CMCP760TT Series
Triaxial Accelerometer with Temperature Output

Features:
- Side Exit Triaxial Accelerometer
- 10mV/°C Temperature Output
- 100mV/g ±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
- ±80g Range (100mV/g Version)
- ¼”-28 UNF or M8x1.25 Captive Mounting Bolt
- Sealed to IP67

Typical Applications

Technical Performance
Mounted Base Resonance: 20 kHz (1,800k CPM)
Sensitivity: 100mV/g ±10% Nominal 80Hz at 22°C
Frequency Response:
- 2 Hz to 10 kHz ±5% (120 cpm to 600k cpm)
- 1.5 Hz to 12 kHz ±10% (90 cpm to 720k cpm)
- 0.8 Hz to 15 kHz ±3dB (48 cpm to 900k cpm)
Isolation: Base Isolated
Measurement Range: ±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: >10⁸ 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
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