

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[3]
Measurement Range	± 50 g	± 490.5 m/s <sup>2</sup>	
Frequency Range(3 dB)(z axis)	120 to 600,000 cpm	2 to 10,000 Hz	[4][5]
Frequency Range(3 dB)(x or y axis)	120 to 420,000 cpm	2 to 7000 Hz	
Resonant Frequency	1020 kcpm	17 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	560 µg	5694 µm/sec <sup>2</sup>	[1]
Non-Linearity	± 1 %	± 1 %	[6]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
<b>Environmental</b>			
Overload Limit(Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-40 to +176 °F	-40 to +80 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 3.0 sec	≤ 3.0 sec	
Discharge Time Constant	≥ 0.1 sec	≥ 0.1 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<350 Ohm	<350 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	40 µg/√Hz	392 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	10 µg/√Hz	98.1 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	6 µg/√Hz	58.9 (µm/sec <sup>2</sup> )/√Hz	[1]
Electrical Isolation	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	[2]
Electrical Protection	RFI/ESD	RFI/ESD	
<b>Physical</b>			
Size (Diameter x Height)	1.49 in x 0.69 in	37.9 mm x 17.5 mm	
Weight(without cable)	3.9 oz	110 gm	[1]
Mounting	Through Hole	Through Hole	
Mounting Torque(Through Bolt)	2 to 5 ft-lb	2.7 to 6.8 N-cm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Epoxy	Epoxy	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Cable Length(Maximum Extended)	6 ft	1.83 m	
Cable Type	Polyurethane	Polyurethane	

**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] Case is also isolated from cable shield at >10<sup>8</sup> ohm  
 [3] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
 [4] 1Hz = 60 cpm (cycles per minute).  
 [5] The high frequency tolerance is accurate within ±10% of the specified frequency.  
 [6] Zero-based, least-squares, straight line method.  
 [7] See PCB Declaration of Conformance PS023 for details.

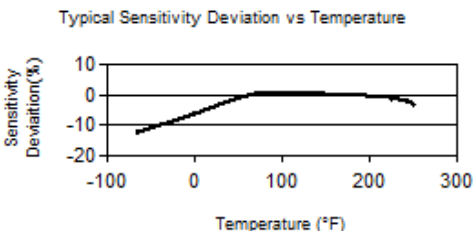
**SUPPLIED ACCESSORIES:**

Model 54101-01 Mounting Bolt 10-32x.95" (Mating Guide) (1)  
 Model 54102-01 Locator Pin 5mm OD x 5.8mm long (1)  
 Model ICS-7 NIST traceable triaxial amplitude response calibration from 10 Hz to upper +/-3dB point.

Entered: LK      Engineer: BAM      Sales: MC      Approved: BAM      Spec Number:  
 Date: 10/5/2016      Date: 10/5/2016      Date: 10/5/2016      Date: 10/5/2016      **62406**



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