

Model Number 1380-02A		ROD END LOAD CELL		Revision: D ECN #: 43827
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range	1000 lbf	4448 N	[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	1500 lbf	6672 N		
Load Limit(Side Force, F _X or F _Y)	250 lbf	1112 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 45488 for complete dimensions.
Load Limit(Bending Moment, M _X or M _Y)	750 inf-lb	85 Nm	[3]	
Load Limit(Axial Torque, M _Z)	650 inf-lb	73 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 45842
Zero Balance	≤ 1 % FS	≤ 1 % FS		<p style="text-align: center;">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 4.25 in	38.1 mm x 107.9 mm	[7]	
Weight	0.5 lb	227 g		
Mounting Thread	3/4 - 16 Male	No Metric Equivalent		
Mounting Thread	3/4 - 16 Female	No Metric Equivalent		
Cover Material	Anodized Aluminum	Anodized Aluminum		
Sensor Material	Anodized Aluminum	Anodized Aluminum		
Sensing Element	Strain Gage	Strain Gage		
Deflection at Full Scale Capacity	0.0006 in	0.015 mm		
Electrical Connector	PT02E-10-6P	PT02E-10-6P		
<p><i>All specifications are at room temperature unless otherwise specified.</i> <i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i></p>				



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029