


Model Number 1380-02A		ROD END LOAD CELL			Revision: D ECN #: 43827
Performance	ENGLISH	SI			OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	1000 lbf	4448 N	[5]		
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]		
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	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			
<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>					
				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
				45842	
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