

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		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(Side Force, F _X or F _Y)		800 lbf	3559 N	[3]												
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]	<table><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>45858</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	45858
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Excitation Voltage(Recommended)		10 VDC	10 VDC	[2]												
Insulation Resistance		>5x10 ⁹ Ohm	>5x10 ⁹ Ohm													
Zero Balance		≤ 1 % FS	≤ 1 % FS													
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													
<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>																



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