

## CMCP760TT Series Triaxial Accelerometer with Temperature Output



### Features:

- Side Exit Triaxial Accelerometer
- 10mV/°C Temperature Output
- 100mV/g  $\pm 10\%$  (Standard, Others Available)
- 1 Second Settling Time
- 0.8Hz to 15kHz (48 to 900k CPM)
- Stainless Steel Case
- 5 Pin M12 Connector
- -67 to +302°F (-55 to +150°C) Extended Temperature Range
- $\pm 80g$  Range (100mV/g Version)
- ¼"-28 UNF or M8x1.25 Captive 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%
Temperature Range:	0-100 Deg. C (0-1VDC)

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

### Mechanical

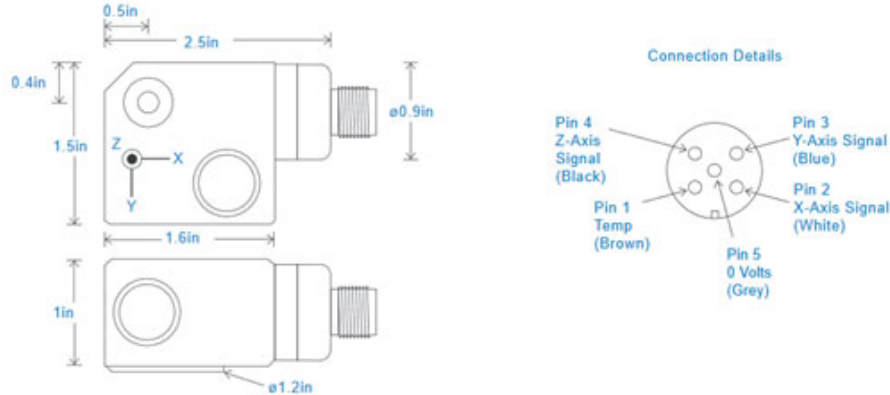
Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9ft. lbs (8Nm)
Weight:	6.5 Oz (185 grams)
Mounting:	¼"-28 or M8x1.25 (1.2" Long Captive Bolt)
Connector:	5 Pin M12
Mating Cable:	CMCP605 Series Cable

## Optional Modifications

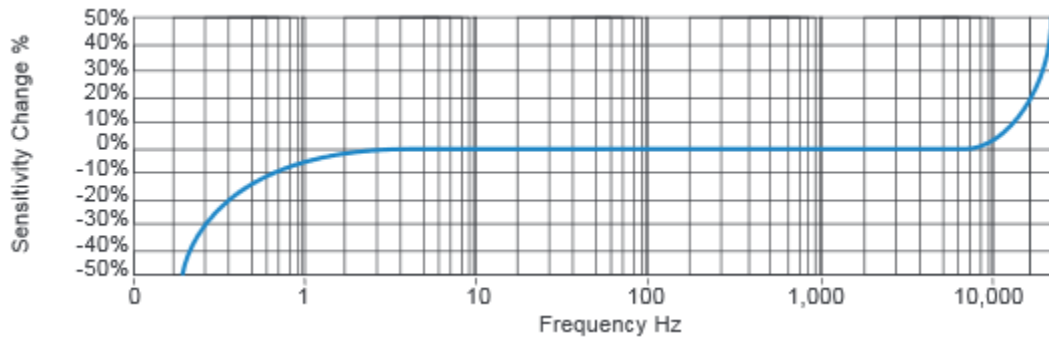
Non-Stocked Sensitivities:

50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)  
Sensitivity specified after base part number (ex. CMCP760TTX-500)

## Dimensions



## Typical Frequency Response (at 100mV/g)



## Ordering Information:

CMCP760TT	Triaxial Accelerometer with Temperature, 100mV/g, ¼-28 UNF Mounting Bolt
CMCP760TT-500	Triaxial Accelerometer with Temperature, 500mV/g, ¼-28 UNF Mounting Bolt
CMCP760TT-M8	Triaxial Accelerometer with Temperature, 100mV/g, M8x1.25 Mounting Bolt
CMCP760TT-500-M8	Triaxial Accelerometer with Temperature, 500mV/g, M8x1.25 Mounting Bolt

## Cabling:

CMCP605M-05-01	M12 Cable Assembly, PUR Jacketed, 5m (16') Long, Tinned Leads on Fly End
CMCP605M-10-01	M12 Cable Assembly, PUR Jacketed, 10m (32') Long, Tinned Leads on Fly End
CMCP605M-20-01	M12 Cable Assembly, PUR Jacketed, 20m (64') Long, Tinned Leads on Fly End

## Magnets:

CMCP-MB03T	80 Lb Pull Magnetic Base, Curved Surface (Pole Magnet) with Offset Mounting Hole for Triaxial Accelerometers, 316 Stainless Steel Case, ¼-28 Threaded
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CMCP-MB03T-M8	80 Lb Pull Magnetic Base, Curved Surface (Pole Magnet) with Offset Mounting Hole for Triaxial Accelerometers, 316 Stainless Steel Case, M8x1.25 Threaded
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