

# High temperature accelerometer

## 797-6

### SPECIFICATIONS

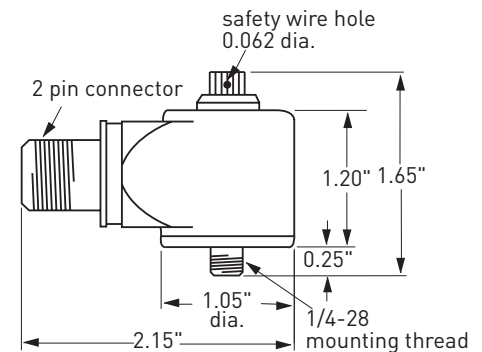
<b>Sensitivity, <math>\pm 10\%</math>, 25°C</b>		100 mV/g	
<b>Acceleration range</b>		50 g peak	
<b>Amplitude nonlinearity</b>		1%	
<b>Frequency response:</b>	$\pm 5\%$	4 - 5,000 Hz	
	$\pm 10\%$	3 - 7,000 Hz	
	$\pm 3$ dB	1 - 11,000 Hz	
<b>Resonance frequency</b>		18.5 kHz	
<b>Transverse sensitivity, max</b>		5% of axial	
<b>Temperature response:</b>	-50°C	-5%	
	0°C	+2%	
	+120°C	-5%	
<b>Power requirement:</b>			
Voltage source		18 - 30 VDC	
Current regulating diode		2 - 4 mA	
<b>Electrical noise, equiv. g, nominal:</b>			
<b>Broadband</b>		2.5 Hz to 25 kHz	0.3 mg
			<b>at 25°C</b>
<b>Spectral</b>	10 Hz		10 $\mu\text{g}/\sqrt{\text{Hz}}$
	100 Hz		3 $\mu\text{g}/\sqrt{\text{Hz}}$
	1,000 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$
			<b>at 150°C</b>
			30 $\mu\text{g}/\sqrt{\text{Hz}}$
			10 $\mu\text{g}/\sqrt{\text{Hz}}$
			6 $\mu\text{g}/\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$	
<b>Bias output voltage:</b>	25°C	12 VDC	
	150°C	11 VDC	
<b>Grounding</b>		case isolated, internally shielded	
<b>Temperature range</b>		-50° to +150°C	
<b>Vibration limit</b>		500 g peak	
<b>Shock limit</b>		2,500 g peak	
<b>Electromagnetic sensitivity, equiv. g</b>		5 $\mu\text{g}/\text{gauss}$	
<b>Sealing</b>		hermetic	
<b>Base strain sensitivity, max</b>		0.001 g/ $\mu\text{strain}$	
<b>Sensing element design</b>		PZT, shear	
<b>Weight</b>		145 grams	
<b>Case material</b>		316L stainless steel	
<b>Mounting</b>		1/4-28 captive socket head screw	
<b>Output connector</b>		2 pin, MIL-C-5015 style	
<b>Mating connector</b>		R6 type	
<b>Recommended cabling</b>		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.

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