



Wilcoxon Research model 797 Premium, PiezoFET®, low profile IsoRing accelerometer

Dynamic

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range, VDC >25V	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
±5%	3 - 5,000 Hz
±10%	2 - 7,000 Hz
±3 dB	1 - 12,000 Hz
Resonance frequency	26 kHz
Transverse sensitivity, max.	5% of axial
Temperature response:	
-50°C	-15%
+120°C	+15%

Electrical

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	600 µg
Spectral	10 Hz	8 µg/√Hz
	100 Hz	5 µg/√Hz
	1000 Hz	5 µg/√Hz
Output impedance, max	100 Ω	
Bias output voltage	12 VDC	
Grounding	case isolated, internally shielded	

Environmental

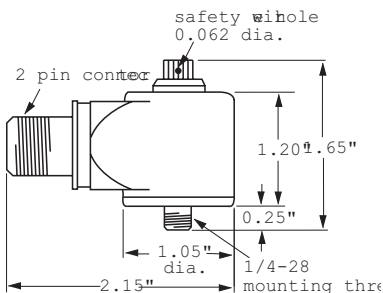
Temperature range	-50 to 120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Sealing	hermetic
Base strain sensitivity	0.002 g/µstrain

Physical

Sensing element design	PZT ceramic / compression
Weight	138 grams
Case material	316L stainless steel
Mounting	1/4 - 28 captive socket head screw
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cable	J10 / J9T2A

Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounting in any orientation



Connector pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: #12105-01 captive socket head (metric stud available upon request); calibration data (level 3)

Options: Intrinsic safety certifications (consult factory)

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