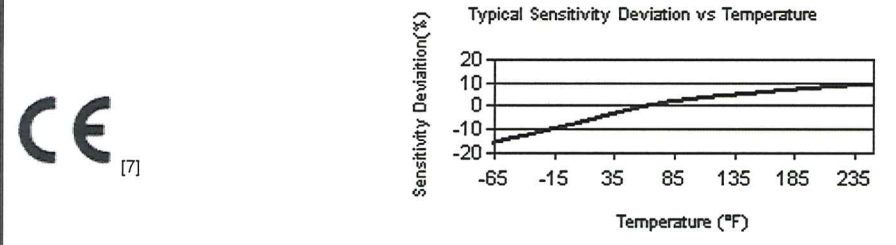


	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 5 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>	
Frequency Range(± 5 %)	35 to 240,000 cpm	0.58 to 4000 Hz	[3]
Frequency Range(± 10 %)	25 to 300,000 cpm	0.42 to 5000 Hz	
Frequency Range(± 3 dB)	12 to 600,000 cpm	0.2 to 10,000 Hz	
Resonant Frequency	1200 kcpm	20 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	50 µg	490 µm/sec <sup>2</sup>	[1]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 5.0 sec	≤ 5.0 sec	
Discharge Time Constant	≥ 0.8 sec	≥ 0.8 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)	4.0 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	0.8 µg/√Hz	7.85 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	0.4 µg/√Hz	3.9 (µm/sec <sup>2</sup> )/√Hz	[1]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm	
<b>Physical</b>			
Size (Hex x Height)	7/8 in x 4.3 in	22 mm x 109 mm	
Weight(without cable)	3.3 oz	94 gm	
Mounting Thread	1/4-28 Female	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	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[6]

<b>OPTIONAL VERSIONS</b>		
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
<b>CS - Canadian Standards Association Approved Intrinsically Safe</b>		
Hazardous Area Approval	CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I	CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I
Hazardous Area Approval	Exia IIC T4, AExia IIC, T4	Exia IIC T4, AExia IIC, T4
Hazardous Area Approval	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4	CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
<b>EX - Hazardous Area Approval- contact factory for specific approvals</b>		
Hazardous Area Approval	EEx ia IIC T4, -54°C≤Tas≤121°C, II 1 G	EEx ia IIC T4, -54°C≤Tas≤121°C, II 1 G
<b>LB - Low Bias Voltage</b>		
Output Bias Voltage	6 to 8 VDC	6 to 8 VDC
Excitation Voltage	12 to 28 VDC	12 to 28 VDC
Measurement Range	± 35 g	± 343 m/s <sup>2</sup>
<b>M - Metric Mount</b>		
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40		
<b>MS - Mine Safety &amp; Health Administration Certification</b> [8]		
<b>MX - European Mine Safety Certification</b> [9]		
<b>TO - Temperature Output</b>		
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/s<sup>2</sup>.  
 [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, PS090 or PS061 for details.  
 [8] Sensor Class K.  
 [9] I M1 Ex ia I

**SUPPLIED ACCESSORIES:**  
 Model 081A40 Mounting Stud (1)  
 Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

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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Entered: <i>10mvl</i>	Engineer: <i>JOJO</i>	Sales: <i>HJB</i>	Approved: <i>YB</i>	Spec Number:
Date: <i>2/24/11</i>	Date: <i>2/24/11</i>	Date: <i>2/24/11</i>	Date: <i>2/24/11</i>	7988