



CMCP760TT Triaxial Accelerometer with Temperature Output

Features

- Side Exit Triaxial Accelerometer
- 100 mV/g $\pm 10\%$ Sensitivity
- 10 mV/ $^{\circ}$ C Temperature Output
- 150 $^{\circ}$ C Max Temperature Range
- ± 80 g Dynamic Range
- 1 Second Settling Time
- Stainless Steel Case
- M12 Eurofast Connector
- $\frac{1}{4}$ "-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:	20 kHz (1,200k CPM)
Sensitivity:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22 $^{\circ}$ C
Frequency Response:	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/ $^{\circ}$ C
Isolation:	Base Isolated
Measurement Range:	± 80 g
Transverse Sensitivity:	Less than 5%

Electrical

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

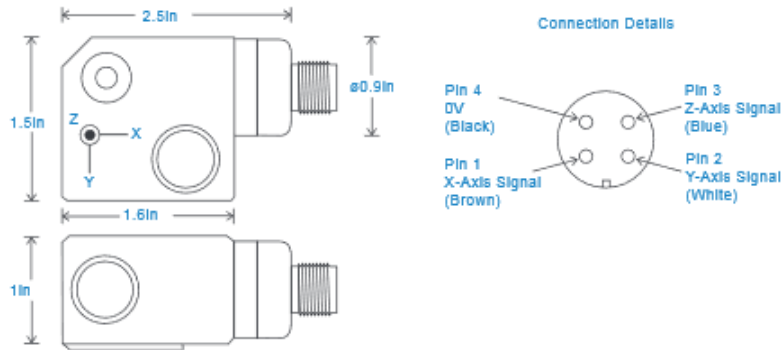
Environmental

Operating Temperature Range:	-67 to 302 $^{\circ}$ F (-55 to 150 $^{\circ}$ 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:	$\frac{1}{4}$ "-28 UNF or M8x1.25 Captive Mounting Bolt
Mating Connector:	M12 Eurofast Connector (CMCP605M Series Cables)

Dimensions



Ordering Information

CMCP760TT Triaxial Accelerometer, ¼"-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

CMCP760TT-XXX Specify Sensitivity in Place of -XXX
 50 mV/g (-050) with Dynamic Range of ±160 g,
 250 mV/g (-250) with Dynamic Range of ±32 g and
 500 mV/g (-500) with Dynamic Range of ±16 g

Recommended Cable Assemblies

General Purpose PVC Jacketed Cable (Rated to 120°C)
 CMCP605M-05-01 M12 Cable Assembly, Straight Exit Connector, PVC Jacketed, 5m (16') Length
 CMCP605M-10-01 M12 Cable Assembly, Straight Exit Connector, PVC Jacketed, 10m (32') Length
 CMCP605M-20-01 M12 Cable Assembly, Straight Exit Connector, PVC Jacketed, 20m (64') Length

Recommended Magnets

CMCP-MB03T Magnetic Base, 80 Lbs Pull, Curved Surface (Pole Magnet) with Offset Mounting Hole for Triaxial Accelerometers, 316 Stainless Steel Case, ¼-28 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 Output