



Condition Monitoring Custom Products

## CMCP788A-I Precision Output Top Entry Accelerometer, Armored Cable



### Features:

- Precision Output Top Entry Accelerometer
- 100mV/g ±5%
- 150°C Max Temperature Range
- ±80g Dynamic Range
- Integral Braided Armored 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 IP65

### 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:	>10 <sup>8</sup> 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:	4.9 Oz (139 grams)
Mating Connector:	Flying Leads (Integral Braided Armored 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

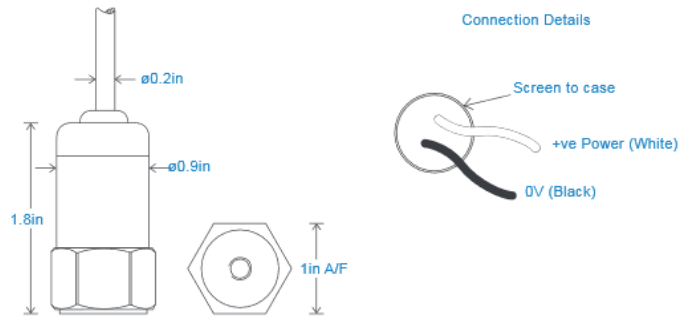
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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-**IXX**

Precision Output Top Entry Accelerometer, 100mV/g, Integral Braided Armored Cable  
Specify Cable Length in Meters in Place of XX (CMCP788A-I10 for 10 Meters)

### Alternative Sensitivity Ordering Information:

CMCP788A-I-**XXX**

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

### Similar Products



**M12 Connector**  
CMCP788A-M12



**Submersible**  
CMCP788A-IP



**MS Connector**  
CMCP788A