



Condition Monitoring Custom Products

CMCP785A-I General Purpose Side Entry Accelerometer, Armored Cable



Features:

- General Purpose Side Entry Accelerometer
- 100mV/g $\pm 10\%$
- 140° 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 $\pm 10\%$ Nominal 80Hz at 22°C
 Frequency Response: 1.0 Hz to 10 kHz $\pm 10\%$ (60cpm to 600kcpm)
 0.8 Hz to 12 kHz $\pm 3dB$ (48cpm to 720kcpm)
 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 Seconds
 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

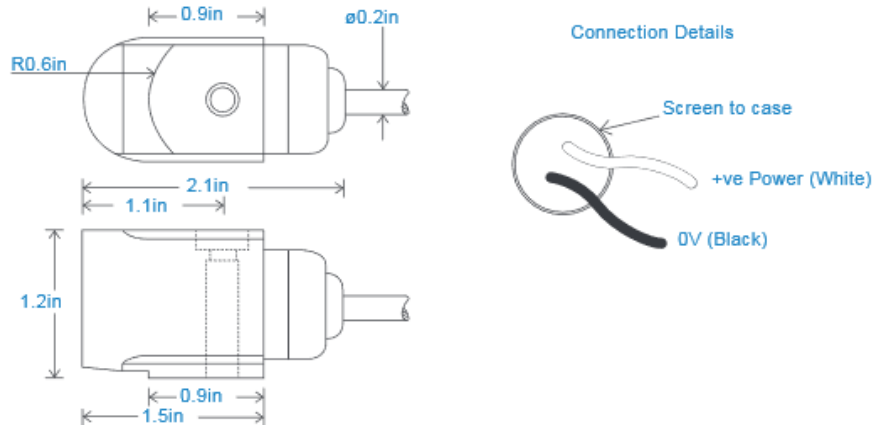
Mechanical

Case Material: Stainless Steel
 Sensing Element: PZT/Compression
 Mounting Torque: 5.9ft. lbs (8Nm)
 Weight: 6.5 Oz (185 grams)
 Mating Connector: Flying Leads (White/Black/Shield)
 Mounting Thread:
 CMCP785A-I: 1/4"-28 UNF Captive Bolt Supplied with Sensor
 CMCP785A-I-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-**IXX** General Purpose Side Entry Accelerometer, 100mV/g, Armored Cable, ¼-28 UNF Mount
CMCP785A-**IXX**-M8 General Purpose Side Entry Accelerometer, 100mV/g, Armored Cable, M8x1.25 Mount
(Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information:

CMCP785A-I-**XXX** Specify Sensitivity in Place of -**XXX**
50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

Similar Products



M12 Connector
CMCP785A-M12



Submersible
CMCP785A-IP



MS Connector
CMCP785A