

Model Number 1381-01A		ROD END LOAD CELL		Revision: D ECN #: 43827
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range	5000 lbf	22 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	10 kHz	10 kHz		
Environmental				
Overload Limit	7500 lbf	33 kN		
Load Limit(Side Force, F _X or F _Y)	800 lbf	3559 N	[3]	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.
Load Limit(Bending Moment, M _X or M _Y)	2500 inf-lb	282 Nm	[3]	
Load Limit(Axial Torque, M _Z)	1900 inf-lb	214 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]	
Temperature Effect on Zero Balance(Maximum)	± 0.005 %FS/°F	± 0.009 %FS/°C	[4]	
Electrical				OPTIONAL ACCESSORIES: Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE
Bridge Resistance	350 Ohm	350 Ohm	[1]	Entered: AP Engineer: PE Sales: JC Approved: JSD Spec Number:
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm		Date: 2/17/2015 Date: 2/17/2015 Date: 2/17/2015 Date: 2/17/2015 45858
Zero Balance	≤ 1 % FS	≤ 1 % FS		<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>
Output Polarity	Positive	Positive		
Output Polarity	+Tension	+Tension		
Physical				
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	0.0009 in	0.023 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>				



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