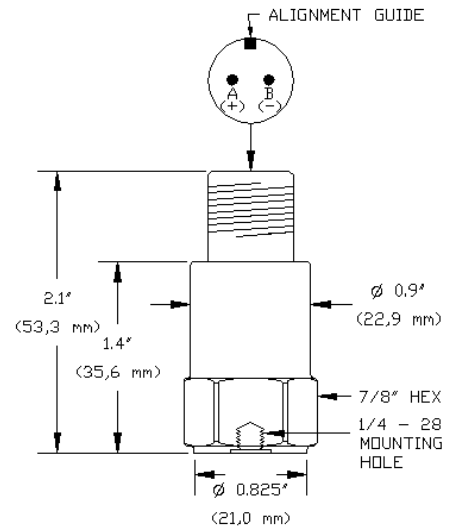


RN-AC150-1A

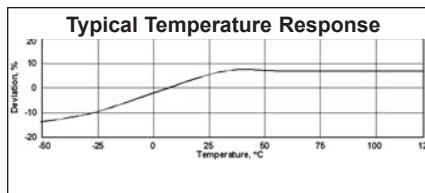
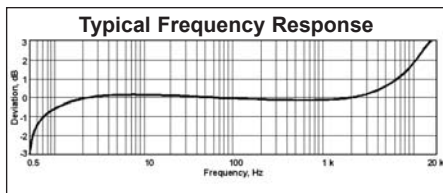
Low Cost Accelerometer, Top Connector, 100 mV/g

Part Number	RN-AC150-1A	RN-M/AC150-1A
Performance Specifications	English	Metric
Sensitivity $\pm 20\%$	100 mV/g	100 mV/g
Frequency Response		
± 3 dB	100-600,000 CPM	1,7-10000 Hz
$\pm 10\%$	200-360,000 CPM	3,4-6000 Hz
Dynamic Range	± 50 g peak	± 50 g peak
Electrical		
Settling Time (Turn on Time)		
@ Room Temp (68°F/20°C)	2.5 Seconds	2,5 Seconds
@ Max Temp (250°F/121°C)	10 Seconds	10 Seconds
Power Requirement		
Voltage Source	18-30 VDC	18-30 VDC
Constant Current Excitation	2-10 mA	2-10 mA
Electrical Noise (Typical)		
Broadband	2.5 Hz to 25 kHz	100 $\mu\text{g}/\sqrt{\text{Hz}}$
Spectral	10 Hz	70 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz	30 $\mu\text{g}/\sqrt{\text{Hz}}$
	1000 Hz	3 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, Max	<100 ohm	<100 ohm
Bias Output Voltage	10-14 VDC	10-14 VDC
Electrical Case Isolation	$>10^8$ ohm	$>10^8$ ohm
Recommended Cable Connectors	A,B,C,D,M,N	A,B,C,D,M,N
Environmental		
Temperature Range	-58 to 250° F	-50 to 121° C
Vibration Limit	± 50 g	± 50 g
Maximum Shock Protection	5,000 g	5000 g
Electromagnetic Sensitivity	CE Certified	CE Certified
Sealing	Welded, Hermetic	Welded, Hermetic
Physical		
Sensing Element	PZT Ceramic	PZT Ceramic
Sensing Structure	Shear Mode	Shear Mode
Weight	3.2 oz.	90 grams
Case Material	316L Stainless Steel	316L Stainless Steel
Mounting	1/4-28 Tapped Hole	1/4-28 Tapped Hole
Connector	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Mechanical		
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Supplied Accessories		
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	CA10



Optional Mounting Accessories

RN-MH103-1B	Flat Surface Magnetic Mounting Base
RN-MH107-1A / RN-MH107-1B	Quick Disconnect Receptacle / Base
RN-MH114-3A / RN-MH115-2A	Multi Purpose Magnetic Mounting Base
RN-MH117-3A / RN-MH117-3B	Accelerometer Installation Tool Kit
RN-MH119 Series	Probe Tips
RN-MH130-1A	Adhesive Mounting Pad



Common Applications

Industries Served

- Automotive
- Pharmaceutical
- Pulp and Paper
- Wastewater Treatment
- Manufacturing
- Power Generation
- Steel

Typical Applications

- Air Compressors
- Conveyers
- Dryer Sections <250° F
- Fourdriniers
- Motors
- Presses and Stamping
- Roll and Process Equipment
- Air Handlers
- Cooling Towers
- Fans
- Gear Boxes
- Press Sections
- Pumps
- Spindles

Measurement Type

- Permanent Mount
- Portable



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