

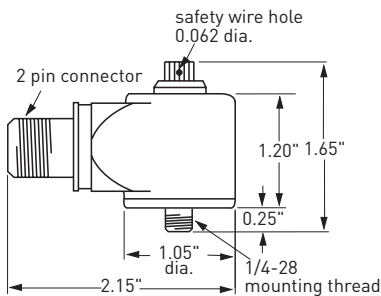


## Wilcoxon Research model 797 Premium, PiezoFET<sup>®</sup>, low profile IsoRing accelerometer



### Features

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



### 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 / shear
Weight.....	138 g
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

### Connections

Function	Connector pin
ground	shell
power/ signal	A
common	B

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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