

**797L SERIES** Low-frequency accelerometer

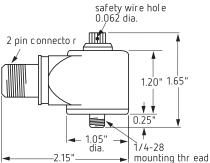
## SPECIFICATIONS

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	12 μg 2.0 μg/√Hz 0.6 μg/√Hz 0.2 μg/√Hz	
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	
Recommended cabling	J9T2A	



## **Key features**

· Certified versions available for use in hazardous areas (models 797LE, 797L-33, 797L-35)



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

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

## Certifications

All 797L models	797LE		797L-33	797L-35
CE		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	Ex ia IIC T4 Ga Tamb: -50°C to 120°C

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

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.

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SENSORS & CONTROLS

<ul> <li>Ultra low noise electronics</li> <li>Manufactured in ISO 9001 facility</li> </ul>
safety wire hole 0.062 dia. 2 pin connecto r 1.20" 1.65"