


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					NOTES:	
Overload Limit	7500 lbf	33 kN			[1]Nominal.	
Load Limit(Side Force, F _X or F _Y)	800 lbf	3559 N	[3]		[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.	
Load Limit(Bending Moment, M _X or M _Y)	2500 inf-lb	282 Nm	[3]		[3]Singularly applied, i.e. no other extraneous loads.	
Load Limit(Axial Torque, M _Z)	1900 inf-lb	214 Nm	[3]		[4]Over compensated operating temperature range.	
Temperature Range(Operating)	-20 to +200 °F	-28 to +93 °C			[5]FS - Full Scale.	
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C			[6]RO - Rated Output.	
Temperature Effect on Output(Maximum)	± 0.01 %Reading/°F	± 0.018 %Reading/°C	[4]		[7]See Outline Drawing 45728 for complete dimensions.	
Temperature Effect on Zero Balance(Maximum)	± 0.005 %FS/°F	± 0.009 %FS/°C	[4]			
Electrical					OPTIONAL ACCESSORIES:	
Bridge Resistance	350 Ohm	350 Ohm	[1]		Model 181-012A PT06A-10-6S(SR)	
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]		Model 8311-01-10A CABLE	
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm				
Zero Balance	≤ 1 % FS	≤ 1 % FS				
Output Polarity	Positive	Positive				
Output Polarity	+Tension	+Tension				
Physical					Entered: AP Engineer: PE Sales: JC Approved: JSD Spec Number:	
Size (Diameter x Height)	1.50 in x 4.50 in	38.1 mm x 114.3 mm	[7]		Date: 2/17/2015 Date: 2/17/2015 Date: 2/17/2015 Date: 2/17/2015 45858	
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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