

Model Number 054216-01144	STRAIN GAGE LOAD CELL	Revision: A ECN #: 37515
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Measurement Range(Full Scale Capacity)	31,473 lb	140 kN	[1]
Sensitivity(output at rated capacity)	1.50 mV/V	1.50 mV/V	[1][4]
Non-Linearity	± 5 % FS	± 5 % FS	[4]
Hysteresis	± 5 % FS	± 5 % FS	[4]
Non-Repeatability	± 2 % FS	± 2 % FS	[4]
Resonant Frequency	10 kHz	10 kHz	
Environmental			
Overload Limit	47,210 lb	210 kN	
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C	
Temperature Range(Compensated)	N/A °F	N/A °C	
Temperature Effect on Output(Maximum)	± 0.02 %Reading/°F	± 0.036 %Reading/°C	[3]
Temperature Effect on Zero Balance(Maximum)	± 0.02 %FS/°F	± 0.036 %FS/°C	[4]
Electrical			
Bridge Resistance	350 ohm	350 ohm	[1]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]
Output Polarity(Compression)	Positive	Positive	
Physical			
Size (Diameter x Height)	1.348 in x 0.525 in	34.2 mm x 13.3 mm	
Fastener Size	0.630 in	16 mm	
Through Hole Diameter	0.636 in	16.16 mm	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	pigtail ends	pigtail ends	
Electrical Connection Position	Side	Side	
<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>			
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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] Over compensated operating temperature range.
 [4] FS - Full Scale.

Entered: DMW	Engineer: JSD	Sales: JC	Approved: GLB	Spec Number:
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