

Performance	ENGLISH	SI	
Sensitivity(± 20 %)(Z Axis)	490 mV/lb	110 mV/N	[2][3]
Sensitivity(± 20 %)(X or Y Axis)	490 mV/lb	110 mV/N	[2][3]
Measurement Range(Z Axis)	10.1 lb	45 N	
Measurement Range(X or Y Axis)	10.1 lb	45 N	
Maximum Force(z axis)	13.5 lb	60 N	
Maximum Force(x or y axis)	13.5 lb	60 N	
Maximum Moment(z axis)	14 ft-lb	18.98 Nm	
Maximum Moment(x or y axis)	13 ft-lb	17.63 Nm	
Broadband Resolution(z axis)	≤0.0003 lb-rms	≤0.0013 N-rms	
Broadband Resolution(x or y axis)	≤0.0003 lb-rms	≤0.0013 N-rms	
Upper Frequency Limit	90 kHz	90 kHz	
Low Frequency Response(-5 %)(z-axis)	0.02 Hz	0.02 Hz	
Low Frequency Response(-5 %)(x or y axis)	0.01 Hz	0.01 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)	± 5 VDC	± 5 VDC	
Full Scale Output(X and Y Direction)	± 5 VDC	± 5 VDC	
Discharge Time Constant(z axis)	≥ 25 sec	≥ 25 sec	
Discharge Time Constant(x or y axis)	≥ 50 sec	≥ 50 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)	300 µlb/√Hz	1350 µN/√Hz	[1]
Spectral Noise(10 Hz)(X & Y)	150 µlb/√Hz	670 µN/√Hz	[1]
Spectral Noise(100 Hz)(X & Y)	50 µlb/√Hz	230 µN/√Hz	[1]
Spectral Noise(1 kHz)(X & Y)	2.3 µlb/√Hz	10 µN/√Hz	[1]
Spectral Noise(10 kHz)(X & Y)	0.7 µlb/√Hz	3 µN/√Hz	[1]
Spectral Noise(1 Hz)(Z)	150 µlb/√Hz	670 µN/√Hz	[1]
Spectral Noise(10 Hz)(Z)	55 µlb/√Hz	250 µN/√Hz	[1]
Spectral Noise(100 Hz)(Z)	20 µlb/√Hz	90 µN/√Hz	[1]
Spectral Noise(1 kHz)(Z)	2.3 µlb/√Hz	10 µN/√Hz	[1]
Spectral Noise(10 kHz)(Z)	0.7 µlb/√Hz	3 µN/√Hz	[1]
Output Polarity	Positive	Positive	
Physical			
Preload Torque	56 in-lb	6.3 Nm	[5][6]
Stiffness(z axis)	10 lb/µin	1.75 kN/µm	[1]
Stiffness(x or y axis)	4 lb/µin	0.7 kN/µm	[1]
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.390 in x 1.075 in x 0.95 in x 0.205 in x 0.319 in x 0.680 in	9.90 mm x 27.3 mm x 24.1 mm x 5.21 mm x 8.10 mm x 17.27 mm	
Weight	0.927 oz	26.28 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.

NOTES:

[1] Typical.
 [2] Sensitivities are for listed preload. Sensitivities may vary ±5% depending on preload used.
 [3] Sensitivities are dependent upon supplied bolt.
 [4] Zero-based, least-squares, straight line method.
 [5] Perform in steps of 2.5 in-lbs (28 N cm) to protect electronics (40 V max).
 [6] Apply thin layer of lithium grease to sliding surfaces (washer, nut, threads).
 [7] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 082B02 Anti-Friction Washer (1)
 Model 083A10 Pilot Bushing (1)
 Model M081A70 Mounting Stud (1)

Entered: LK	Engineer: DK	Sales: RWM	Approved: BAM	Spec Number:
Date: 2/19/2019	Date: 2/19/2019	Date: 2/19/2019	Date: 2/19/2019	35960



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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