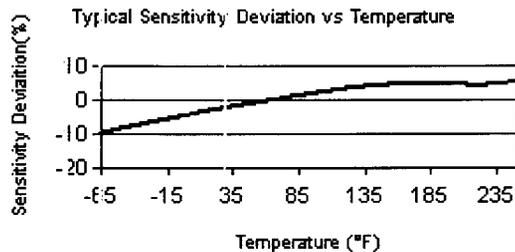


Model Number
625B12

INDUSTRIAL ICP® ACCELEROMETER

Revision: A
ECN #: 14824

	ENGLISH	SI	
Performance			
Sensitivity (±5 %)	500 mV/g	51 mV/(m/s ²)	[2]
Measurement Range	±10 g	±98 m/s ²	
Frequency Range (±5 %)	30 to 120000 cpm	0.5 to 2000 Hz	[3]
Frequency Range (±10 %)	22 to 240000 cpm	0.37 to 4000 Hz	
Frequency Range (±3 dB)	12 to 360000 cpm	0.2 to 6000 Hz	
Resonant Frequency	720 kcpm	12 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	15 µg	147 µm/s ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	2500 g pk	24525 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time (within 1% of bias)	≤4.5 sec	≤4.5 sec	
Discharge Time Constant	≥1.0 sec	≥1.0 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 ohms	<100 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	0.5 µg/√Hz	8.8 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	0.7 µg/√Hz	7.0 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	0.5 µg/√Hz	3.1 (µm/s ²)/√Hz	[1]
Electrical Isolation (Case)	>10 ⁸ ohms	>10 ⁸ ohms	
Electrical Protection	RFI/ESD	RFI/ESD	
Physical			
Size (Diameter x Height)	1.38 in x 1 1/8 in	35.1 mm x 28.7 mm	
Weight (without cable)	6.0 oz	169 gm	
Mounting	Through Hole	Through Hole	
Mounting Thread	1/4-28 Male	Not Applicable	[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	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3.0 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.

Option	Standard Model	Optional Version
LB - Low Bias Voltage		
Output Bias Voltage	6 to 8 VDC	6 to 8 VDC
Excitation Voltage	2 to 28 VDC	12 to 28 VDC
Measurement Range	±7 g	±69 m/s ²

M - Metric Mount
Supplied Accessory : Model M081A73 Mounting Bolt M6 x 1.00

Option	Standard Model	Optional Version
TO - Temperature Output		
Temperature Output Range	+36 to +250 °F	+2 to +121 °C
Temperature Scale Factor	5.56 mV/°F + 32	+10 mV/°C
Electrical Connector	3-Pin	3-Pin
Electrical Connections (Red)	Acceleration Output	Acceleration Output
Electrical Connections (Black)	Ground	Ground
Electrical Connections (White)	Temperature Output	Temperature Output
Electrical Connections (Green)	Ground	Ground

NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [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 080B45 Thermal Bolt (1)
Model 081A73 Captive mounting bolt 1/4-28 x 1.34" (1)
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency

Entered: <i>MWS</i>	Engineer: <i>MWS</i>	Sales: <i>BSM</i>	Approved: <i>DF</i>	Spec Number:
Date: <i>11.1.02</i>	Date: <i>11.1.02</i>	Date: <i>11/5/02</i>	Date: <i>11/1/02</i>	11533

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

All specifications are at room temperature unless otherwise specified.
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