



High Frequency ICP[®] Accelerometer with Integral Magnet

Ideal for daily route-based use and balancing applications

Highlights

- High frequency response (13 kHz)
- Precision measurements ($\pm 5\%$ 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

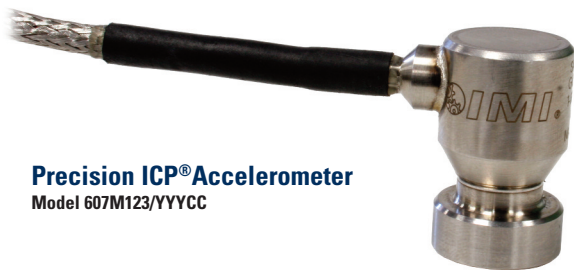
- Motors
- Fans
- Pumps
- Critical rotating machinery
- Fixed speed rotating equipment
- Variable frequency driven machinery



Get high frequency data without compromising low frequency measurements with IMI Sensors Model 607M123/YYCC. 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 route-based sensors won't fit.

The Model 607M123/YYCC 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, spot facing a flat spot on a curved surface or attaching a sensor mounting pad to a machine.

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.



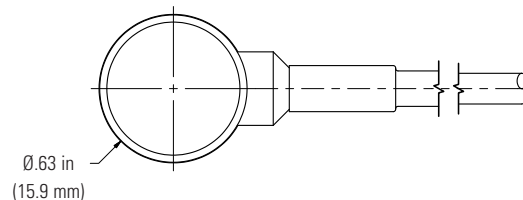
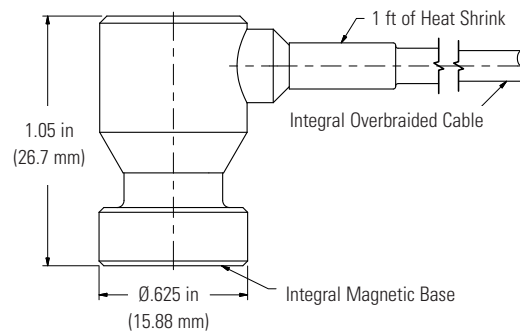
Precision ICP[®] Accelerometer
Model 607M123/YYCC

High Frequency ICP® Accelerometer with Integral Magnet



Technical Specifications	
Model Number	607M123/YYYCC
Sensitivity (±5 %)	100 mV/g
	10.2 mV/(m/s ²)
Measurement Range	± 50 g
	± 490 m/s ²
Frequency Range (± 5%)	1.2 to 4000 Hz
Frequency Range (± 3 dB)	0.5 to 13,000 Hz
Resonant Frequency	27 kHz
Broadband Resolution (1 to 10 kHz)	350 µg
	3,434 µm/sec ²
Non-linearity	1 %
Transverse Sensitivity	≤ 7 %
Environmental	
Overload Limit (Shock)	5,000 g pk
	49,050 m/s ² 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)	>10 ⁹ 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/ Accelerometer	YYY Cable Length	CC 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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ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

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IMI-607M123-1115

Printed in U.S.A.



IMI Sensors designs and manufactures a full line of accelerometers, sensors, vibration switches, vibration transmitters, cables and accessories for predictive maintenance, continuous vibration monitoring, and machinery equipment protection. Products include rugged industrial ICP® accelerometers, 4-20 mA industrial vibration sensors and transmitters for 24/7 monitoring, electronic and mechanical vibration switches, the patented Bearing Fault Detector, high temperature accelerometers to +1300 °F (+704 °C), 2-wire Smart Vibration Switch, and the patented Reciprocating Machinery Protector. CE approved and intrinsically safe versions are available for most products.

Visit www.imi-sensors.com to locate your nearest sales office.