

Model Number M1204-13A	LOW PROFILE LOAD CELL	Revision: A ECN #: 43809
----------------------------------	------------------------------	-----------------------------

	ENGLISH	SI	
Performance			
Measurement Range	50 klbf	222 kN	[6][7]
Sensitivity(± 10 %)(RO)	4.0 mV/V	4.0 mV/V	[3][1]
Non-Linearity	≤ 0.05 % FS	≤ 0.05 % FS	[6][8]
Hysteresis	≤ 0.06 % FS	≤ 0.06 % 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	15 kHz	15 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			
Overload Limit	75 klbf	334 kN	
Load Limit(Side Force, F _X or F _Y)	25 klbf	111 kN	[4]
Load Limit(Bending Moment, M _X or M _Y)	25 klbf-in	2825 Nm	[4]
Load Limit(Axial Torque, M _Z)	25 klbf-in	2825 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)	6.06 in x 3.50 in	153.9 mm x 88.9 mm	[9]
Weight	21 lb	9.53 kg	
Mounting Thread	No English Equivalent	M33 x 2.0 4H	
Housing Material	Painted Steel	Painted Steel	
Sensing Element	Strain Gage	Strain Gage	
Mounting Torque	1400 lbf-in	158 Nm	
Deflection at Full Scale Capacity	0.002 in	0.05 mm	
Electrical Connector	PT02E-10-6P	PT02E-10-6P	

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.

M1204-13B - PC04E-10-6P Connector

M1204-13C - PT02E-12-8P Connector

M1204-13D - 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 084A101
 [9]See Outline Drawing 49932 for Complete Dimensions

OPTIONAL ACCESSORIES:

Model 084A90 Connector Shroud
 Model 181-012A PT06A-10-6S(SR)
 Model 8311-01-10A CABLE
 Model M084A101 TENSION LOAD BASE W/ M33X2 THD.

Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:
Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	59224

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.



PCB Load & Torque, Inc.
24350 Indoplex Circle
Farmington Hills, MI 48335
UNITED STATES
Phone: 866-684-7107
Fax: 716-684-0987
E-Mail: ltinfo@pcbloadtorque.com
Web site:
<http://www.pcbloadtorque.com>