

# Low-frequency accelerometer

## 797L-3

### SPECIFICATIONS

<b>Sensitivity, <math>\pm 5\%</math>, 25°C</b>		200 mV/g
<b>Acceleration range<sup>1</sup></b>		25 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response, nominal:</b>	$\pm 5\%$	0.6 - 1,700 Hz
	$\pm 10\%$	0.4 - 2,500 Hz
	$\pm 3$ dB	0.2 - 5,000 Hz
<b>Resonance frequency</b>		18 kHz
<b>Transverse sensitivity, max</b>		7% of axial
<b>Temperature response:</b>	-50°C	-10%
	+120°C	+10%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode <sup>1,2</sup>		2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>		
Broadband	2.5 Hz to 25 kHz	12 $\mu$ g
Spectral	2 Hz	2.0 $\mu$ g/ $\sqrt{\text{Hz}}$
	10 Hz	0.6 $\mu$ g/ $\sqrt{\text{Hz}}$
	100 Hz	0.2 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$
<b>Bias output voltage</b>		10 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Temperature range</b>		-50° to +120°C
<b>Vibration limit</b>		250 g peak
<b>Shock limit</b>		2,500 g peak
<b>Electromagnetic sensitivity, equiv. g</b>		5 $\mu$ g/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity</b>		0.001 g/ $\mu$ strain
<b>Weight</b>		148 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 captive screw
<b>Output connector</b>		2 pin, MIL-C-5015 style
<b>Mating connector</b>		R6 type
<b>Recommended cabling</b>		J9T2, two-conductor shielded, Tefzel <sup>®</sup> jacket, 30 pF/ft.

**Notes:** <sup>1</sup> To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

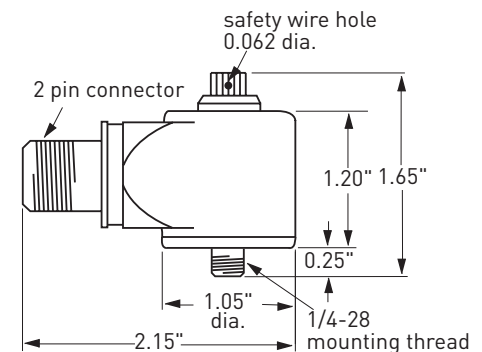
<sup>2</sup> A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C.

**Accessories supplied:** 1/4-28 captive screw; calibration data



### Key features

- High sensitivity
- Ultra low noise electronics
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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