



CMCP760TT

Triaxial Accelerometer with Temperature Output

Features

- Side Exit Triaxial Accelerometer
- 100 mV/g $\pm 10\%$ Sensitivity
- 10 mV/°C Temperature Output
- 150°C Max Temperature Range
- ± 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 (1,020k CPM)
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 720k cpm) 0.8 Hz to 15 kHz ± 3 dB (48 cpm to 900k cpm)
Temperature Output:	10 mV/°C
Isolation:	Base Isolated
Measurement Range:	± 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

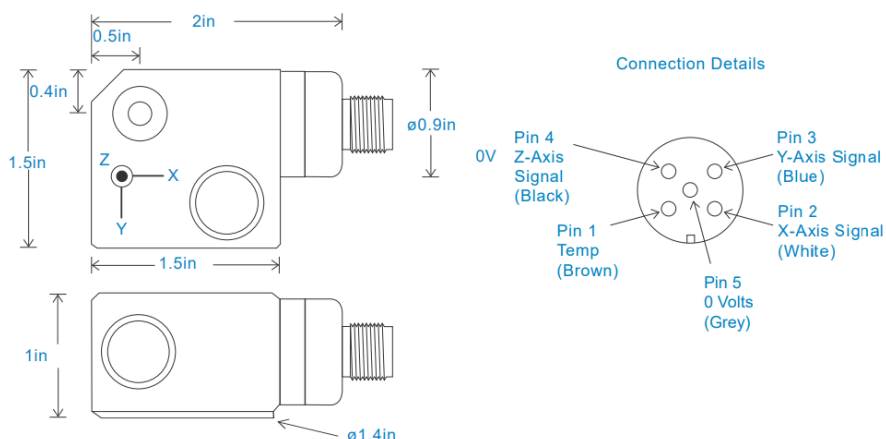
Environmental

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

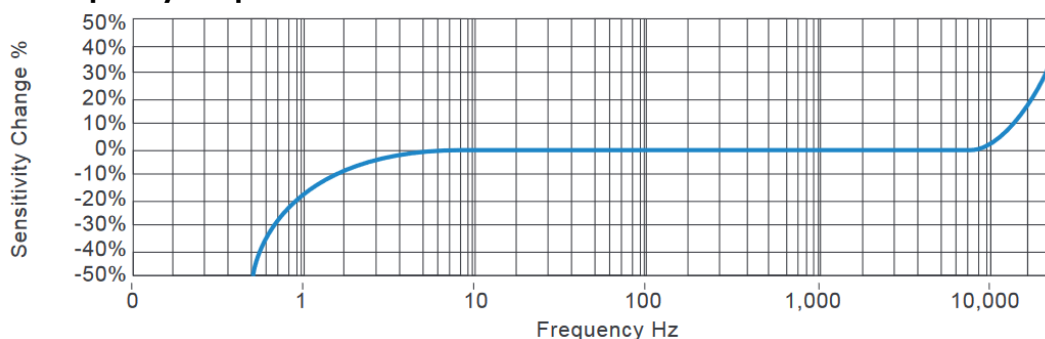
Mechanical

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:	5 Pin M12 Eurofast Connector
Recommended Cable Assembly:	CMCP605M Series M12

Dimensions



Typical Frequency Response



Ordering Information

CMCP760TT Triaxial Accelerometer, 1/4"-28 UNF Mounting, 5 Pin M12 Connector, 100mV/g x 3
 CMCP760TT-M8 Triaxial Accelerometer, M8x1.25 Mounting, 5 Pin M12 Connector, 100mV/g x 3

Alternative Sensitivity Ordering Information

Part Number	Sensitivity	Measurement Range	Base Resonance
CMCP760TT-10	10 mV/g	±800 g	20 kHz
CMCP760TT-30	30 mV/g	±250 g	19 kHz
CMCP760TT-50	50 mV/g	±160 g	18 kHz
CMCP760TT-250	250 mV/g	±32 g	16 kHz
CMCP760TT-500	500 mV/g	±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



CMCP1300ST-T

Low Cost Triaxial Accelerometer with Temperature