

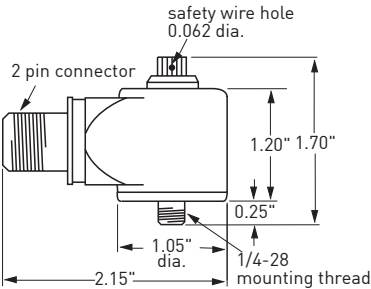


Model 797L Low profile, low frequency IsoRing® accelerometer



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

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Optional safety approvals

