



CMCP787T
Premium Dual Output Side Entry Accelerometer
with Temperature and 3 Pin MS 5015



Features

- Dual Output Precision Accelerometer with Temperature
- 100 mV/g $\pm 5\%$ and 10 mV/ $^{\circ}\text{C}$
- 150 $^{\circ}\text{C}$ Max Temperature Range
- ± 80 g Dynamic Range
- 3 Pin MS 5015 Connector
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- 1/4"-28 UNF or M8x1.25 Captive Mounting Bolt
- Sealed to IP68

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: 21 kHz (nominal)
 Sensitivity (Acceleration): 100 mV/g $\pm 5\%$ Nominal 80 Hz at 22 $^{\circ}\text{C}$
 Sensitivity (Temperature): 10 mV/ $^{\circ}\text{C}$ (0-150 $^{\circ}\text{C}$ Range)
 Frequency Response:
 1.5 Hz to 10 kHz $\pm 5\%$ (90 cpm to 600 kcpm)
 0.5 Hz to 12 kHz $\pm 10\%$ (30 cpm to 720 kcpm)
 0.2 Hz to 15 kHz $\pm 3\text{dB}$ (12 cpm to 900 kcpm)

Isolation: Base Isolated
 Measurement Range: ± 80 g
 Transverse Sensitivity: Less than 5%

Electrical

Supply Voltage: 18-30 VDC
 Current Range: 0.5 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 $^{\circ}\text{F}$ (-55 to 150 $^{\circ}\text{C}$)
 Sealing: IP68
 Maximum Shock: 5000 g
 Approvals: CE and UKCA Approved
 CSA/UL Class 1 Division 2, Groups B, C and D

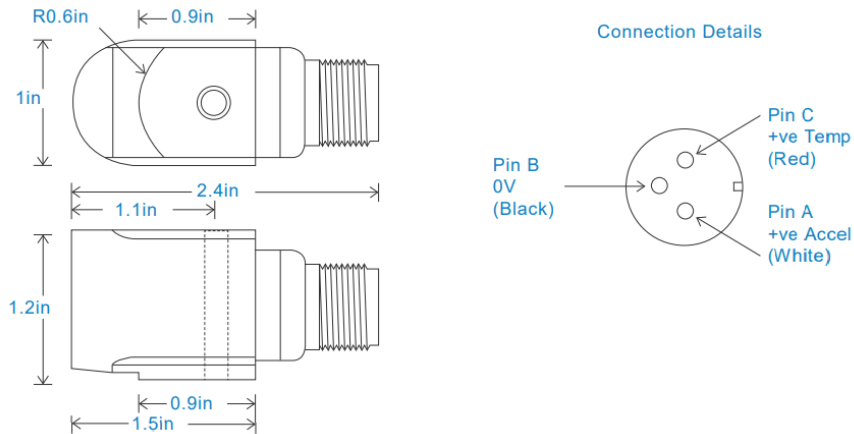
Mechanical

Case Material: Stainless Steel
 Sensing Element/Construction: PZT/Shear
 Mounting Torque: 5.9 ft-lbs (8 Nm)
 Weight: 6.5 Oz (185 gram)
 Mating Connector: 3 Pin MS 5015
 Recommended Cable Assembly: CMCP603H Series
 Mounting Thread:
 CMCP787T: 1/4"-28 UNF Captive Bolt Supplied with Sensor
 CMCP787T-M8: M8x1.25 Captive Bolt Supplied with Sensor

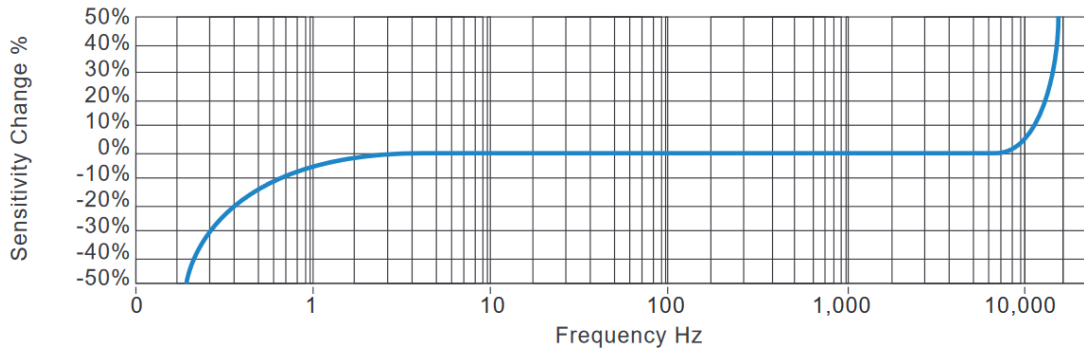
Hazardous Location Ratings

Class I, II, III, Division 1 and 2, Groups A-G, T4, -55°C to + 110°C IP65
 Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C
 Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -55°C to + 110°C
 Class I, II, III, Division 1, 2, Groups A-G, T6, -55°C to + 110°C
 Zone 20, AEx, ia, IIIX, T80°C, IP65, DA, -55°C to + 110°C

Dimensions



Typical Frequency Response



Ordering Information

CMCP787T Dual Side Entry Accelerometer with Temperature, 100 mV/g, 3 Pin MS 5015, ¼-28 UNF Mount
 CMCP787T-M8 Dual Side Entry Accelerometer with Temperature, 100 mV/g, 3 Pin MS 5015, M8x1.25 Mount

Alternative Sensitivity Ordering Information

Part Number	Sensitivity	Measurement Range	Base Resonance
CMCP787T-10	10 mV/g	±800 g	27 kHz
CMCP787T-30	30 mV/g	±250 g	25 kHz
CMCP787T-50	50 mV/g	±160 g	23 kHz
CMCP787T-250	250 mV/g	±32 g	19 kHz
CMCP787T-500	500 mV/g	±16 g	17 kHz

Similar Products



M12 Connector
CMCP787T-M12



Submersible
CMCP787T-IP



Integral Armored Cable
CMCP787T-I