

High temperature accelerometer

797-6

SPECIFICATIONS

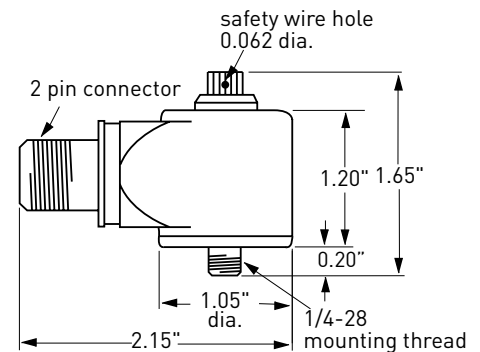
Sensitivity, $\pm 10\%$, 25°C		100 mV/g	
Acceleration range		50 g peak	
Amplitude nonlinearity		1%	
Frequency response:	$\pm 5\%$	4 - 5,000 Hz	
	$\pm 10\%$	3 - 7,000 Hz	
	± 3 dB	1 - 11,000 Hz	
Resonance frequency		18.5 kHz	
Transverse sensitivity, max		5% of axial	
Temperature response:	-50°C	-5%	
	0°C	+2%	
	+120°C	-5%	
Power requirement:			
Voltage source		18 - 30 VDC	
Current regulating diode		2 - 4 mA	
Electrical noise, equiv. g, nominal:			
Broadband		2.5 Hz to 25 kHz	0.3 mg
			at 25°C
Spectral	10 Hz		10 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz		3 $\mu\text{g}/\sqrt{\text{Hz}}$
	1,000 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$
			at 150°C
			30 $\mu\text{g}/\sqrt{\text{Hz}}$
			10 $\mu\text{g}/\sqrt{\text{Hz}}$
			6 $\mu\text{g}/\sqrt{\text{Hz}}$
Output impedance, max		100 Ω	
Bias output voltage:	25°C	12 VDC	
	150°C	11 VDC	
Grounding		case isolated, internally shielded	
Temperature range		-50° to +150°C	
Vibration limit		500 g peak	
Shock limit		2,500 g peak	
Electromagnetic sensitivity, equiv. g		5 $\mu\text{g}/\text{gauss}$	
Sealing		hermetic	
Base strain sensitivity, max		0.001 g/ μstrain	
Sensing element design		PZT, 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	
Recommended cabling		J9T2A	

Accessories supplied: 1/4-28 captive screw; calibration data (level 3)



Key features

- 150°C operation
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.