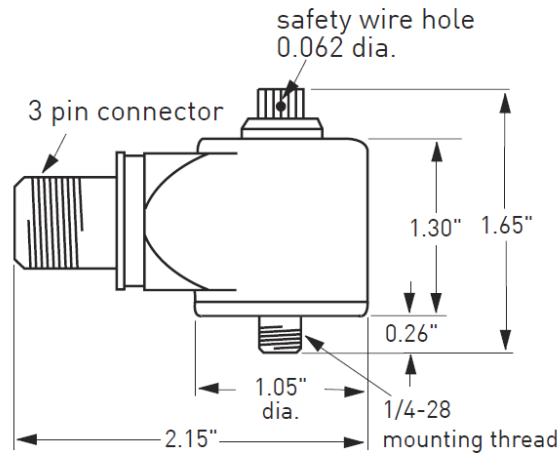


Low-frequency accelerometer with temperature sensor 797LT



Key features

- Senses both acceleration and temperature
- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Reverse wiring protection



Certifications



Connections	
Function	Connector pin
accelerometer, power / signal	A
accelerometer / temperature common	B
temperature sensor, power / signal	C
ground	shell

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

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Wilcoxon Sensing Technologies
An Amphenol Company

Low-frequency accelerometer with temperature sensor

797LT

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25° C	500 mV/g
Acceleration range	10 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 5\%$	0.6 - 850 Hz
$\pm 10\%$	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	-5%
+120° C	+5%
Temperature output sensitivity, $\pm 5\%$	10 mV/°K
Temperature measurement range	223 to 390° K (-50 to 120° C)
Voltage source	Accelerometer: 18 - 30 VDC Temperature sensor: 18 - 30 VDC
Current regulating diode	Accelerometer: 2 - 10 mA Temperature sensor: 2 - 4 mA
Electrical noise, equiv. g:	
Broadband	2.5 Hz to 25 kHz
Spectral	2 Hz
	100 Hz
	1,000 Hz
	12 μ g
	2.0 μ g/ $\sqrt{\text{Hz}}$
	0.6 μ g/ $\sqrt{\text{Hz}}$
	0.2 μ g/ $\sqrt{\text{Hz}}$
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 μ g/gauss
Sealing	hermetic
Base strain sensitivity	0.001 g/ μ strain
Sensing element design	PZT ceramic / shear
Weight	160 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head screw
Output connector	3 pin, MIL-C-5015 style
Mating connector	R6G type

Contact

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Accessories supplied:

- Calibration data (level 3)
- #12105-01 captive screw (metric mounting available)

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