IMI SENSORS
A PCB PIEZOTRONICS DIV.

SERIES **607M123**

HIGH FREQUENCY ICP® ACCELEROMETER WITH INTEGRAL MAGNET

- High frequency response (13 kHz)
- Precision measurements (±5% sensitivity)
- Low profile design with integral flat rare-earth magnet
- Rugged construction with stainless steel housing and integral armored cable
- Multiple cable length and connector options available

TYPICAL APPLICATIONS

- Motors
- Fans
- Pumps
- Critical rotating machinery
- Fixed speed rotating equipment
- Variable frequency driven machinery

CE

IDEAL FOR DAILY ROUTE-BASED USE AND BALANCING APPLICATIONS

Get high frequency data without compromising low frequency measurements with IMI Sensors Model 607M123/YYYCC. With a frequency response up to 13 kHz, it measures everything from slow-speed rollers to high-speed gearboxes. Its unique integral flat magnet design and low profile side exit make it ideal for use in tight spaces where other routebased sensors won't fit.

The Model 607M123/YYYCC can provide accurate measurement and analysis on machines that would normally require a stud mount. This response can be achieved by mounting the sensor on a flat surface.

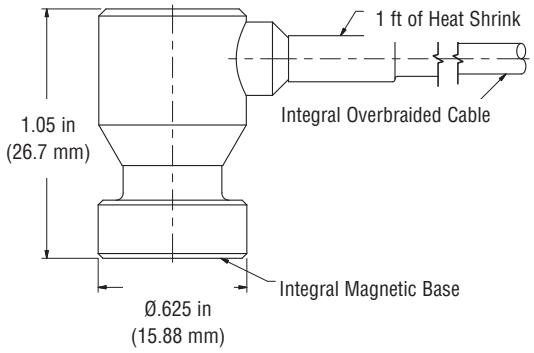
The accelerometer is housed in a rugged stainless steel case with lightweight, flexible armor braided cable that not only protects the cable from sharp objects but makes it easy to use in route measurements. The sensor is shock protected to 5000 g and has a fast settling time (≤2 seconds) for faster data collection.

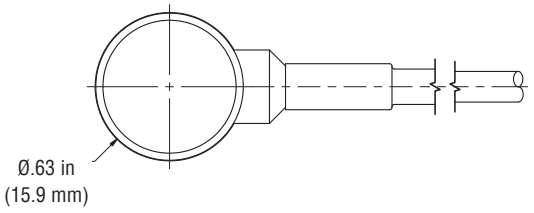
SPECIFICATIONS

Model Number	607M123/YYYCC
Sensitivity (±5 %)	100 mV/g
	10.2 mV/(m/s²)
Measurement Range	±50 g
	±490 m/s²
Frequency Range (± 5%)	1.2 to 4000 Hz
Frequency Range (± 3 dB)	0.5 to 13000 Hz
Resonant Frequency	27 kHz
Broadband Resolution (1 to 10 kHz)	350 µg
	3,434 µm/sec²
Non-linearity	1 %
Transverse Sensitivity	≤ 7 %
Environmental	
Overload Limit (Shock)	5000 g pk
	49050 m/s² pk
Temperature Range	-65 to +250 °F
	-54 to +121 °C
Enclosure Rating	IP67
Electrical	
Settling Time (within 1% of bias)	≤ 2.0 sec
Discharge Time Constant	≥ 0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 µg/√Hz
Electrical Isolation (Case)	>10⁸ ohm
Physical	
Size (Diameter x Height)	0.63 in x 1.0 in
	15.9 mm x 25.4 mm
Weight (Without Cable)	1.18 oz
	33.5 gm
Sensing Element	Ceramic Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Magnet Material	Neodymium
Magnet Pull Strength	15.0 lb
	6.8 kg
Electrical Connector	Integral Cable
Electrical Connector Position	Side
Cable Type	Armored Polyurethane
Cable Length	Configurable
Cable Termination	Configurable

MODEL MATRIX

607M123	YYY	CC
Accelerometer	**Cable Length**	**Connector Type**
	YYY = YYY ft. length	AB = BNC Jack
		AC = BNC Plug
		AD = Pigtail Leads
		AP = 2-Socket with Strain Relief
		BZ = Blunt Cut
		CE = 2-Pin with Strain Relief
		CV = 25-Pin, D-Style
		DP = 7-Pin LEMO
		HM = 6-Pin with Strain Relief
		HX = 5-Pin Turck® for CSI Data Collector
		PV = 5-Pin Turck® for Azima DLI Data Collector





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IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at www.pcb.com. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

IMI-VIB-607M123-0919