

Model Number <b>1403-12A</b>		<b>FATIGUE RATED LOW PROFILE LOAD CELL</b>			Revision: B ECN #: 43809
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Measurement Range(100 x 10 <sup>6</sup> cycles)		500 lbf	2224 N	[6][7]	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>1403-12B</b> - PC04E-10-6P Connector  <b>1403-12C</b> - PT02E-12-8P Connector  <b>1403-12D</b> - PC01E-12-8P Connector
Sensitivity(± 10 %)(RO)		1.0 mV/V	1.0 mV/V	[3][1]	
Non-Linearity		≤ 0.04 % FS	≤ 0.04 % FS	[6][8]	
Hysteresis		≤ 0.03 % FS	≤ 0.03 % FS	[6][8]	
Non-Repeatability		≤ 0.02 %RO	≤ 0.02 %RO	[3][8]	
Eccentric Load Sensitivity		0.1 %/in	0.1 %/25.4mm	[8]	
Resonant Frequency		3.5 kHz	3.5 kHz		
Side Load Sensitivity		0.1 %/in	0.1 %/25.4mm	[8]	
Creep(in 20 minutes)		0.025 %	0.025 %	[8]	
Static Error Band		≤ 0.03 % FS	≤ 0.03 % FS	[6][8]	
<b>Environmental</b>					<b>NOTES:</b> [1]Nominal. [2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [3]RO - Rated Output. [4]Singularly applied, i.e. no other extraneous loads. [5]Over compensated operating temperature range. [6]FS - Full Scale. [7]Calibrated in tension and compression. [8]Performance specifications guaranteed with factory installed optional Tension Base 084A100 [9]See Outline Drawing 49932 for Complete Dimensions
Overload Limit		1500 lbf	6672 N		
Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> )		1000 lbf	4448 kN	[4]	
Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> )		1000 lbf-in	113 Nm	[4]	
Load Limit(Axial Torque, M <sub>Z</sub> )		1000 lbf-in	113 Nm	[4]	
Temperature Range(Operating)		-65 to +200 °F	-54 to +93 °C		
Temperature Range(Compensated)		+15 to +115 °F	-9 to +46 °C		
Temperature Effect on Output(Maximum)		± 0.0008 %Reading/°F	± 0.0018 %Reading/°C	[5]	
Temperature Effect on Zero Balance(Maximum)		± 0.0008 %FS/°F	± 0.0018 %FS/°C	[5]	
<b>Electrical</b>					
Bridge Resistance		350 Ohm	350 Ohm	[1]	
Excitation Voltage(Recommended)		10 VDC	10 VDC	[2]	
Insulation Resistance		>5k GOhm	>5k GOhm		
Zero Balance		± 1 %RO	± 1 %RO	[3]	
Output Polarity		+Tension	+Tension		
<b>Physical</b>					
Size (Diameter x Height)		4.12 in x 2.50 in	104.6 mm x 63.5 mm	[9]	
Weight		6.4 lb	2.9 kg		
Mounting Thread		5/8 - 18 UNF-3B	No Metric Equivalent		
Housing Material		Painted Steel	Painted Steel		
Sensing Element		Strain Gage	Strain Gage		
Mounting Torque		200 lbf-in	23 Nm		
Deflection at Full Scale Capacity		0.0005 in	0.013 mm		
Electrical Connector		PT02E-10-6P	PT02E-10-6P		
<p><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></p>					
Entered: AP		Engineer: PE		Sales: JC	
Date: 2/16/2015		Date: 2/16/2015		Date: 2/16/2015	
Approved: JSD			Spec Number:		
			<b>56130</b>		
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