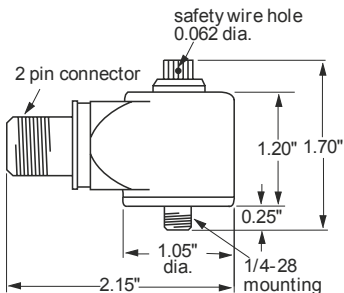




Model 797 Premium, PiezoFET®, low profile IsoRing accelerometer

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	50 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.....	-5%
+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.....	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
Electromagnetic sensitivity, equiv. g.....	30 µg/gauss
Sealing	hermetic
Base strain sensitivity.....	0.002 g/µstrain

Physical

Sensing element design.....	PZT ceramic / shear
Weight	135 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 cabling.....	J10 / J9T2A

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

Accessories supplied: #12105-01 captive socket head
(metric studs available upon request); calibration data (level
3) Options: Intrinsic safety certifications

