

FM-ACCL-100 Series Vibration Transducer

2 Pin MS Connector, 100mV/g Industrial Accelerometer

The Forbes Marshall FM-ACCL-100 series transducer is a piezoelectric type acceleration vibration transducer. Generally, the vibration of rotating machinery supported by anti-friction bearings may include high frequencies. Therefore, vibration is normally measured using a piezoelectric pickup with broad frequency characteristics.

The FM-ACCL-100 series comes in many variations from general purpose to high temperature type, upto 140°C. All types can be driven by standard power for the piezoelectric pickup which is standardised to a sensitivity of 100mV/g, thereby facilitating connection to general purpose measuring instruments.

Measurement Type

Permanent mount
Portable

Industries

Power generation
Steel
Cement
Pulp and paper
Waste water treatment
Automotive
Infrastructure
Mining
Dairy / Food / Beverages
Pharmaceutical

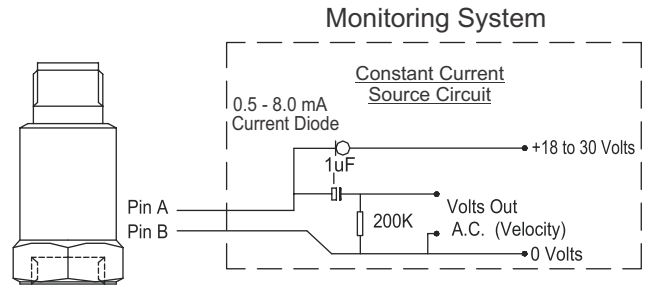


Typical Applications

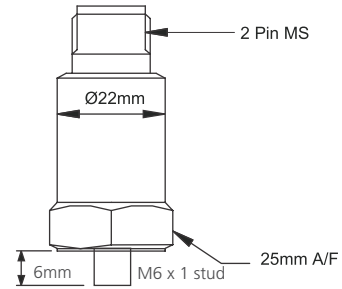
Air compressors
Conveyers
Dryer sections <250°F
Motors
Presses and stamping
Roll and process
Air handlers
Cooling towers
Fans
Gear boxes
Pumps
Spindles

Technical Specification	
Sensitivity	100mV/g ±10% nominal @ 80Hz
Frequency response	2 - 10000 Hz ±5% (-3dB at 0.8 Hz)
Dynamic range	±80g
Electrical	
Voltage source	18-30 VDC
Constant current excitation	0.5 mA to 8mA
Electrical noise	0.1 mg max
Output impedance, max	<100 ohms
Bias output voltage	12VDC
Electrical case isolation	>10 ⁸ ohm
Environmental	
Temperature range	-55 to 140° C
Vibration limit	+50 g
Maximum shock protection	5000 g
Electromagnetic sensitivity	Certified
Sealing	IP67
Physical	
Sensing element	PZT ceramic
Sensing structure	Shear mode
Weight	110 grams
Case material	SS316L Stainless steel
Mounting	1/4-28 tapped hole
Connector	MIL
Mechanical	
Resonant frequency	18 KHz
Mounting torque	8 Nm

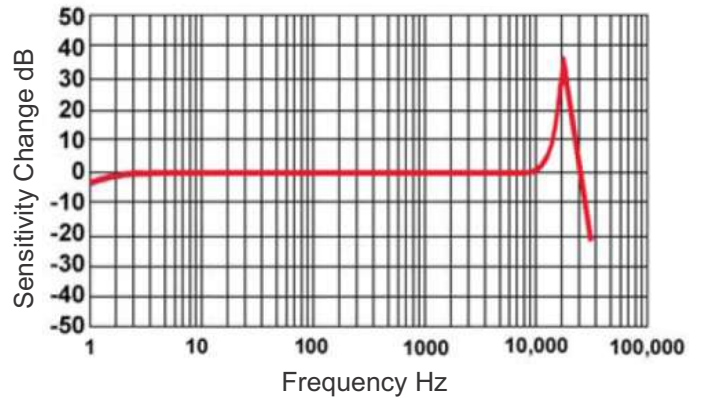
System Connection



Dimensions



Typical Frequency Response



Ordering Information

FM-ACCL-100-1X1

FM-ACCL-100		Sensitivity		Cable Type		Thread Size
	1	100mV/g +/-10%	1	Connector	1	1/4"-28UNF female
			2	5mtr integral cable		
			3	10mtr integral cable		



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Forbes Marshall Steam Systems

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