Low-frequency accelerometer

wilcoxon sensing technologies

797L series

SPECIFICATIONS

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range	10 g peak
Amplitude nonlinearity	1%
Frequency response: ±5%	0.6 - 850 Hz
±10%	0.4 - 1,500 Hz
±3 dB	0.2 - 3,700 Hz
Resonance frequency	18 kHz
Transverse sensitivity, max	7% of axial
Temperature response: -50°C	-8%
+120°C	+5%
Power requirement:	18 - 30 VDC
Voltage source Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	2 101111
Broadband 2.5 Hz to 25 kHz	12 μg
Spectral 2 Hz	2.0 µg/√Hz
10 Hz	0.6 μg/√Hz
100 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
Accessories cumplied: #12105.01 continue control ha	and (matric magniting available), calibration d

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

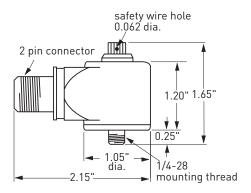
Certifications

All 797L models	797LE	797L-33	797L-35	
CE	APPROVED C, D, E,	oups A, B, F, G oups A, B,	Div 1 A, B, C, D	



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 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.