



Condition Monitoring Custom Products

CMCP786A-LF Low Frequency Top Entry Accelerometer, 2 Pin MS 5015



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
- 2 Pin MS 5015 Connector
- 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 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:	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:	IP68
Maximum Shock:	5000 g
Approvals:	CE Approved CSA/UL Class 1 Division 2, Groups B, C and D

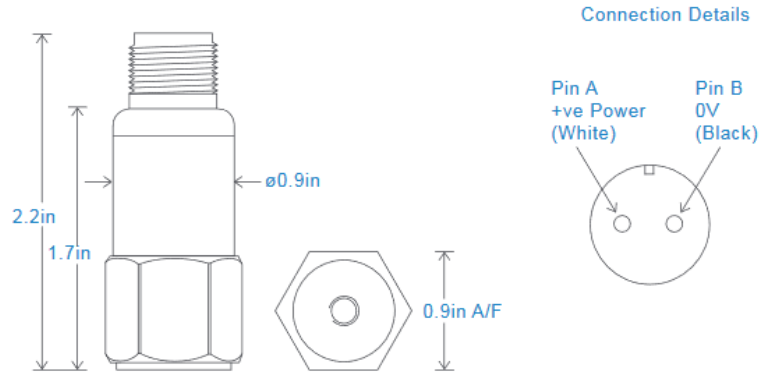
Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Compression
Mounting Torque:	5.9ft. lbs (8Nm)
Weight:	4.9 Oz (139 grams)
Mating Connector:	2 Pin MS 5015
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 Low Frequency Top Entry Accelerometer, 500mV/g, 2 Pin MS 5015 Connector

Alternative Sensitivity Ordering Information:

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

Recommended Cable Assemblies:

General Purpose TPE Jacketed Cable (Rated to 120°C)

CMCP602L Series 2 Socket MS Connector, Locking Collar, IP67
CMCP602LST Series 2 Socket MS Connector, Push On Seal Tight, IP68

High Temperature FEP Jacketed Cable (Rated to 200°C)

CMCP602H Series 2 Socket MS Connector, Locking Collar, IP67
CMCP602HST Series 2 Socket MS Connector, Push On Seal Tight, IP68

Similar Products



M12 Connector
CMCP786A-LF-M12



Submersible
CMCP786A-LF-IP



Integral Armored Cable
CMCP786A-LF-I