



Condition Monitoring Custom Products

CMCP785A-IP General Purpose Side Entry Accelerometer, Submersible



Features:

- General Purpose Side Entry Accelerometer
- Submersible to 100m (10 bar)
- 100mV/g $\pm 10\%$
- 140° Max Temperature Range
- $\pm 80g$ Dynamic Range
- Integral PUR 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 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: 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: IP68
 Submersible Depth: 100m (10 bar)
 Maximum Shock: 5000 g
 Approvals: CE Approved
 CSA/UL Class 1 Division 2, Groups B, C and D

Mechanical

Case Material: Stainless Steel
 Cable Jacket: PUR
 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-IP: 1/4"-28 UNF Captive Bolt Supplied with Sensor
 CMCP785A-IP-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

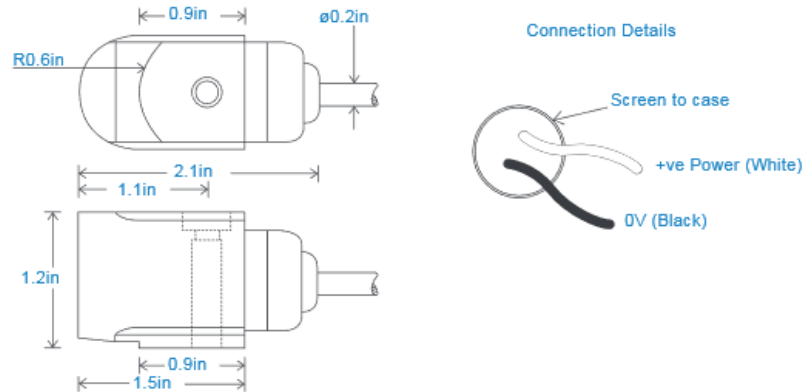
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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-IPXX

General Purpose Side Entry Accelerometer, 100mV/g, Submersible, ¼-28 UNF Mount

CMCP785A-IPXX-M8

General Purpose Side Entry Accelerometer, 100mV/g, Submersible, M8x1.25 Mount

(Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information:

CMCP785A-IP-XXX

Specify Sensitivity in Place of -XXX

50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

Similar Products



M12 Connector
CMCP785A-M12



Integral Armored Cable
CMCP785A-IP



MS Connector
CMCP785A