

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	± 50 g pk	± 491 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	8.0 to 5500 Hz	8.0 to 5500 Hz	
Frequency Range(± 3 dB)	0.5 to 10 kHz	0.5 to 10 kHz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution(1 to 10,000 Hz)	.0003 g rms	.003 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 5000 g pk	± 5000 g pk	
Temperature Range(Operating)	-65 to 250 °F	-54 to 121 °C	
Temperature Response	See Graph	See Graph	[1]
<b>Electrical</b>			
Excitation Voltage	18 to 30 VDC	18 to 30 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	
Discharge Time Constant	≥ .32 sec	≥ .32 sec	
Settling Time(within 10% of bias)	<2 sec	<2 sec	
Spectral Noise(1 Hz)	90 µg/√Hz	883 (µm/sec <sup>2</sup> )/√Hz	[1][2]
Spectral Noise(10 Hz)	20 µg/√Hz	196 (µm/sec <sup>2</sup> )/√Hz	[1][2]
Spectral Noise(100 Hz)	10 µg/√Hz	98.1 (µm/sec <sup>2</sup> )/√Hz	[1][2]
Spectral Noise(1 kHz)	3.0 µg/√Hz	29.4 (µm/sec <sup>2</sup> )/√Hz	[1][2]
Electrical Isolation(Case)	≥ 10 <sup>8</sup> Ohm	≥ 10 <sup>8</sup> Ohm	
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	.72 in x .95 in x .95 in	18.3 mm x 24.1 mm x 24.1 mm	
Weight(Maximum)	3.0 oz	85 gm	
Electrical Connector	4-Pin, M12	4-Pin, M12	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	

**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.

**EX** - Hazardous Area Approval- contact factory for specific approvals

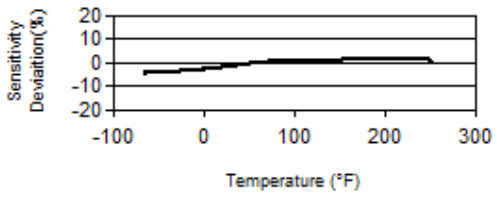
**NOTES:**

[1] Typical.  
 [2] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
 [3] Zero-based, least-squares, straight line method.  
 [4] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

Model 081A56 Captive mounting bolt 1/4-28 x .75" (1)  
 Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

Typical Sensitivity Deviation vs Temperature



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: LK	Engineer: JJD	Sales: JJB	Approved: MC	Spec Number:
Date: 6/20/2017	Date: 6/20/2017	Date: 6/20/2017	Date: 6/20/2017	<b>64198</b>

**IMI SENSORS**  
 A PCB PIEZOTRONICS DIV.

**IMI Sensors**  
 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