



CMCP1300ST-T Series Low-Cost Triaxial Accelerometer with Temperature



Features

- Side Exit Triaxial Accelerometer with Temperature
- 100 mV/g $\pm 10\%$ Per Axis
- 10 mV/ $^{\circ}\text{C}$ Temperature Output
- 0.32 Hz to 10 kHz Frequency Response
- Waterproof, Epoxy Encapsulated
- 5 Pin M12 Connector
- 316 Stainless Steel Case
- ± 80 g Range
- $\frac{1}{4}$ "-28 UNF or M8x1.25 Mounting Bolt



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:	>20 kHz (nominal)
Sensitivity:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22 $^{\circ}\text{C}$
Frequency Response:	1.5 Hz to 8 kHz $\pm 10\%$ (90 cpm to 480 kcpm) 0.32 Hz to 10 kHz $\pm 3\text{dB}$ (19.2 cpm to 600 kcpm)
Isolation:	Case Isolated
Measurement Range:	± 80 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 ($\mu\text{m}/\text{s}^2$)/ $\sqrt{\text{Hz}}$]

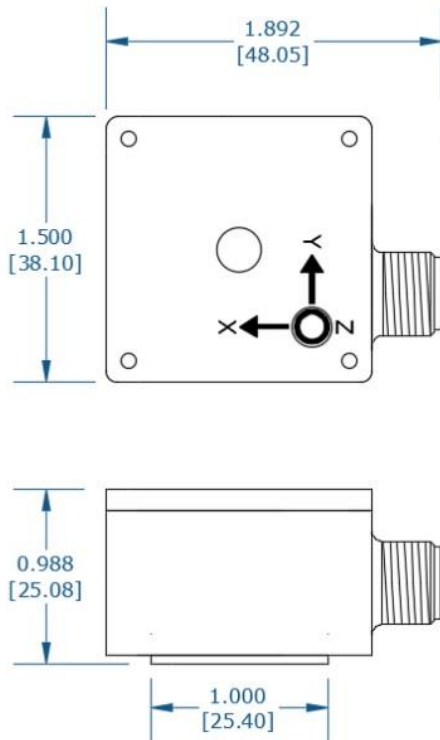
Environmental

Operating Temperature Range:	-65 to 185 $^{\circ}\text{F}$ (-54 to 85 $^{\circ}\text{C}$)
Sealing:	Epoxy Encapsulated
Maximum Shock:	7,000 g
Approvals:	CE Approved

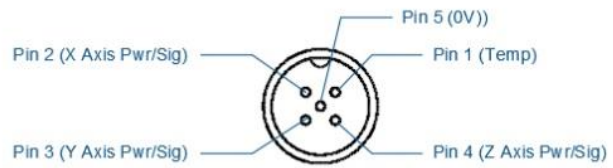
Mechanical

Case Material:	316 Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9 ft-lbs (8 Nm)
Weight:	6.7 Oz (189 gram)
Connector:	5-Pin M12
Mounting Thread:	$\frac{1}{4}$ "-28 UNF or M8x1.25 Captive Mounting Bolt

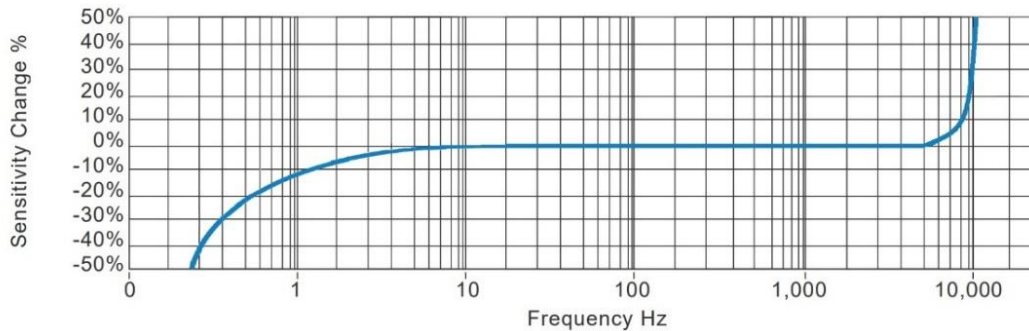
Dimensions



Connection Details



Typical Frequency Response



Ordering Information

CMCP1300T-T Low-Cost Triaxial Accelerometer, 100 mV/g, Side Entry, ¼-28 UNF Mounting Bolt
 CMCP1300T-T-M8 Low-Cost Triaxial Accelerometer, 100 mV/g, Side Entry, M8x1.25 Mounting Bolt

Recommended Cable Assembly

CMCP605M Series of extension cable

Similar Products



MS Connector
 CMCP760T-T