CMCP797V
Velocity Sensor, Side Entry 2 Pin MS 5015

Features:
- Side Entry 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 or M8x1.25 Captive Mounting Bolt
- Sealed to IP68

Typical Applications

Technical Performance
Mounted Base Resonance: 22 kHz (nominal)
Sensitivity:
CMCP797V: 100mV/In/Sec (4mV/mm/s) ±10% Nominal 80Hz at 22°C
CMCP797V-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)
Isolation: 2 Hz to 6 kHz ±3dB (120 cpm to 260k cpm)
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: 6.5 Oz (185 grams)
Mounting: ¼"-28 UNF or M8x1.25 Captive Mounting Bolt
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

Ordering Information:
CMCP797V
Velocity Sensor, Side Entry 2 Pin MS Connector, 100mV/in/s, ¼-28 UNF Mount
CMCP797V-M8
Velocity Sensor, Side Entry 2 Pin MS Connector, 100mV/in/s, M8x1.25 Mount
CMCP797V-500
Velocity Sensor, Side Entry 2 Pin MS Connector, 500mV/in/s, ¼-28 UNF Mount
CMCP797V-500-M8
Velocity Sensor, Side Entry 2 Pin MS Connector, 500mV/in/s, M8x1.25 Mount

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
CMCP797V-M12
Submersible
CMCP797V-IP
Integral Armored Cable
CMCP797V-I