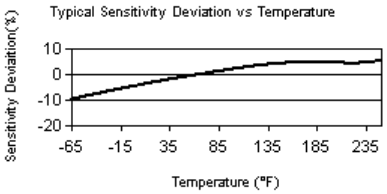
Model Number 625B02	LOW FREQUENCY INDUSTRIAL ICP® ACCELEROMETER	Revision C ECN #: 14824

Performance	ENGLISH	SI	
Sensitivity (±5 %)	500 mV/g	51 mV/(m/s²)	[2]
Measurement Range	±10 g	±98 m/s²	
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/sec²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	2500 g pk	24525 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
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 Ohm	<100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	0.9 µg/√Hz	8.8 (µm/sec²/√Hz	[1]
Spectral Noise (100 Hz)	0.7 µg/√Hz	7.0 (µm/sec²/√Hz	[1]
Spectral Noise (1 kHz)	0.3 µg/√Hz	3.1 (µm/sec²/√Hz	[1]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation (Case)	>10⁸ Ohm	>10⁸ Ohm	
Physical			
Size (Diameter x Height)	1.3 in x 1 1/8 in	35.1 mm x 28.7 mm	
Weight	6.1 oz	173 gm	
Mounting	Through Hole	Through Hole	
Mounting Thread	1/4-28 Male	1/4-28 Male	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	

CE[6]



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.

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

LB - Low Bias Voltage

Output Bias Voltage	6 to 8 VDC	6 to 8 VDC
Excitation Voltage	12 to 28 VDC	12 to 28 VDC
Measurement Range	±7 g	±69 m/s²

M - Metric Mount

Supplied Accessory: Model M081A73 M6 x 34.0 mm Hex Head Captive Through Bolt

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 (Pin A)	Acceleration Output	Acceleration Output
Electrical Connections (Pin B)	Ground	Ground
Electrical Connections (Pin C)	Temperature Output	Temperature Output

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] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

080B45 Thermal Boot (1)
081A73 Captive mounting bolt 1/4-28 x 1.34" (1)
ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ()

Entered: MWS	Engineer: MWS	Sales: EGY	Approved: NJF	Spec Number:
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