

Model Number 1203-15A	LOW PROFILE LOAD CELL				Revision: B ECN #: 43809
Performance		ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range		10 klbf	44 kN	[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. 1203-15B - PC04E-10-6P Connector 1203-15C - PT02E-12-8P Connector 1203-15D - PC01E-12-8P Connector
Sensitivity(± 10 %)(RO)		4.0 mV/V	4.0 mV/V	[3][1]	
Non-Linearity		≤ 0.05 % FS	≤ 0.05 % FS	[6][8]	
Hysteresis		≤ 0.05 % FS	≤ 0.05 % 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		10 kHz	10 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]	
Environmental					NOTES: [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 49605 for Complete Dimensions
Overload Limit		15 klbf	67 kN		
Load Limit(Side Force, F _X or F _Y)		5000 lbf	22 kN	[4]	
Load Limit(Bending Moment, M _X or M _Y)		5000 lbf-in	565 Nm	[4]	
Load Limit(Axial Torque, M _Z)		5000 lbf-in	565 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]	
Electrical					
Bridge Resistance		350 Ohm	350 Ohm	[1]	OPTIONAL ACCESSORIES: Model 084A100 TENSION LOAD BASE W/ 5/8-18 UNF-3B THD Model 084A55 Pre-Tension Stud Model 084A90 Connector Shroud Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE
Excitation Voltage(Recommended)		10 VDC	10 VDC	[2]	
Insulation Resistance		>5K GOhm	>5K GOhm		
Zero Balance		± 1 %RO	± 1 % FS	[3]	
Output Polarity		+Tension	+Tension		
Physical					
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		0.002 in	0.05 mm		
Electrical Connector		PT02E-10-6P	PT02E-10-6P		
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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