

Low-frequency dual output 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 393°K (-50° to +120°C)
Power requirement:	Accelerometer	Temp sensor
Voltage source	18 - 30 VDC	18 - 30 VDC
Current regulating diode	2 - 10 mA	2 - 4 mA
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	12 μ g
Spectral	2 Hz	2.0 μ g/ $\sqrt{\text{Hz}}$
	10 Hz	0.6 μ g/ $\sqrt{\text{Hz}}$
	100 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, max		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

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

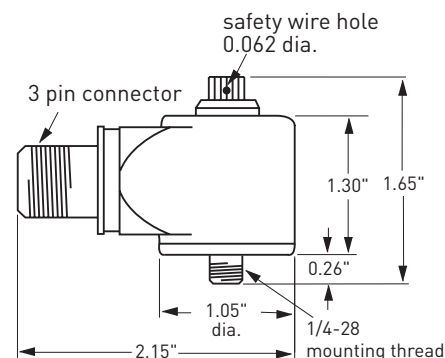


Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.



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