

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 5 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>	
Frequency Range(± 5 %)	35 to 360,000 cpm	0.58 to 6000 Hz	[3]
Frequency Range(± 10 %)	25 to 600,000 cpm	0.42 to 10,000 Hz	
Frequency Range(± 3 dB)	12 to 900,000 cpm	0.2 to 15,000 Hz	
Resonant Frequency	1800 kcpm	30 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	50 µg	490 µm/s <sup>2</sup>	[1]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 5.0 sec	≤ 5.0 sec	
Discharge Time Constant	≥ 0.8 sec	≥ 0.8 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 ohm	<100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	4.0 µg/√Hz	39.2 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	0.8 µg/√Hz	7.85 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	0.4 µg/√Hz	3.92 (µm/s <sup>2</sup> )/√Hz	[1]
Electrical Isolation	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm	
Electrical Protection	RFI/ESD	RFI/ESD	
<b>Physical</b>			
Size (Hex x Height)	7/8 in x 2.06 in	22 mm x 52.3 mm	
Weight(without cable)	3.3 oz	94 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	
Cable Length	10 ft	3 m	
Cable Type	Polyurethane	Polyurethane	[6]

**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.

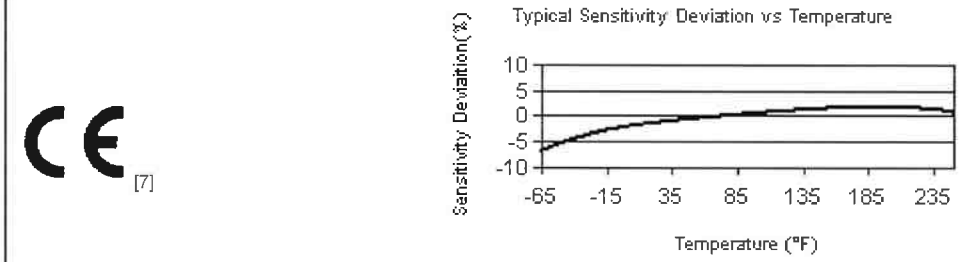
**M** - Metric Mount  
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

**NOTES:**

[1] Typical.  
 [2] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
 [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.  
 [6] Twisted shielded pair.  
 [7] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

Model 081A40 Mounting Stud (1)  
 Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)



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.

Entered: <i>JH</i>	Engineer: <i>SD</i>	Sales: <i>ESJ</i>	Approved: <i>WJ</i>	Spec Number:
Date: 7-17-07	Date: 8/10/07	Date: 8/15/07	Date: 8/13/07	37834

**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