

General purpose accelerometer





797 series

SPECIFICATIONS

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

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

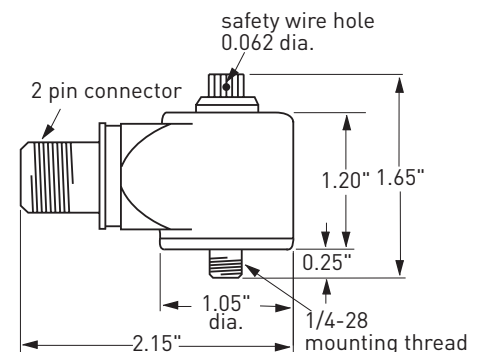
Certifications

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.