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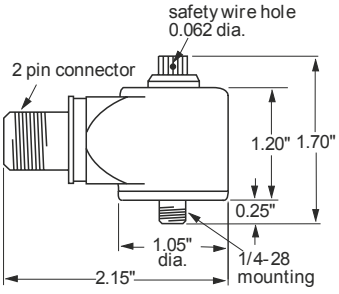
ALTHERIS SENSORS & CONTROLS

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