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
- ¼”-28 UNF and M8x1.25 Mounting Studs Included
- Sealed to IP68

**Typical Applications**

**Technical Performance**
- Mounted Base Resonance: 22 kHz (nominal)
- Sensitivity:
  - CMCP793V: 100mV/In/Sec (4mV/mm/s) ±10% Nominal 80Hz at 22°C
  - CMCP793V-500: 500mV/Sec (20mV/mm/s) ±10% Nominal 80Hz at 22°C
- Frequency Response:
  - 3 Hz to 4.5 kHz ±10% (180 cpm to 270k cpm)
  - 2 Hz to 6 kHz ±3dB (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**

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**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