



Condition Monitoring Custom Products

CMCP785A-LF Low Frequency Side Entry Accelerometer, 2 Pin MS 5015



Features:

- Low Frequency Side Entry Accelerometer
- 500mV/g ±10%
- 0.2Hz to 15kHz (12cpm to 900kcpm)
- 140°C Max Temperature Range
- ±80g Dynamic Range
- 2 Pin MS 5015 Connector
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- ¼"-28 UNF or M8x1.25 Captive Mounting Bolt
- 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: 27 kHz (nominal)
 Sensitivity: 500mV/g ±10% Nominal 80Hz at 22°C
 Frequency Response: 0.5 Hz to 12 kHz ±10% (30cpm to 720kcpm)
 0.2 Hz to 15 kHz ±3dB (12cpm 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: 1.5 Seconds
 Output Impedance: 200 Ohms max.
 Case Isolation: >10⁸ 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: 6.5 Oz (185 grams)
 Mating Connector: 2 Pin MS 5015
 Mounting Thread:
 CMCP785A-LF: 1/4"-28 UNF Captive Bolt Supplied with Sensor
 CMCP785A-LF-M8: M8x1.25 Captive Bolt Supplied with Sensor

Hazardous Location Ratings

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

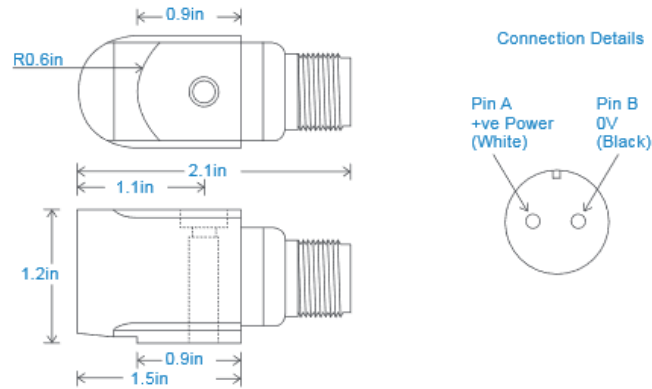
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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:

CMCP785A-LF Low Frequency Side Entry Accelerometer, 500mV/g, 2 Pin MS 5015, ¼-28 UNF Mounting
CMCP785A-LF-M8 Low Frequency Side Entry Accelerometer, 500mV/g, 2 Pin MS 5015, M8x1.25 Mounting

Alternative Sensitivity Ordering Information:

CMCP785A-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
CMCP785A-LF-M12



Submersible
CMCP785A-LF-IP



Integral Armored Cable
CMCP785A-LF-IP