

Model Number <b>1203-13A</b>	<b>LOW PROFILE LOAD CELL</b>			Revision: B ECN #: 43809
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Measurement Range	2000 lbf	8896 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>1203-13B</b> - PC04E-10-6P Connector  <b>1203-13C</b> - PT02E-12-8P Connector  <b>1203-13D</b> - PC01E-12-8P Connector
Sensitivity(± 10 %)(RO)	2.0 mV/V	2.0 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	≤ 0.01 %RO	≤ 0.01 %RO	[3][8]	
Eccentric Load Sensitivity	0.25 %/in	0.25 %/25.4mm	[8]	
Resonant Frequency	5.5 kHz	5.5 kHz		
Side Load Sensitivity	0.25 %/in	0.25 %/25.4mm	[8]	
Creep(in 20 minutes)	0.025 %	0.025 %	[8]	
Static Error Band	≤ 0.04 % FS	≤ 0.04 % FS	[6][8]	
<b>Environmental</b>				<b>NOTES:</b>
Overload Limit	3000 lbf	13 kN		[1]Nominal.
Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> )	1000 lbf	4448 N	[4]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> )	1000 lbf-in	113 Nm	[4]	[3]RO - Rated Output.
Load Limit(Axial Torque, M <sub>Z</sub> )	1000 lbf-in	113 Nm	[4]	[4]Singularly applied, i.e. no other extraneous loads.
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		[5]Over compensated operating temperature range.
Temperature Range(Compensated)	+15 to +115 °F	-9 to +46 °C		[6]FS - Full Scale.
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0018 %Reading/°C	[5]	[7]Calibrated in tension and compression.
Temperature Effect on Zero Balance(Maximum)	± 0.0008 %FS/°F	± 0.0018 %FS/°C	[5]	[8]Performance specifications guaranteed with factory installed optional Tension Base 084A100
<b>Electrical</b>				[9]See Outline Drawing 49605 for Complete Dimensions
Bridge Resistance	350 Ohm	350 Ohm	[1]	<b>OPTIONAL ACCESSORIES:</b>
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	Model 084A100 TENSION LOAD BASE W/ 5/8-18 UNF-3B THD
Insulation Resistance	>5K GOhm	>5K GOhm		Model 084A55 Pre-Tension Stud
Zero Balance	± 1 %RO	± 1 % FS	[3]	Model 084A90 Connector Shroud
Output Polarity	+Tension	+Tension		Model 181-012A PT06A-10-6S(SR)
<b>Physical</b>				Model 8311-01-10A CABLE
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	0.001 in	0.03 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		Spec Number:
Date: 2/16/2015		Date: 2/16/2015		<b>56126</b>
Sales: JC		Approved: JSD		
Date: 2/16/2015		Date: 2/16/2015		
<p><b>PCB Load &amp; Torque, Inc.</b>  <b>24350 Indoplex Circle</b>  <b>Farmington Hills, MI 48335</b>  <b>UNITED STATES</b>  <b>Phone: 866-684-7107</b>  <b>Fax: 716-684-0987</b>  <b>E-Mail: <a href="mailto:Itinfo@pcbloadtorque.com">Itinfo@pcbloadtorque.com</a></b>  <b>Web site:</b>  <b><a href="http://www.pcbloadtorque.com">http://www.pcbloadtorque.com</a></b></p>				



Represented in India by

**Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: [sales@stsols.com](mailto:sales@stsols.com)**

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029