



Condition Monitoring Custom Products

CMCP788A-IP Precision Output Top Entry Accelerometer, IP68 Submersible



Features:

- Precision Output Top Entry Accelerometer
- Submersible to 100m (10 bar)
- 100mV/g ±5%
- 150°C Max Temperature Range
- ±80g Dynamic Range
- Integral PUR Cable
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- ¼"-28 UNF and M8x1.25 Mounting Studs Included
- Sealed to IP68

Typical Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

Technical Performance

Mounted Base Resonance: 22 kHz (nominal)
 Sensitivity: 100mV/g ±5% Nominal 80Hz at 22°C
 Frequency Response: 1.5 Hz to 12 kHz ±5% (90cpm to 720kcpm)
 1.0 Hz to 13 kHz ±10% (60cpm to 780kcpm)
 0.8 Hz to 15 kHz ±3dB (48cpm to 900kcpm)

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

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: IP68
 Submersible Depth: 100 Meters (10 bar)
 Maximum Shock: 5000 g
 Approvals: CE Approved
 CSA/UL Class 1 Division 2, Groups B, C and D

Mechanical

Case Material: Stainless Steel
 Cable Jacket: PUR
 Sensing Element: PZT/Shear
 Mounting Torque: 5.9ft. lbs (8Nm)
 Weight: 4.9 Oz (139 grams)
 Mating Connector: Flying Leads (Integral PUR Jacketed Cable)
 Mounting Thread: 1/4-28 UNF and M8x1.25 Mounting Studs Provided

Hazardous Location Ratings

Class I, II, III, Division 1 and 2, Groups A-G, T4, -55°C to + 110°C IP65

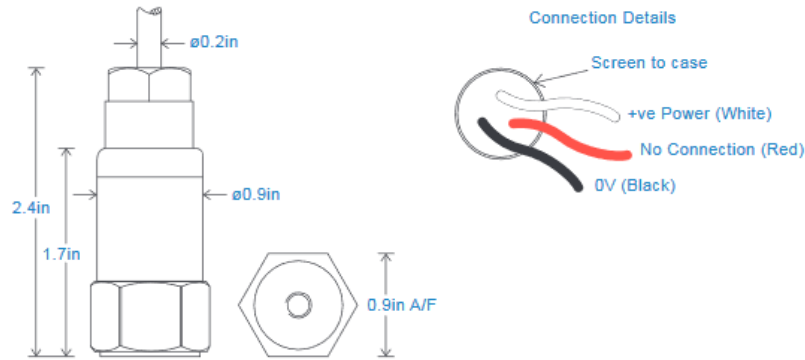
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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



Ordering Information:

CMCP788A-IPXX

Precision Output Top Entry Accelerometer, 100mV/g, IP68 Submersible PUR Cable

Specify Cable Length in Meters in Place of XX (CMCP786A-IP10 for 10 Meters)

Alternative Sensitivity Ordering Information:

CMCP788A-IP-XXX

Specify Sensitivity in Place of -XXX

50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

Similar Products



M12 Connector
CMCP788A-M12



Integral Armored Cable
CMCP788A-I



MS Connector
CMCP788A