Low-frequency accelerometer

797L-3

SPECIFICATIONS

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

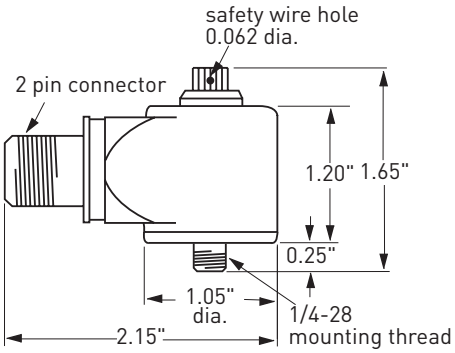
Notes: [1] To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

[2] 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

CE

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

Wilcoxon Sensing Technologies
An Amphenol Company

8435 Progress Drive
Frederick, MD 21701
USA

Tel: +1 (301) 330-8811
Fax: +1 (301) 330-8873
info@wilcoxon.com

buy.wilcoxon.com
www.wilcoxon.com

98597 Rev.C.2 02/19