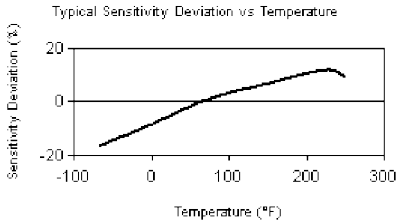
Model Number **607M03**	**INDUSTRIAL SWIVEL MOUNT ICP® ACCELEROMETER**	Revision A ECN #: 42246

Performance	**ENGLISH**	**SI**	
Sensitivity (±20 %)	50 mV/g	5.1 mV/(m/s²)	[2]
Measurement Range	±100 g	±981 m/s^2	
Frequency Range (±5 %)	72 to 300000 cpm	1.2 to 5 kHz	[3][4]
Frequency Range (±10 %)	52 to 420000 cpm	0.87 to 7 kHz	
Frequency Range (±3 dB)	26 to 600000 cpm	0.43 to 10 kHz	
Resonant Frequency	1500 kcpm	25 kHz	[1]
Non-Linearity	±1 %	±1 %	[5]
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP67	IP67	
Electrical			
Settling Time (within 1% of bias)	≤2.0 sec	≤2.0 sec	
Discharge Time Constant	≥0.4 sec	≥0.4 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 Ohm	<150 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Broadband Electrical Noise (1 to 10 kHz)	750 µg	7358 µm/sec^2	[1]
Spectral Noise (10 Hz)	18 µg/√Hz	176 (µm/sec^2/√Hz	[1]
Spectral Noise (100 Hz)	10 µg/√Hz	98.1 (µm/sec^2/√Hz	[1]
Spectral Noise (1 kHz)	7 µg/√Hz	68.7 (µm/sec^2/√Hz	[1]
Electrical Isolation (Case)	>10^8 Ohm	>10^8 Ohm	
Physical			
Size (Hex x Height)	9/16 in x 1.0 in	14.3 mm x 25.4 mm	
Weight (without cable)	1.02 oz	29 gm	[6]
Mounting Thread	1/4-28 Male	1/4-28 Male	[7]
Mounting Torque (stud)	7 to 8 ft-lb	9.5 to 10.8 Nm	[8][9]
Mounting Torque (hex nut)	3 to 5 ft-lb	4.1 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	IP67	
Electrical Connector	Integral Armored Cable	Integral Armored Cable	
Electrical Connection Position	Side	Side	

CE[10]



Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

M - Metric Mount
Supplied Accessory: Model M080A159A Mounting stud, 1/2-20 to M6 x 1 replaces Model 080A156

Notes

[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[3] 1Hz = 60 cpm (cycles per minute).
[4] The high frequency tolerance is accurate within ±10% of the specified frequency.
[5] Zero-based, least-squares, straight line method.
[6] Measured with mounting stud.
[7] 1/4-28 has no equivalent in S.I. units.
[8] Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
[9] 1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
[10] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories
080A156 Mounting Base (1)

Entered: AP	Engineer: jg	Sales: BRS	Approved: BAM	Spec Number:
Date: 11/12/2013	Date: 11/12/2013	Date: 11/12/2013	Date: 11/12/2013	**14366**

Company: IMI Sensors
Address: 3425 Walden
Depew, NY 14043
UNITED STATES
Phone: 800-959-4464
Fax: 716-684-3823
E-mail: imi@pcb.com
Web site: http://www.imi-sensors.com

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. ICP® is a registered trademark of PCB group, Inc.	