

Vibration Monitoring and Machine Protection Systems

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CMCP793V Velocity Sensor, Top Entry 2 Pin MS Connector







Features:

- Top Exit Velocity Sensor
- 100 or 500 mV/In/Sec ±10% (4mV or 20mV/mm/s)
- 140°C Max Temperature 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 Included
- 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:

CMCP793V: 100mV/In/Sec $(4mV/mm/s) \pm 10\%$ Nominal 80Hz at 22°C CMCP793V-500: 500mV/Sec $(20mV/mm/s) \pm 10\%$ Nominal 80Hz at 22°C

Frequency Response: 3 Hz to 4.5 kHz $\pm 10\%$ (180 cpm to 270k cpm) 2 Hz to 6 kHz ± 3 dB (120 cpm to 260k cpm)

Isolation: Base Isolated

Measurement Range:

100mV/In/Sec Option: 40 In/Sec 500mV/In/Sec Option: 10 In/Sec 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 Second
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 / Hermetically Sealed

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: 4.4 Oz (125 grams)

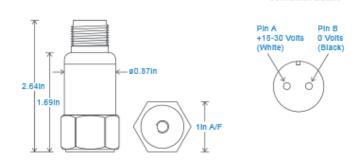
Mounting: 1/4"-28 UNF and M8x1.25 Mounting Studs Provided

Mating Connector: 2 Pin MIL 5015 MS Connector

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



Connection Details

Ordering Information:

CMCP793V Velocity Sensor, Top Entry 2 Pin MS Connector, 100mV/in/s (4mV/mm/s) CMCP793V-500 Velocity Sensor, Top Entry 2 Pin MS Connector, 500mV/in/s (20mV/mm/s)

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 CMCP793V-M12



Submersible CMCP793V-IP



Integral Armored Cable CMCP793V-I