

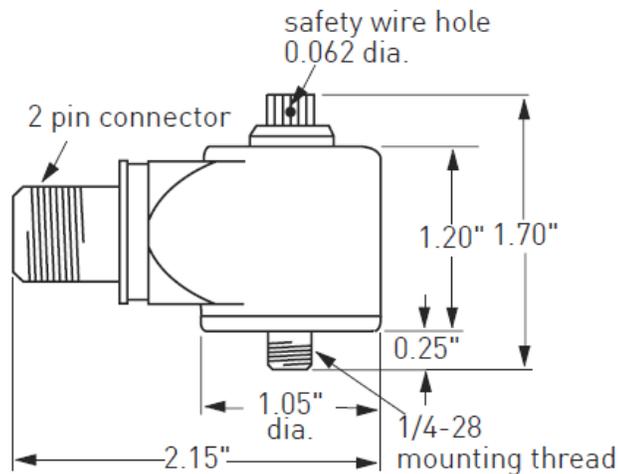
Low profile, low-frequency industrial IsoRing[®] accelerometer 797L-3



Key features

- High sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Low frequency capable
- Hermetically sealed
- ESD protection
- Reverse wiring protection

Certifications



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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Wilcoxon Sensing Technologies
An Amphenol Company

Low profile, low-frequency industrial IsoRing[®] accelerometer 797L-3

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25° C	200 mV/g
Acceleration range ¹	25 g peak
Amplitude nonlinearity	1%
Frequency response, nominal:	
$\pm 5\%$	0.6 - 1,700 Hz
$\pm 10\%$	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%
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 μ g
Spectral 2 Hz	2.0 μ g/ $\sqrt{\text{Hz}}$
100 Hz	0.6 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	0.2 μ g/ $\sqrt{\text{Hz}}$
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 μ g/gauss
Sealing	hermetic
Base strain sensitivity	0.001 g/ μ strain
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

Contact

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Accessories supplied:

- Calibration data
- 1/4-28 captive screw

Accessories available:

R6SL-J9T2-XX splash-proof cable assembly, magnetic mounting bases, SF8-2 cementing stud, power supplies, amplifiers, signal conditioners

Options: Stainless steel flexible hose

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 (please consult Wilcoxon customer service).

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

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