General purpose accelerometer

797 series



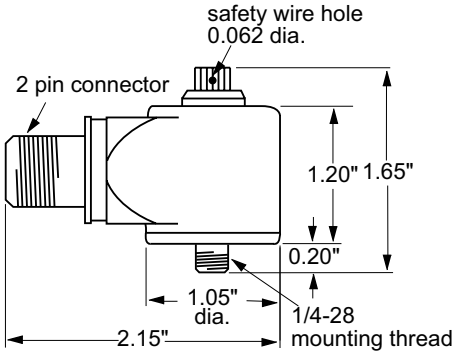
SPECIFICATIONS

Sensitivity, ±5%, 25°C		100 mV/g
Acceleration range, VDC > 25 V		80 g peak
Amplitude nonlinearity		1%
Frequency response:	**±5%**	3 - 5,000 Hz
	±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 µg
Spectral	**10 Hz**	8 µg/√Hz
	100 Hz	5 µg/√Hz
	1,000 Hz	5 µg/√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/µstrain
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)

Key features

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



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

Certifications

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

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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