Model Number	STRAIN GAGE LOAD CELL	Revision: A
045000-02051		ECN #: 45883

Performance	**ENGLISH**	**SI**	
Measurement Range	11.2 lb	50 N	[5]
Sensitivity(± 10 %)	2 mV/V	2 mV/V	[6]
Non-Linearity	≤ 0.15 % FS	≤ 0.15 % FS	
Hysteresis	≤ 0.15 % FS	≤ 0.15 % FS	
Non-Repeatability	≤ 0.05 %RO	≤ 0.05 %RO	
Resonant Frequency	1.5 kHz	1.5 kHz	
Creep(in 20 minutes)	≤ 0.02 %	≤ 0.02 %	
Environmental			
Overload Limit	17 lb	75 N	
Load Limit(Side Force, F_X or F_Y)	1.1 lb	5 N	[3]
Load Limit(Bending Moment, M_X or M_Y)	10 in-lb	1 Nm	[3]
Load Limit(Axial Torque, M_Z)	10 in-lb	1 Nm	[3]
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C	
Temperature Range(Compensated)	+75 to +150 °F	+21 to +65 °C	
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[4]
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C	[4]
Electrical			
Bridge Resistance	5000 Ohm	5000 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)	2.00 in x 2.50 in x 0.75 in	51 mm x 64 mm x 19 mm	
Weight	0.24 lb	109 g	
Housing Material	Aluminum	Aluminum	
Sensing Element	Strain Gage	Strain Gage	
Deflection at Full Scale Capacity	0.002 in	0.05 mm	
Electrical Connector	6 ft. Integrated Cable	6 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.

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.

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.

Entered: LK	Engineer: PE	Sales: DM	Approved: JM	Spec Number:
Date: 9/26/2016	Date: 9/26/2016	Date: 9/26/2016	Date: 9/26/2016	**52401**

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