

Model Number 1630-06C		STRAIN GAGE LOAD CELL			Revision: D ECN #: 43825	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range		250 lb	1112 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		≤ 0.05 % FS	≤ 0.05 % FS			
Hysteresis		≤ 0.03 % FS	≤ 0.03 % FS			
Non-Repeatability		≤ 0.02 %RO	≤ 0.02 %RO			
Resonant Frequency		2.2 kHz	2.2 kHz			
Creep(in 20 minutes)		≤ 0.08 %	≤ 0.08 %			
Environmental					NOTES:	
Overload Limit		375 lb	1668 N		[1]Nominal.	
Load Limit(Side Force, F _X or F _Y)		25 lb	111.2 N	[3]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.	
Load Limit(Bending Moment, M _X or M _Y)		50 in-lb	5.6 Nm	[3]	[3]Singularly applied, i.e. no other extraneous loads.	
Load Limit(Axial Torque, M _Z)		50 in-lb	5.6 Nm	[3]	[4]Over compensated operating temperature range.	
Temperature Range(Operating)		0 to +200 °F	-18 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)		± 0.0008 %Reading/°F	± 0.0015 %Reading/°C	[4]	[7]See Outline Drawing 46137 for Complete Dimensions	
Temperature Effect on Zero Balance(Maximum)		± 0.0015 %FS/°F	± 0.027 %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			
Physical						
Size (Length x Height x Width)		2.00 in x 2.50 in x 0.625 in	51 mm x 64 mm x 16 mm	[7]		
Weight		0.23 lb	104 g			
Mounting Thread		1/4-28 thread	No Metric Equivalent			
Housing Material		Aluminum	Aluminum			
Sensing Element		Strain Gage	Strain Gage			
Deflection at Full Scale Capacity		0.0025 in	0.05 mm			
Electrical Connector		10 ft - Integrated Cable	10 ft - Integrated Cable			
Electrical Connection Position		Side	Side			
<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>						
				Entered: AP	Engineer: PE	
				Sales: JC	Approved: JSD	Spec Number:
				Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015
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