

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	[3]
Measurement Range	± 50 g	± 490.5 m/s ²	
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 ²	[1]
Non-Linearity	± 1 %	± 1 %	[6]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5000 g pk	490,550 m/s ² pk	
Temperature Range	-40 to +176 °F	-40 to +80 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
Electrical			
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 ²)/√Hz	[1]
Spectral Noise(100 Hz)	10 µg/√Hz	98.1 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	6 µg/√Hz	58.9 (µm/sec ²)/√Hz	[1]
Electrical Isolation	>10 ⁸ Ohm	>10 ⁸ Ohm	[2]
Electrical Protection	RFI/ESD	RFI/ESD	
Physical			
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	M12 4-Pin	M12 4-Pin	
Electrical Connection Position	Top	Top	
Electrical Connections(Pin 1)	Z axis	Z axis	
Electrical Connections(Pin 2)	X axis	X axis	
Electrical Connections(Pin 3)	Y axis	Y axis	
Electrical Connections(Pin 4)	Ground	Ground	
Electrical Connections(Coupling Nut)	Outer shield of cable	Outer shield of cable	
Cable Length(Maximum)	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.

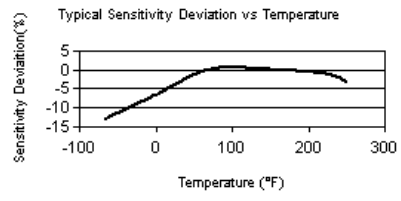
EX - Hazardous Area Approval- contact factory for specific approvals [8]

NOTES:

[1]Typical.
 [2]Case is also isolated from cable shield at >10⁸ ohm
 [3]Conversion Factor 1g = 9.81 m/s².
 [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 or PS140 for details.
 [8]EX ia IIC T4.

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.



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