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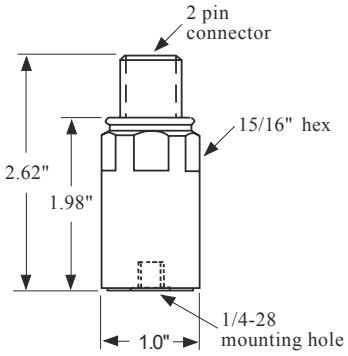
ALTHERIS SENSORS & CONTROLS

FireFET® Model 793-6
High temperature, general purpose accelerometer

Features
- High temperature operation
- Rugged design
- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Reverse wiring protection
- 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	
±3dB	1 - 12,000 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, (µg/√Hz):			
Broadband	2.5 Hz to 25 kHz	0.3 mg	
		25°C	150°C
Spectral at	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 (mounting surface)	–50 to 150°C
Vibration limit	500 g peak
Shock limit	2,500 g peak
Electromagnetic sensitivity, equiv. g	15 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.0005 g/µstrain

Physical

Sensing element design	PZT ceramic / compression
Weight	135 grams
Case material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J9T2A

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

Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); calibration data (level 3).