

Model Number 1203-14A	LOW PROFILE LOAD CELL				Revision: B ECN #: 43809
Performance		ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range	5000 lbf	22 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. 1203-14B - PC04E-10-6P Connector 1203-14C - PT02E-12-8P Connector 1203-14D - 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	7 kHz	7 kHz			
Side Load Sensitivity	0.25 %/in	0.25 %/25.4mm	[8]		
Creep(in 20 minutes)	0.025 %	0.025 %	[8]		
Static Error Band	≤ 0.05 % FS	≤ 0.05 % 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	7500 lbf	33 kN			
Load Limit(Side Force, F _X or F _Y)	5000 lbf	11.12 kN	[4]		
Load Limit(Bending Moment, M _X or M _Y)	2500 lbf-in	282 Nm	[4]		
Load Limit(Axial Torque, M _Z)	2500 lbf-in	282 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]		
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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