


Model Number 1381-02A		ROD END LOAD CELL			Revision: D ECN #: 43827											
Performance		<u>ENGLISH</u>	<u>SI</u>		OPTIONAL VERSIONS											
Measurement Range	10 klbF	44 kN	[5]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.												
Sensitivity(± 10 %)	2 mV/V	2 mV/V	[6]													
Non-Linearity	≤ 0.25 % FS	≤ 0.25 % FS														
Hysteresis	≤ 0.15 % FS	≤ 0.15 % FS														
Non-Repeatability	≤ 0.05 %RO	≤ 0.05 %RO														
Resonant Frequency	9 kHz	9 kHz														
Environmental				NOTES: [1]Nominal. [2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [3]Singularly applied, i.e. no other extraneous loads. [4]Over compensated operating temperature range. [5]FS - Full Scale. [6]RO - Rated Output. [7]See Outline Drawing 45728 for complete dimensions.												
Overload Limit	15 klbF	67 kN														
Load Limit(Side Force, F _X or F _Y)	1400 lbf	6228 N	[3]													
Load Limit(Bending Moment, M _X or M _Y)	4000 inf-lb	451 Nm	[3]													
Load Limit(Axial Torque, M _Z)	4500 inf-lb	508 Nm	[3]													
Temperature Range(Operating)	-20 to +200 °F	-28 to +93 °C														
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C														
Temperature Effect on Output(Maximum)	± 0.01 %Reading/°F	± 0.018 %Reading/°C	[4]	OPTIONAL ACCESSORIES: Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE												
Temperature Effect on Zero Balance(Maximum)	± 0.005 %FS/°F	± 0.009 %FS/°C	[4]													
Electrical																
Bridge Resistance	350 Ohm	350 Ohm	[1]													
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Entered: AP</td> <td>Engineer: PE</td> <td>Sales: JC</td> <td>Approved: JSD</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td style="text-align: center;">45859</td> </tr> </table>			Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	45859
Entered: AP	Engineer: PE	Sales: JC	Approved: JSD				Spec Number:									
Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	45859												
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm														
Zero Balance	≤ 1 % FS	≤ 1 % FS														
Output Polarity	Positive	Positive														
Output Polarity	+Tension	+Tension														
Physical				<p>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</p> 												
Size (Diameter x Height)	1.50 in x 4.50 in	38.1 mm x 114.3 mm	[7]													
Weight	1.1 lb	500 g														
Mounting Thread	1 - 14 Male	No Metric Equivalent														
Mounting Thread	1 - 14 Female	No Metric Equivalent														
Cover Material	Anodized Aluminum	Anodized Aluminum														
Sensing Element	Strain Gage	Strain Gage														
Deflection at Full Scale Capacity	0.0022 in	0.056 mm														
Electrical Connector	PT02E-10-6P	PT02E-10-6P														
<p><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></p>																