

CMCP760 Series Biaxial and Triaxial Accelerometers



Features:

- Side Exit Biaxial or Triaxial Accelerometer
- 100mV/g $\pm 10\%$ (Standard, Others Available)
- 1 Second Settling Time
- 0.8Hz to 15kHz (48 to 900k CPM)
- Stainless Steel Case
- 4 Pin M12 Eurofast Connector
- -67 to +266°F (-55 to +130°C) Extended Temperature Range
- $\pm 80g$ Range (100mV/g Version)
- 1/4"-28 UNF Mounting Bolt
- Sealed to IP67

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 (1,800k CPM)
Sensitivity:	100mV/g $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response:	2 Hz to 10 kHz $\pm 5\%$ (120 cpm to 600k cpm) 1.5 Hz to 12 kHz $\pm 10\%$ (90 cpm to 720k cpm) 0.8 Hz to 15 kHz $\pm 3dB$ (48 cpm to 900k cpm)
Isolation:	Base Isolated
Measurement Range:	$\pm 80 g$
Transverse Sensitivity:	Less than 5%

Electrical

Electrical Noise:	0.1mg max
Current Range:	0.5mA to 8mA
Bias Voltage:	10-12 Vdc
Settling Time:	1 Second
Output Impedance:	200 Ohms max.
Case Isolation:	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range:	-67 to 266°F (-55 to 130°C)
Sealing:	IP67
Maximum Shock:	5000 g
Approvals:	CE Approved

Mechanical

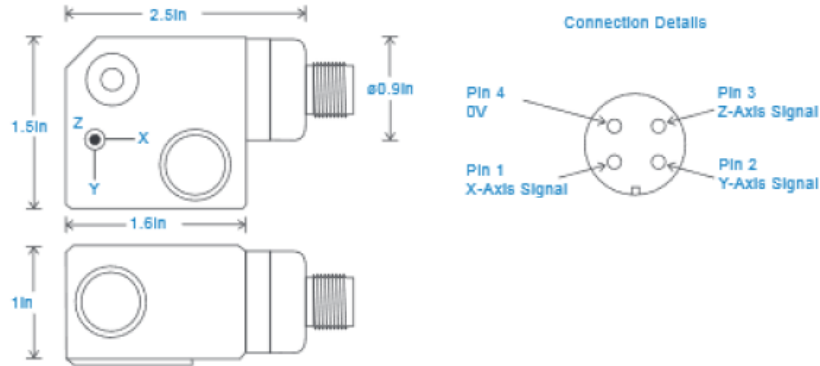
Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9ft. lbs (8Nm)
Weight:	6.5 Oz (185 grams)
Mounting:	1/4"-28 UNF Captive Bolt (Supplied with Sensor)
Mating Connector:	4 Pin M12 Eurofast Connector (CMCP605 Series Cables)

Optional Modifications

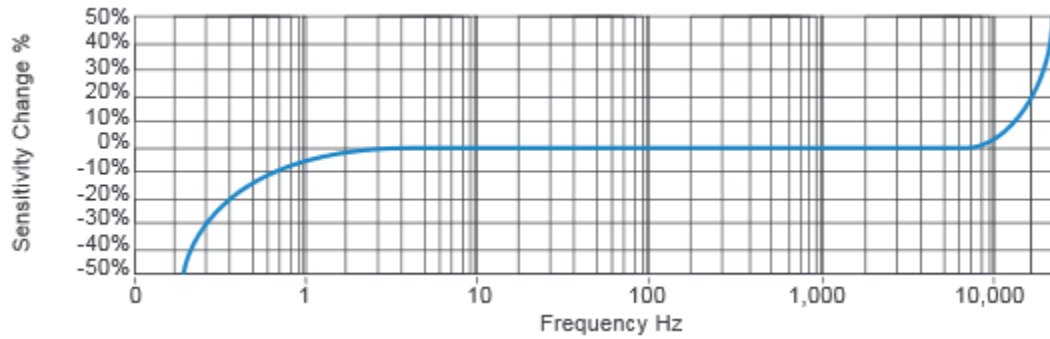
Non-Stocked Sensitivities:

50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)
Sensitivity specified after base part number (ex. CMCP760X-500)

Dimensions



Typical Frequency Response (at 100mV/g)



Ordering Information:

CMCP760B Biaxial Accelerometer, 1/4"-28 UNF Mounting, 4 Pin M12 Connector, 100mV/g x 2
CMCP760T Triaxial Accelerometer, 1/4"-28 UNF Mounting, 4 Pin M12 Connector, 100mV/g x 3

Alternative Sensitivity Ordering Information:

CMCP760X-XXX Specify Sensitivity in Place of -XXX
50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

Similar Products:



CMCP1300A
Low Cost Triaxial Accelerometer