

Model Number 1411-02ADB	FATIGUE RATED LOW PROFILE LOAD CELL, DUAL BRIDGE			Revision: D ECN #: 43840
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range(100 x 10 ⁶ cycles)	100 klb	445 kN	[5][6]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Sensitivity(± 10 %)(Rated Output)	2.0 mV/V	2.0 mV/V	[7][1]	
Non-Linearity	≤ 0.06 % FS	≤ 0.06 % FS		
Hysteresis	≤ 0.06 % FS	≤ 0.06 % FS		
Non-Repeatability	≤ 0.02 % FS	≤ 0.02 % FS		
Eccentric Load Sensitivity	≤ 0.1 %/in	≤ 0.1 %/25.4mm		
Resonant Frequency	18 kHz	18 kHz		
Side Load Sensitivity	≤ 0.1 %/in	≤ 0.1 %/25.4mm		
Creep(in 20 minutes)	0.025 %	0.025 %		
Static Error Band	≤ 0.06 % FS	≤ 0.06 % FS	[5]	
Environmental				NOTES:
Overload Limit	300 klb	1335 kN		[1]Nominal.
Load Limit(Side Force, F _X or F _Y)	100 klb	445 kN	[3]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Load Limit(Bending Moment, M _X or M _Y)	100k lbf-in	11.3k Nm	[3]	[3]Singularly applied, i.e. no other extraneous loads.
Load Limit(Axial Torque, M _Z)	100k lbf-in	11.3k Nm	[3]	[4]Over compensated operating temperature range.
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		[5]FS - Full Scale.
Temperature Range(Compensated)	+15 to +115 °F	-9 to +46 °C		[6]Calibrated in tension and compression.
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0018 %Reading/°C	[4]	[7]RO - Rated Output.
Temperature Effect on Zero Balance(Maximum)	± 0.0008 %FS/°F	± 0.0018 %FS/°C	[4]	[8]See Outline Drawing 51434 for Complete Dimensions
Electrical				OPTIONAL ACCESSORIES:
Bridge Resistance	350 Ohm	350 Ohm	[1]	Model 084A40 Lifting Plug
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	Model 084A41 Lifting Plug
Insulation Resistance	≥ 5k GOhm	≥ 5k GOhm		Model 084A58 Pre-Tension Stud
Zero Balance	≤ 1 % FS	≤ 1 % FS		Model 084A59 Pre-Tension Stud
Output Polarity	+Tension	+Tension		Model 181-012A PT06A-10-6S(SR)
				Model 8311-01-10A CABLE
Physical				
Size (Diameter x Height)	11.00 in x 7.00 in	279.40 mm x 177.80 mm	[8]	
Weight	135 lb	61.3 kg		
Mounting Thread	2 3/4 - 8 UN-3B	No Metric Equivalent		
Sensing Element	Strain Gage	Strain Gage		
Mounting Torque	6000 lbf-in	678 Nm		
Deflection at Full Scale Capacity	0.001 in	0.03 mm		
Electrical Connector	PT02E-10-6P (2)	PT02E-10-6P (2)		
<i>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.</i>				
Entered: AP	Engineer: PE	Sales: RWM	Approved: JSD	Spec Number:
Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	51822
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