

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 20 %)(z axis)	0.25 mV/lb	0.06 mV/N	[1][2]
Sensitivity(± 20 %)(x or y axis)	1.25 mV/lb	0.28 mV/N	[1][2]
Measurement Range(z axis)	10,000 lb	44.48 kN	
Measurement Range(x or y axis)	4000 lb	17.79 kN	
Maximum Force(z axis)	11,000 lb	48.93 kN	
Maximum Force(x or y axis)	4400 lb	19.57 kN	
Maximum Moment(z axis)	240 ft-lb	325.4 Nm	
Maximum Moment(x or y axis)	325 ft-lb	440.7 Nm	
Broadband Resolution(z axis)	0.05 lb-rms	0.222 N-rms	[3]
Broadband Resolution(x or y axis)	0.01 lb-rms	0.04 N-rms	[3]
Upper Frequency Limit	39,000 Hz	39,000 Hz	
Low Frequency Response(-5 %)(z-axis)	0.01 Hz	0.01 Hz	
Low Frequency Response(-5 %)(x or y axis)	0.001 Hz	0.001 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Cross Talk(between x and y axis)	± 3 %	± 3 %	
Cross Talk(between (x or y axis) and z axis)	± 5 %	± 5 %	
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Electrical			
Full Scale Output(Z Direction)	± 2.5 VDC	± 2.5 VDC	
Full Scale Output(X and Y Direction)	± 5 VDC	± 5 VDC	
Discharge Time Constant(z axis)	≥ 50 sec	≥ 50 sec	
Discharge Time Constant(x or y axis)	≥ 500 sec	≥ 500 sec	
Excitation Voltage(all channels)	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation(all channels)	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Spectral Noise(1 Hz)(X & Y)	0.003 lb/√Hz	0.0134 N/√Hz	
Spectral Noise(10 Hz)(X & Y)	0.001 lb/√Hz	0.00445 N/√Hz	
Spectral Noise(100 Hz)(X & Y)	0.0004 lb/√Hz	0.00178 N/√Hz	
Spectral Noise(1000 Hz)(X & Y)	0.0001 lb/√Hz	0.000445 N/√Hz	
Spectral Noise(1 Hz)(Z)	0.02 lb/√Hz	0.089 N/√Hz	
Spectral Noise(10 Hz)(Z)	0.005 lb/√Hz	0.0222 N/√Hz	
Spectral Noise(100 Hz)(Z)	0.002 lb/√Hz	0.0089 N/√Hz	
Spectral Noise(1000 Hz)(Z)	0.0005 lb/√Hz	0.00222 N/√Hz	
Output Polarity	Positive	Positive	
Physical			
Preload	40,000 lb	178 kN	[5]
Stiffness(z axis)	38.8 lb/μin	6.8 kN/μm	[3]
Stiffness(x or y axis)	11.4 lb/μin	2.0 kN/μm	[3]
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.790 in x 2.25 in x 2.25 in x 1 in x 1.023 in x 1.800 in	20.07 mm x 57.1 mm x 57.1 mm x 25.98 mm x 45.72 mm	
Weight	9.56 oz	271 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	

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.

M - Metric Mount
Supplied Accessory : Model M081A71 Mounting Stud (1) replaces Model 081A71

W - Water Resistant Cable

Electrical Connection Position Side Side

NOTES:

[1]Sensitivities are for listed preload. Sensitivities may vary ±5% depending on preload used.
 [2]Sensitivities are dependent upon supplied bolt.
 [3]Typical.
 [4]Zero-based, least-squares, straight line method.
 [5]Preload should be at least 10 times the X and Y operating range used.
 [6]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model 081A71 Mounting Stud (1)
 Model 082B06 Anti-Friction Washer (1)
 Model 083A11 Pilot Bushing (1)

Entered: LK	Engineer: BAM	Sales: RWM	Approved: BAM	Spec Number:
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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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