

# General purpose accelerometer





## 797 series

### SPECIFICATIONS

<b>Sensitivity, <math>\pm 5\%</math>, 25°C</b>		100 mV/g
<b>Acceleration range, VDC &gt; 25 V</b>		80 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	$\pm 5\%$	3 - 5,000 Hz
	$\pm 10\%$	2 - 7,000 Hz
	$\pm 3$ dB	1 - 12,000 Hz
<b>Resonance frequency</b>		26 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>	-50°C	-15%
	+120°C	+15%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g:</b>		
Broadband	2.5 Hz to 25 kHz	600 $\mu$ g
Spectral	10 Hz	8 $\mu$ g/ $\sqrt{\text{Hz}}$
	100 Hz	5 $\mu$ g/ $\sqrt{\text{Hz}}$
	1,000 Hz	5 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$
<b>Bias output voltage</b>		12 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Temperature range</b>		-50° to +120°C
<b>Vibration limit</b>		500 g peak
<b>Shock limit</b>		5,000 g peak
<b>Sealing</b>		hermetic
<b>Base strain sensitivity</b>		0.002 g/ $\mu$ strain
<b>Sensing element design</b>		PZT, shear
<b>Weight</b>		138 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 captive socket head
<b>Output connector</b>		2 pin, MIL-C-5015 style
<b>Mating connector</b>		R6 type
<b>Recommended cabling</b>		J10 / J9T2A

**Accessories supplied:** #12105-01 captive socket head (metric mounting available); calibration data (level 3)

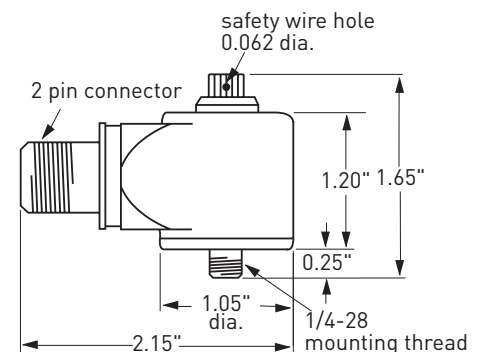
### Certifications

All 797 models	797E	797-33	797-35
	 Class I, II, III, T4 Div 1 Groups A, B, C, D, E, F, G Div 2 Groups A, B, C, D, F, G	 Class I, Div 1 Groups A, B, C, D	 II 1 G Ex ia IIC T4 Ga Tamb: -50°C to 120°C



### Key features

- Certified versions available for use in hazardous areas (models 797E, 797-33, 797-35)
- Radiation resistant options available (model 797R)
- Manufactured in ISO 9001 facility



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

For Hazardous area installations the transducer must be installed per 11537.

The model 797-35 transducer must not be subjected to an acceleration greater than 3200g.

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

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