

High temperature accelerometer

797-6



SPECIFICATIONS

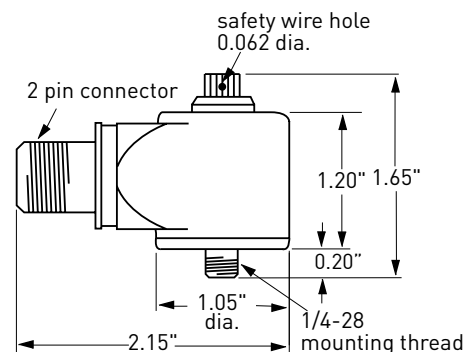
Sensitivity, $\pm 10\%$, 25°C		100 mV/g
Acceleration range		50 g peak
Amplitude nonlinearity		1%
Frequency response:	$\pm 5\%$	4 - 5,000 Hz
	$\pm 10\%$	3 - 7,000 Hz
	± 3 dB	1 - 11,000 Hz
Resonance frequency		18.5 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-50°C	-5%
	0°C	+2%
	+120°C	-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.
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