

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					
Overload Limit	3000 lbf	13 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 45488 for complete dimensions.
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]		
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 4.25 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			
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.					
				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
				45843	
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