

Model Number 1631-06C	STRAIN GAGE LOAD CELL			Revision: E ECN #: 43825										
Performance	ENGLISH	SI		OPTIONAL VERSIONS										
Measurement Range	5000 lb	22.2 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	≤ 0.05 % FS	≤ 0.05 % FS												
Hysteresis	≤ 0.03 % FS	≤ 0.03 % FS												
Non-Repeatability	≤ 0.02 %RO	≤ 0.02 %RO												
Resonant Frequency	2.5 kHz	2.5 kHz												
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %												
Environmental														
Overload Limit	7500 lb	33.4 kN												
Load Limit(Side Force, F _X or F _Y)	500 lb	2224 N	[3]											
Load Limit(Bending Moment, M _X or M _Y)	1250 in-lb	141.2 Nm	[3]											
Load Limit(Axial Torque, M _Z)	1250 in-lb	141.2 Nm	[3]											
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C												
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C												
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0015 %Reading/°C	[4]											
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												
Output Polarity	+Tension	+Tension												
Physical														
Size (Length x Height x Width)	2.50 in x 3.50 in x 1.50 in	64 mm x 89 mm x 38 mm	[7]											
Weight	2.85 lb	1.3 g												
Mounting Thread	5/8-18 Thread	No Metric Equivalent												
Housing Material	Nickel Plated Steel	Nickel Plated Steel												
Sensing Element	Strain Gage	Strain Gage												
Deflection at Full Scale Capacity	0.003 in	0.05 mm												
Electrical Connector	10 ft - Integrated Cable	10 ft - Integrated Cable												
Electrical Connection Position	Side	Side												
<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>														
<p>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 46138 for Complete Dimensions</p>														
<table border="1"> <tr> <td>Entered: AP</td> <td>Engineer: PE</td> <td>Sales: JC</td> <td>Approved: JSD</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>46000</td> </tr> </table>					Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	46000
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