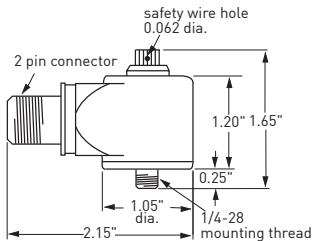


FireFET® Model 797-6 High temperature, low profile, general purpose accelerometer



Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounts in any orientation
- 150°C operation



Dynamic

Sensitivity, ±10%, 25°C	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity	1%
Frequency response:	
±5%	4 - 5,000 Hz
±10%	3 - 7,000 Hz
±3 dB	1.0 - 11,000 Hz
Resonance frequency	20 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
-50°C	-5%
+0°C	+2%
+150°C	-5%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 4 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz.....	0.3 mg
	25°C 150°C
Spectral at (µg/√Hz):	
10 Hz.....	10 30
100 Hz.....	3 10
1,000 Hz.....	2 6
Output impedance, max.....	100 Ω
Bias output voltage:	
at 25°C	12 VDC
at 150°C	11 VDC
Grounding	case isolated, internally shielded

Environmental

Temperature range.....	-50 to 150°C
Vibration limit	500 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	145 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

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: 1/4 - 28 captive screw (International customers specify mounting requirements); calibration data (level 3).

We reserve the right to vary the foregoing details without prior notice

98251 Rev.B.3 012/07