

Model Number 1203-12A		LOW PROFILE LOAD CELL			Revision: B ECN #: 43809	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range		1000 lbf	4448 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. 1203-12B - PC04E-10-6P Connector 1203-12C - PT02E-12-8P Connector 1203-12D - 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		3.5 kHz	3.5 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]		
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		1500 lbf	6672 N			
Load Limit(Side Force, F _X or F _Y)		500 lbf	2224 N	[4]		
Load Limit(Bending Moment, M _X or M _Y)		500 lbf-in	56 Nm	[4]		
Load Limit(Axial Torque, M _Z)		500 lbf-in	56 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		0.001 in	0.025 mm			
Electrical Connector		PT02E-10-6P	PT02E-10-6P			
<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>						



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