

CMCP786A-LF-I Low Frequency Top Entry Accelerometer, Armored Cable



Features:

- Low Frequency Top Entry Accelerometer
- 500mV/g $\pm 10\%$
- 0.2Hz to 15kHz (12cpm to 900kcpm)
- 140°C 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 and M8x1.25 Mounting Studs Provided
- 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:	22 kHz (nominal)
Sensitivity:	500mV/g $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response:	0.5 Hz to 12 kHz $\pm 10\%$ (30cpm to 720kcpm) 0.2 Hz to 15 kHz $\pm 3dB$ (12cpm 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:	1.5 Second
Output Impedance:	200 Ohms max.
Case Isolation:	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range:	-67 to 284°F (-55 to 140°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/Compression
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

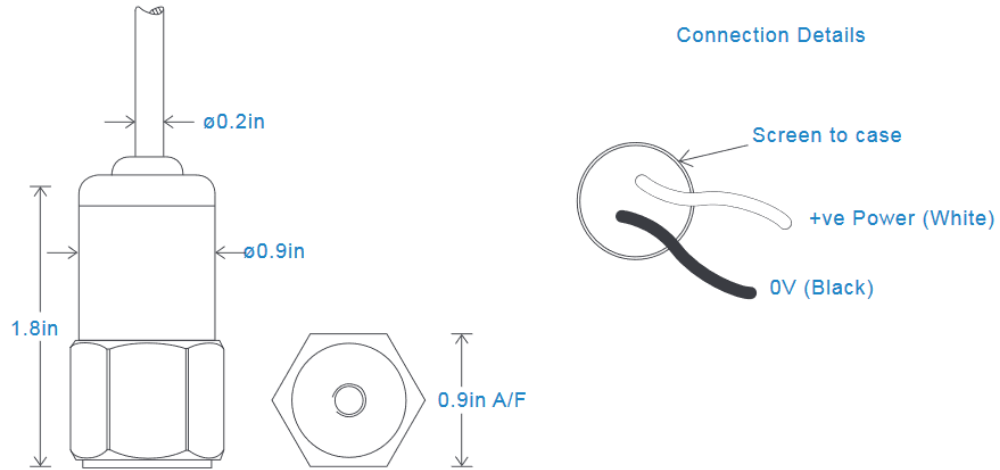
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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:

CMCP786A-LF-**XXX** Low Frequency Top Entry Accelerometer, 500mV/g, Armored Cable
(Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information:

CMCP786A-LF-I-**XXX** Specify Sensitivity in Place of -XXX
100mV/g (-100) and 250mV/g (-250)

Similar Products



M12 Connector
CMCP786A-LF-M12



Submersible
CMCP786A-LF-IP



MS Connector
CMCP786A-LF