

MA102-1A Series

Multipurpose, Molded Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



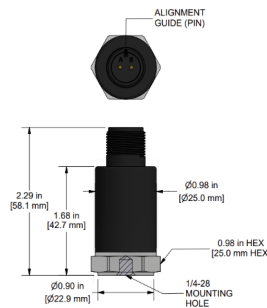
Product Features

Low Cost, Polycarbonate Over-Molded Sensor
316L Stainless Steel Base

- ▶ To avoid stripping connector threads, all molded sensors must pair with plastic threaded connectors (CKP-A2A, B2A, B2N, B2R, A2S)

MA102-1A
2 Pin Connector

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MA102-1A	M/ MA102-1	Environmental		
Sensitivity (±10%)	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-600,000 CPM	2.0-10000 Hz	Electromagnetic Sensitivity	CE PENDING	
Dynamic Range	± 80 g, peak		Sealing	Molded, Fully Encapsulated	
Electrical			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		Physical		
Voltage Source (IEPE)	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	14 µg/√Hz		Weight	3.2 oz	90.7 grams
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Case Material	Polycarbonate	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting	1/4-28	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015 Equivalent Molded	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23,000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response