

CMCP1300T Series Low-Cost Compact Triaxial Accelerometer



Features

- Side Exit Triaxial Accelerometer
- 100 mV/g $\pm 10\%$ per channel
- 0.32 Hz to 10 kHz Frequency Response
- Waterproof, Epoxy Encapsulated
- 4-Pin 8SL Bayonet Connector
- UV and Oil Resistant
- Small Size Aluminum Case

Typical Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

Technical Performance

Mounted Base Resonance:	>25 kHz (nominal)
Sensitivity:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22°C
Frequency Response:	1.5 Hz to 8 kHz $\pm 10\%$ (90 cpm to 480 kcpm) 0.32 Hz to 10 kHz $\pm 3dB$ (19.2 cpm to 600 kcpm)
Isolation:	Case Isolated
Measurement Range:	± 50 g
Amplitude Linearity:	Less than 1% Deviation
Transverse Sensitivity:	Less than 5%

Electrical

Supply Voltage:	18 to 28 VDC	
Current Range:	2 to 20 mA	
Bias Voltage:	8-12 Vdc	
Electrical Noise:	0.1 mg max.	
Electrical Protection:	RFI/ESD	
Settling Time:	2.5 Second	
Output Impedance:	<100 Ohm max.	
Case Isolation:	> 10^8 Ohm at 500 Volt	
Spectral Noise:	1 Hz:	85 $\mu\text{g}/\sqrt{\text{Hz}}$ [850 ($\mu\text{m}/\text{s}^2$)/ $\sqrt{\text{Hz}}$]
	10 Hz:	10 $\mu\text{g}/\sqrt{\text{Hz}}$ [100 ($\mu\text{m}/\text{s}^2$)/ $\sqrt{\text{Hz}}$]
	100 Hz:	2.7 $\mu\text{g}/\sqrt{\text{Hz}}$ [27 ($\mu\text{m}/\text{s}^2$)/ $\sqrt{\text{Hz}}$]
	1000 Hz:	1.0 $\mu\text{g}/\sqrt{\text{Hz}}$ [10 ($\mu\text{m}/\text{s}^2$)/ $\sqrt{\text{Hz}}$]

Environmental

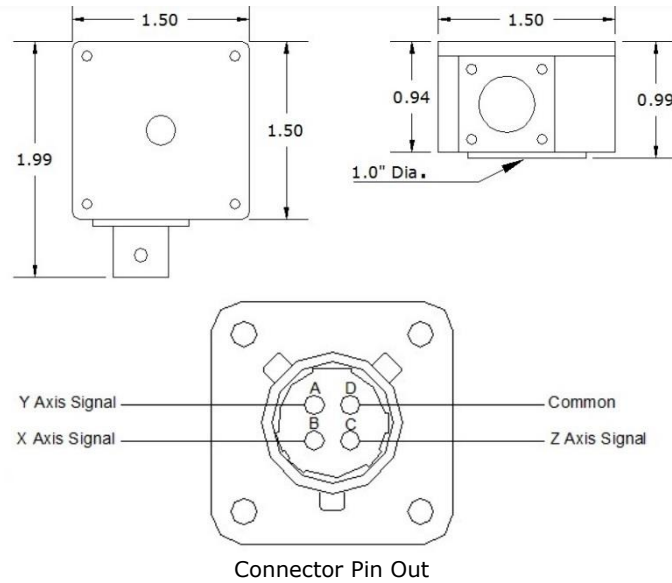
Operating Temperature Range:	-65 to 185°F (-54 to 85°C)
Sealing:	Epoxy Encapsulated
Maximum Shock:	7,000 g
Approvals:	CE Approved

Mechanical

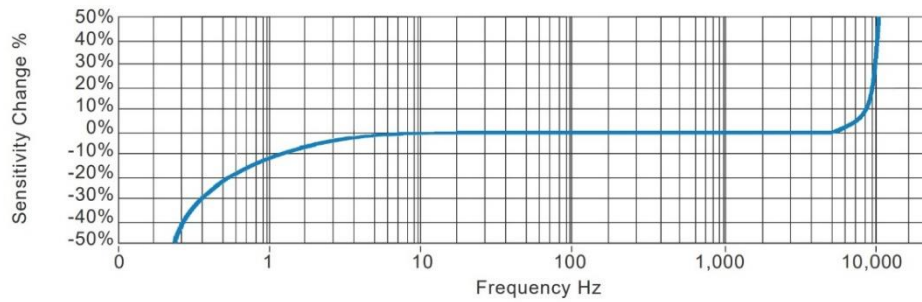
Case Material:	Aluminum
Sensing Element:	PZT/Shear
Mounting Torque:	2-5 ft-lbs (2.7 to 6.8 Nm)
Weight:	3 Oz (85 gram)
Connector:	4-Pin 8SL Bayonet
Mounting Thread:	1/4-28 UNF Captive Mounting Bolt



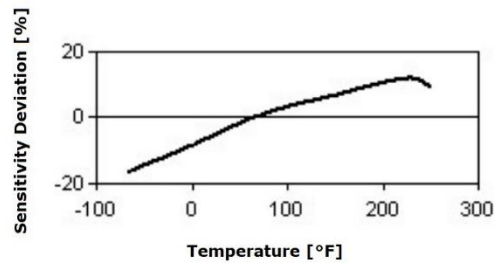
Dimensions



Typical Frequency Response



Typical Sensitivity Deviation vs Temperature



Ordering Information

CMCP1300T Low-Cost Triaxial Accelerometer, 100mV/g, Side Entry, 4 Pin MS Bayonet

Recommended Cable Assembly

CMCP604L Series of extension cable

Similar Products



MS Connector
CMCP760T