

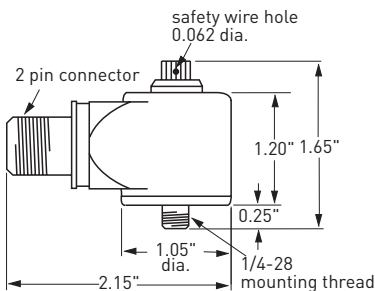


## Model 797L Low profile, low frequency IsoRing® accelerometer



### Features

- High sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Low pass filtered to attenuate high frequencies
- Hermetic seal
- ESD protection
- Reverse wiring protection



### Dynamic

Sensitivity, ±5%, 25°C .....	500 mV/g
Acceleration range .....	10 g peak
Amplitude nonlinearity .....	1%
Frequency response:	
-5% .....	0.6 - 850 Hz
-10% .....	0.4 - 1,500 Hz
-3 dB .....	0.2 - 3,700 Hz
Resonance frequency .....	18 kHz
Transverse sensitivity, max .....	7% of axial
Temperature response:	
-50°C .....	-8%
+120°C .....	+5%

### 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 .....	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

### Environmental

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

### Physical

Sensing element design .....	PZT ceramic / shear
Weight .....	148 grams
Case material .....	316L stainless steel
Mounting .....	1/4-28 captive socket head screw
Mating connector .....	R6 type
Recommended cabling .....	J9T2A

Connector pin	Function	Cable conductor color
shell	ground	shield
A	power/ signal	white
B	common	black

Accessories supplied: #12105-01 captive socket head (International customers specify mounting requirements); calibration data (level 3)

Options: Intrinsic safety certification (consult factory)

Wilcoxon Research Inc  
20511 Seneca Meadows Parkway  
Germantown, MD 20876  
USA

Tel: 301 330 8811  
Fax: 301 330 8873  
Email: wilcoxon@meggitt.com

www.meggitt.com

