

Model Number  
054216-01144

# LOAD WASHER LOAD CELL - M16 FASTENER

Revision: D  
ECN #: 53433

	ENGLISH	SI	
<b>Performance</b>			
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][2]
Non-Linearity	± 5 % FS	± 5 % FS	[2]
Hysteresis	± 5 % FS	± 5 % FS	[2]
Non-Repeatability	± 2 % FS	± 2 % FS	[2]
Resonant Frequency	10 kHz	10 kHz	
<b>Environmental</b>			
Overload Limit	47,210 lb	210 kN	
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)	± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[3]
Temperature Effect on Zero	± 0.002 %FS/°F	± 0.0018 %FS/°C	[2]
Balance(Maximum)			
<b>Electrical</b>			
Bridge Resistance	350 Ohm	350 Ohm	[1]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[4]
Zero Balance	≤ 1 % FS	≤ 1 % FS	
Output Polarity(Compression)	Positive	Positive	
Isolation Resistance	≥ 1G Ohm	≥ 1G Ohm	
<b>Physical</b>			
Size (Height x Diameter)	0.525 in x 1.350 in	13.34 mm x 34.29 mm	[5]
Fastener Size	NO EQUIV	16 mm	
Through Hole Diameter	0.636 in	16.15 mm	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	Pigtail Ends	Pigtail Ends	
Electrical Connection Position	Side	Side	

### 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]FS - Full Scale.
- [3]Over compensated operating temperature range.
- [4]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [5]See Outline Drawing (LT30776) for Complete Dimensions

### SUPPLIED ACCESSORIES:

- Model 7122R-007502 8G16B 75K .025% GENER RES 3PPM (1)
- Model 92160-032315 M16-5/8" Hardened Washer - Top (1)
- Model 92160-032316 M16- 5/8" Hardened Washer - Bottom (1)

### OPTIONAL ACCESSORIES:

- Model 080922-01000 MODEL 922 DIGITAL PEAK METER
- Model 080962-01000 MODEL 962 DATA RECORDER

Entered: ND	Engineer: PE	Sales: DM	Approved: JM	Spec Number:
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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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