



## CMCP760T Triaxial Accelerometer, 100 mV/g, M12 Connector

### Features



- Side Exit Triaxial Accelerometer or Biaxial (CMCP760B)
- 100 mV/g  $\pm 10\%$
- 150°C Max Temperature Range
- $\pm 80$  g Dynamic Range
- 1 Second Settling Time
- Stainless Steel Case
- M12 Eurofast Connector
- 1/4"-28 UNF or M8x1.25 Captive Mounting Bolt
- Sealed to IP67

### Typical Applications

Trains, 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:	17 kHz (1,020 kcpm)
Sensitivity:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22°C
Frequency Response:	2.0 Hz to 10 kHz $\pm 5\%$ (180 cpm to 600 kcpm) 1.5 Hz to 12 kHz $\pm 10\%$ (90 cpm to 720 kcpm) 0.8 Hz to 15 kHz $\pm 3$ dB (48 cpm to 900 kcpm)
Isolation:	Base Isolated
Measurement Range:	$\pm 80$ g
Transverse Sensitivity:	Less than 5%

### Electrical

Supply Voltage:	18-30 VDC
Current Range:	0.5 mA to 8 mA
Bias Voltage:	10-12 VDC
Electrical Noise:	0.1 mg max
Settling Time:	1 Second
Output Impedance:	200 Ohm max.
Case Isolation:	$> 10^8$ Ohm at 500 Volt

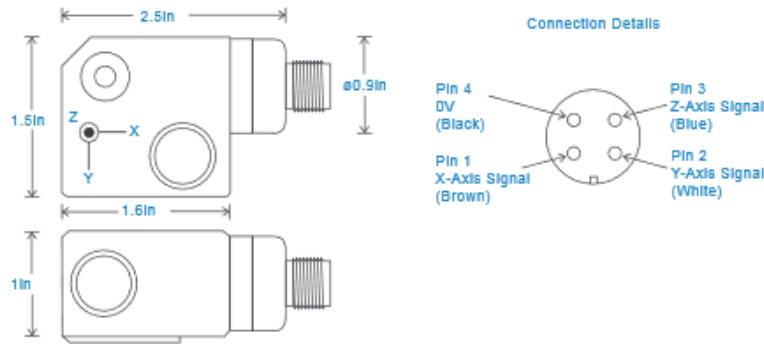
### Environmental

Operating Temperature Range:	-67 to 302°F (-55 to 150°C)
Sealing:	IP67
Maximum Shock:	5000 g
Approvals:	CE Approved

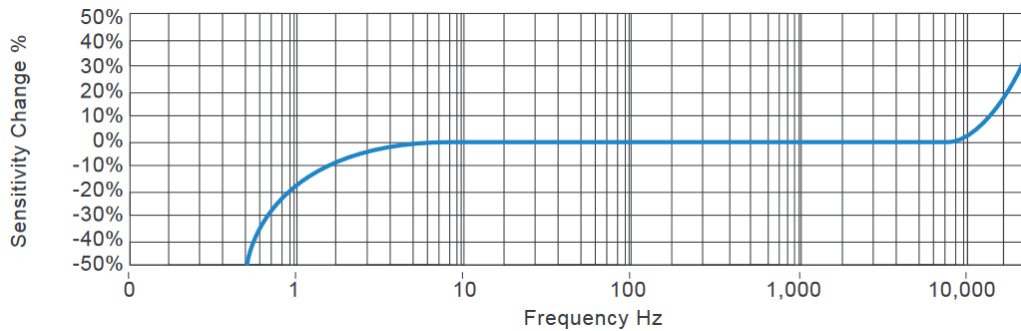
### Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9 ft-lbs (8 Nm)
Weight:	8.3 Oz (235 gram)
Mounting:	1/4"-28 UNF or M8x1.25 Captive Mounting Bolt
Mating Connector:	4 Pin M12 Eurofast Connector
Recommended Cable Assembly:	CMCP605M Series M12

## Dimensions



## Typical Frequency Response



## Ordering Information

CMCP760T	Triaxial Accelerometer, 1/4"-28 UNF Mounting, 4 Pin M12 Connector, 100mV/g x 3
CMCP760T-M8	Triaxial Accelerometer, M8x1.25 Mounting, 4 Pin M12 Connector, 100mV/g x 3
CMCP760B	Biaxial Accelerometer, 1/4"-28 UNF Mounting, 4 Pin M12 Connector, 100mV/g x 2
CMCP760B-M8	Biaxial Accelerometer, M8x1.25 Mounting, 4 Pin M12 Connector, 100mV/g x 2

## Alternative Sensitivity Ordering Information

Part Number	Sensitivity	Measurement Range	Base Resonance
CMCP760T-10	10 mV/g	$\pm 800$ g	20 kHz
CMCP760T-30	30 mV/g	$\pm 250$ g	19 kHz
CMCP760T-50	50 mV/g	$\pm 160$ g	18 kHz
CMCP760T-250	250 mV/g	$\pm 32$ g	16 kHz
CMCP760T-500	500 mV/g	$\pm 16$ g	15 kHz

## Recommended Magnets

CMCP-MB03T	Magnetic Base, 80 Lbs Pull, Curved Surface (Pole Magnet) with Offset Mounting Hole for Triaxial Accelerometers, 316 Stainless Steel Case, 1/4"-28 Threaded
CMCP-MB03T-M8	Magnetic Base, 80 Lbs Pull, Curved Surface (Pole Magnet) with Offset Mounting Hole for Triaxial Accelerometers, 316 Stainless Steel Case, M8x1.25 Threaded

## Similar Products



**CMCP760TR**  
Triaxial Accelerometer Top Exit



**CMCP1300A**  
Low Cost Triaxial Accelerometer