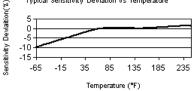
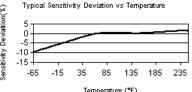
			RIAL I
erformance	ENGLISH	SI	
Sensitivity (±5 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	±50 g	±490 m/s ²	
Frequency Range (±5 %)	30 to 390000 cpm	0.5 to 6500 Hz	[3]
Frequency Range (±10 %)	22 to 450000 cpm	0.37 to 7500 Hz	
Frequency Range (±3 dB)	12 to 630000 cpm	0.2 to 10500 Hz	
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution (1 to 10000 Hz)		491 µm/sec ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤5 %	≤5 %	
nvironmental			
Overload Limit (Shock)	5000 g pk	49050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP68	IP68	
lectrical			
Settling Time (within 1% of bias)	≤8.0 sec	≤8.0 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)	2.5 μg/√Hz	24.5 (µm/sec²/√Hz	[1]
Spectral Noise (100 Hz)	0.8 µg/√Hz	7.8 (µm/sec²/√Hz	[1]
Spectral Noise (1 kHz)	0.5 µg/√Hz	4.9 (µm/sec²/√Hz	[1]
Electrical Protection	RFI/ESD	`RFI/ESD	
Electrical Isolation (Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
nysical			
Size (Diameter x Height)	1.36 in x 1.13 in	35.1 mm x 28.7 mm	
Weight	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 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	









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

Revision H ECN #: 29661

CS - Canadian Standards Association Approved Intrinsically Safe

Hazardous Area Approval	Cl I, Div I, Groups	Cl I, Div I, Groups
	A, B, C, D; Cl II,	A, B, C, D; Cl II,
	Div I, Groups E, F,	Div I, Groups E, F,
	G; Cl III, Div I	G; Cl III, Div I
Hazardous Area Approval	Exia IIC T4, AExia	Exia IIC T4, AExia
	IIC, T4	IIC, T4
Hazardous Area Approval	Cl I, Div 2, Groups	Cl I, Div 2, Groups
	A, B, C, D; ExnL	A, B, C, D; ExnL
	IIC T4, AExnA IIC	IIC T4, AExnA IIC
	T4	T4

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 ±343 m/s² ±35 g

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	Acceleration
	Output	Output
Electrical Connections (Pin B)	Ground	Ground
Electrical Connections (Pin C)	Temperature	Temperature
	Output	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: BLS	Engineer: JEC	Sales: NJF	Approved: BLS	Spec Number:
Date:	Date:	Date:	Date:	8609
11/11/2008	11/07/2008	11/07/2008	11/12/2008	



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All specifications are at room temperature unless otherwise specified.	ii
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