



## CMCP787A-I Precision Side Entry Accelerometer, Armored Cable



### Features:

- Precision Side Entry Accelerometer
- 100mV/g  $\pm 5\%$
- 150° Max Temperature Range
- $\pm 80g$  Dynamic Range
- Integral Braided Armored Cable
- 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 IP65

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

Isolation: Base Isolated  
 Measurement Range:  $\pm 80 g$   
 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:  $>10^8$  Ohms at 500 Volts

### Environmental

Operating Temperature Range: -67 to 302°F (-55 to 150°C)  
 Sealing: IP65  
 Maximum Shock: 5000 g  
 Approvals: CE Approved  
 CSA/UL Class 1 Division 2, Groups B, C and D

### Mechanical

Case Material: Stainless Steel  
 Sensing Element: PZT/Shear  
 Mounting Torque: 5.9ft. lbs (8Nm)  
 Weight: 6.5 Oz (185 grams)  
 Mating Connector: Flying Leads (Integral Braided Armored Cable)  
 Mounting Thread:  
 CMCP787A-I: 1/4-28 UNF Captive Bolt  
 CMCP787A-I-M8: M8x1.25 Captive Bolt

Condition Monitoring Custom Products

## Hazardous Location Ratings

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

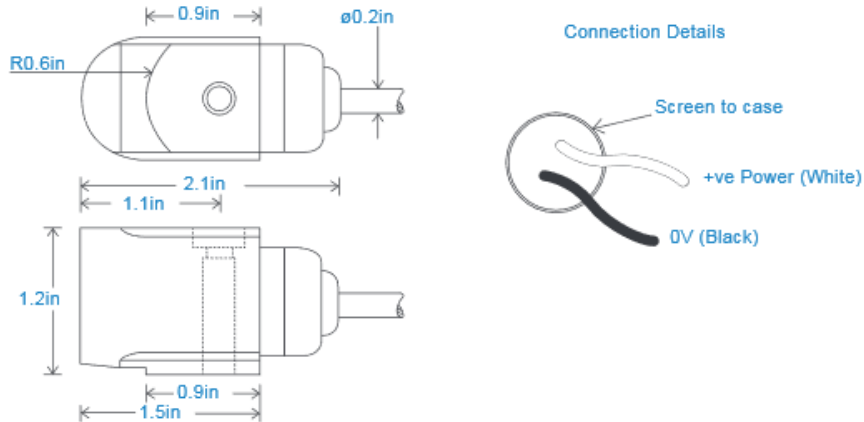
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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:

CMCP787A-**IXX** Precision Side Entry Accelerometer, 100mV/g, Armored Cable, ¼-28 UNF Mount

CMCP787A-**IXX**-M8 Precision Side Entry Accelerometer, 100mV/g, Armored Cable, M8x1.25 Mount  
(Specify Cable Length in Meters in Place of XX)

## Alternative Sensitivity Ordering Information:

CMCP787A-I-**XXX** Specify Sensitivity in Place of -**XXX**  
50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

## Similar Products



**M12 Connector**  
CMCP787A-M12



**Submersible**  
CMCP787A-IP



**MS Connector**  
CMCP787A