

# Low-frequency dual output sensor

## 797LT

### SPECIFICATIONS

<b>Sensitivity, <math>\pm 5\%</math>, 25°C</b>		500 mV/g
<b>Acceleration range</b>		10 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	$\pm 5\%$	0.6 - 850 Hz
	$\pm 10\%$	0.4 - 1,500 Hz
	$\pm 3$ dB	0.2 - 3,700 Hz
<b>Resonance frequency</b>		18 kHz
<b>Transverse sensitivity, max</b>		7% of axial
<b>Temperature response:</b>	-50°C	-5%
	+120°C	+5%
<b>Temperature output sensitivity, <math>\pm 5\%</math></b>		10 mV/°K
<b>Temperature measurement range</b>		223° to 393°K (-50° to +120°C)
<b>Power requirement:</b>		<b>Accelerometer</b> <b>Temp sensor</b>
<b>Voltage source</b>		18 - 30 VDC      18 - 30 VDC
<b>Current regulating diode</b>		2 - 10 mA      2 - 4 mA
<b>Electrical noise, equiv. g:</b>		
<b>Broadband      2.5 Hz to 25 kHz</b>		12 $\mu$ g
<b>Spectral      2 Hz</b>		2.0 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>10 Hz</b>		0.6 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>100 Hz</b>		0.2 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$
<b>Bias output voltage</b>		10 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Temperature range</b>		-50° to +120°C
<b>Vibration limit</b>		250 g peak
<b>Shock limit</b>		2,500 g peak
<b>Electromagnetic sensitivity, equiv. g, max</b>		5 $\mu$ g/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity</b>		0.001 g/ $\mu$ strain
<b>Sensing element design</b>		PZT ceramic / shear
<b>Weight</b>		160 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 captive socket head screw
<b>Output connector</b>		3 pin, MIL-C-5015 style
<b>Mating connector</b>		R6G type

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

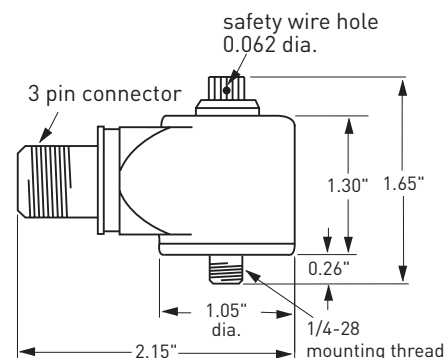


Note: Due to continuous process improvement, specifications are subject to change without notice.  
This document is cleared for public release.



### Key features

- Accelerometer with internal temperature sensor
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
accel, power/signal	A
accel/temp common	B
temp sensor, power/signal	C
ground	shell