

MA153-1A Series

Low Cost, Low Frequency, High Voltage Isolated Molded Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



Product Features

10 kV DC (7 kV AC) Electrical Isolation between the base and internal electronics

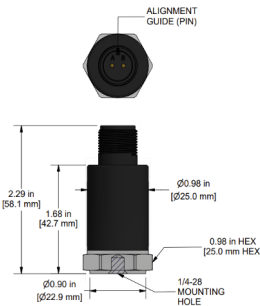
Stainless Steel Base & Connector

- ▶ For Use With CTC Grounded Connectors for Added Noise Protection: A2AG or A2NG

MA153-1A

2 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MA153-1A	M/ or M8/ MA153-1A	Environmental		
Sensitivity (±15%)	500 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	0.1 Hz - 6 kHz	6 - 360,000 CPM	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 10 g, peak		Electromagnetic Sensitivity	CE	
Electrical			Sealing	Molded, Fully Encapsulated	
Settling Time	<2 Seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	3.35 oz	95 grams
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Case Material	Polycarbonate	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	Isolation Voltage: 10 kV DC (7 kV AC)		Resonant Frequency	1,080,000 CPM	18,000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

