

Low-frequency accelerometer

797L-3

 **Danetech srl**
Via Italo Calvino 7
Lotto 1 - Edificio A13-14
20017 Rho (MI)
Tel. +39 02 36569371
info@danetech.it
www.danetech.it

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C	200 mV/g
Acceleration range¹	25 g peak
Amplitude nonlinearity	1%
Frequency response, nominal:	
$\pm 5\%$	0.6 - 1,700 Hz
$\pm 10\%$	0.4 - 2,500 Hz
± 3 dB	0.2 - 5,000 Hz
Resonance frequency	18 kHz
Transverse sensitivity, max	7% of axial
Temperature response:	
-50°C	-10%
+120°C	+10%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode ^{1,2}	2 - 10 mA
Electrical noise, equiv. g, nominal:	
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	5 μ g/gauss
Sealing	hermetic
Base strain sensitivity	0.001 g/ μ strain
Weight	148 grams
Case material	316L stainless steel
Mounting	1/4-28 captive screw
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J9T2, two-conductor shielded, Tefzel [®] jacket, 30 pF/ft.

Notes: ¹ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

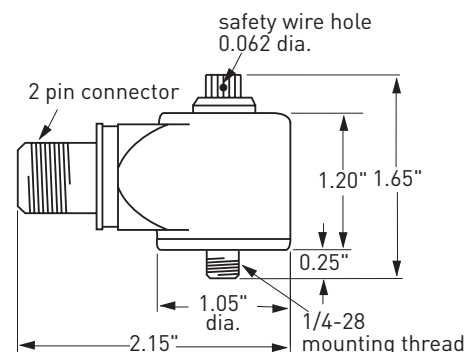
² A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C.

Accessories supplied: 1/4-28 captive screw; calibration data



Key features

- High sensitivity
- Ultra low noise electronics
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B



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