

Model Number 1631-04C	STRAIN GAGE LOAD CELL			Revision: E ECN #: 43825
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range	2000 lb	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	≤ 0.05 % FS	≤ 0.05 % FS		
Hysteresis	≤ 0.03 % FS	≤ 0.03 % FS		
Non-Repeatability	≤ 0.02 %RO	≤ 0.02 %RO		
Resonant Frequency	2.4 kHz	2.4 kHz		
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %		
Environmental				NOTES:
Overload Limit	3000 lb	13.3 kN		[1]Nominal.
Load Limit(Side Force, F _X or F _Y)	200 lb	890 N	[3]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Load Limit(Bending Moment, M _X or M _Y)	400 in-lb	45.2 Nm	[3]	[3]Singularly applied, i.e. no other extraneous loads.
Load Limit(Axial Torque, M _Z)	400 in-lb	45.2 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 46138 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]	Entered: AP
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	Engineer: PE
Insulation Resistance	>5x10 ⁹ Ohm	>5x10 ⁹ Ohm		Sales: JC
Zero Balance	± 1 % FS	± 1 % FS		Approved: JSD
Output Polarity	+Tension	+Tension		Spec Number:
Physical				Date: 2/16/2015
Size (Length x Height x Width)	2.00 in x 3.0 in x 1.0 in	51.0 mm x 76.2 mm x 25.4 mm	[7]	Date: 2/16/2015
Weight	1.2 lb	544 g		Date: 2/16/2015
Mounting Thread	1/2-20 Thread	No Metric Equivalent		Date: 2/16/2015
Housing Material	Nickel Plated Steel	Nickel Plated Steel		45999
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		
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.				
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