


Model Number 1380-03A		ROD END LOAD CELL			Revision: D ECN #: 43827	
Performance	ENGLISH	SI			OPTIONAL VERSIONS	
Measurement Range	2000 lbf	8896 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	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 45488 for complete dimensions.		
Overload Limit	3000 lbf	13 kN				
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)	1250 inf-lb	141 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]	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 45843		
Zero Balance	≤ 1 % FS	≤ 1 % FS				
Output Polarity	Positive	Positive		 <p>PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: linfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com</p>		
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	1.0 lb	454 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	0.0005 in	0.013 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>						