Low-frequency accelerometer

797L series

SPECIFICATIONS

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range	10 g peak
Amplitude nonlinearity	1%
Frequency response: ±5% ±10% ±3 dB	0.6 - 850 Hz 0.4 - 1,500 Hz 0.2 - 3,700 Hz
Resonance frequency	18 kHz
Transverse sensitivity, max	7% of axial
Temperature response: -50°C +120°C	_8% +5%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 2 Hz 10 Hz 100 Hz	= 1 P9
Output impedance, max	100 Ω
Bias output voltage	10 VDC
Grounding	case isolated, internally shielded
Temperature range	–50° to +120°C
Vibration limit	250 g peak
Shock limit	2,500 g peak
Electromagnetic sensitivity, equiv. g	5 μg/gauss
Sealing	hermetic
Base strain sensitivity	0.001 g/µstrain
Sensing element design	PZT ceramic / shear
Weight	148 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head
Mating connector	R6 type

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

Certifications

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

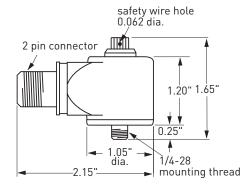






Key features

- Certified versions available for use in hazardous areas (models 797LE, 797L-33, 797L-35)
- · Ultra low noise electronics
- · Manufactured in ISO 9001 facility



Connections				
Function	Connector pin / cable			
i unction	conductor color			
power/signal	A / white			
common	B / black			
ground	shell / shield			

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

The model 797L-35 transducer must not be subjected to an acceleration greater than 1200g and must be mechanically protected so that it is not subjected to impacts greater than 2 J energy.

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