

Model Number
603M113

INDUSTRIAL ACCELEROMETER

Revision: B
ECN #: 26421

Performance

	ENGLISH	SI	
Sensitivity(± 20 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	± 20 g	± 196 m/s ²	
Frequency Range(± 3 dB)	96 to 600,000 cpm	1.6 to 10,000 Hz	[3]
Resonant Frequency	1500 kcprm	25 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	1.5 mg	15 mm/s ²	[1]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 7 %	≤ 7 %	

Environmental

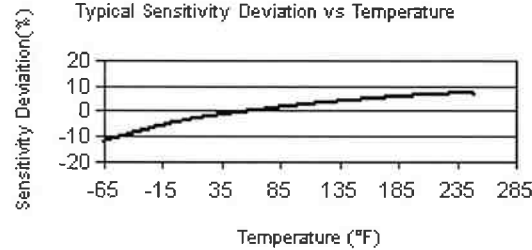
Overload Limit(Shock)	5000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	

Electrical

Settling Time(within 1% of bias)	≤ 5.0 sec	≤ 5.0 sec	
Discharge Time Constant	≥ 0.1 sec	≥ 0.1 sec	
Excitation Voltage	3 to 12 VDC	3 to 12 VDC	
Output Impedance	<100 ohm	<100 ohm	
Output Bias Voltage	1.5 to 6.0 VDC	1.5 to 6.0 VDC	
Spectral Noise(10 Hz)	18 µg/√Hz	176.6 (µm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	4 µg/√Hz	39.2 (µm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	2 µg/√Hz	19.6 (µm/s ²)/√Hz	[1]
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm	

Physical

Size (Hex x Height)	11/16 in x 1.86 in	18 mm x 47.2 mm	
Weight	2.0 oz	56.7 gm	
Mounting Thread	1/4-28 Female	No Metric Equivalent	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	3-Pin MIL-C-5015	3-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	
Electrical Connections(Pin A)	Pos (+) Power	Pos (+) Power	
Electrical Connections(Pin B)	Ground	Ground	
Electrical Connections(Pin C)	Signal	Signal	



OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud
Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: <i>[Signature]</i>	Engineer: <i>[Signature]</i>	Sales: <i>[Signature]</i>	Approved: <i>[Signature]</i>	Spec Number:
Date: 5-8-07	Date: 5/9/07	Date: 5-9-07	Date: 5/9/07	34081

All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.

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IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043

Phone: 800-959-4464
Fax: 716-684-3823
E-Mail: imi@pcb.com