Model Number	LOW PROFILE LOAD CELL	Revision: B
1203-13A		ECN #: 43809

Performance	**ENGLISH**	**SI**	
Measurement Range	2000 lbf	8896 N	[6][7]
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]
Environmental			
Overload Limit	3000 lbf	13 kN	
Load Limit(Side Force, F_X or F_Y)	1000 lbf	4448 N	[4]
Load Limit(Bending Moment, M_X or M_Y)	1000 lbf-in	113 Nm	[4]
Load Limit(Axial Torque, M_Z)	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]
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	0.03 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.

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

1203-13B - PC04E-10-6P Connector

1203-13C - PT02E-12-8P Connector

1203-13D - PC01E-12-8P Connector

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

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

Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:
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