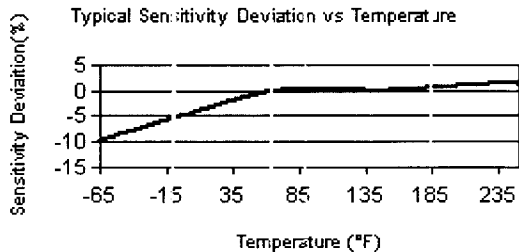


Model Number
625B10

INDUSTRIAL ICP[®] ACCELEROMETER

Revision: B
ECN #: 14824

	ENGLISH	SI	
Performance			
Sensitivity (±5 %)	10 mV/g	1.0 mV/(m/s ²)	[2]
Measurement Range	±500 g	±4905 m/s ²	
Frequency Range (±5 %)	30 to 390000 cpm	0.5 to 6500 Hz	[3]
Frequency Range (±10 %)	22 to 450000 cpm	0.37 to 7500 Hz	
Frequency Range (±3 dB)	12 to 630000 cpm	0.2 to 10500 Hz	
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	350 µg	3434 µm/s ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 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)	≤8 sec	≤8 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-s	<100 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	15 µg/√Hz	147 (µm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	7 µg/√Hz	69 (µm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	4 µg/√Hz	39 (µm/s ²)/√Hz	[1]
Electrical Isolation (Case)	>10 ⁸ ohm-s	>10 ⁸ ohms	
Electrical Protection	RFI/ESD	RFI/ESD	
Physical			
Size (Diameter x Height)	1.38 in x 1.13 in	35.1 mm x 28.7 mm	
Weight (without cable)	5.1 oz	145 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 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.

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	±350 g	±3434 m/s ²

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

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 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.

SUPPLIED ACCESSORIES:

Model 080B45 Thermal Boot (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>BBJ</i>	Approved: <i>U.F.</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>	15437

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All specifications are at room temperature unless otherwise specified.
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