CMCP422VT-C Series
Loop Powered 4-20mA Velocity Sensor, Top Entry

Features:
- Loop Powered 4-20mA Output
- Velocity Peak or RMS
- 2 Pin MS 5015 Connector (4-20mA Only Model)
- Optional 100mV/g AC Output (Equipped with 3 Pin MS)
- Interfaces Directly to PLC/DCS System
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10Hz to 1kHz ISO Filtering (600 CPM to 60k CPM)
- -13 to 194°F (-25 to 90°C) Temperature Range
- Sealed to IP68

Typical Applications

Technical Performance
Mounted Base Resonance: 5 kHz Min.
Ranges: See Ordering Information Below
Frequency Response: 10 Hz to 1 kHz ± 5%
ISO 10816
600 CPM to 60k CPM
Isolation: Base Isolated
Measurement Range: 50g peak
Transverse Sensitivity: Less than 5% with Faraday Cage

Electrical
Output Current: 4-20mA DC Proportional to RMS or Peak Velocity
Supply Voltage: 15 to 30 VDC
Settling Time: 2 Seconds
Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation: >10⁸ Ohms at 500 Volts

Environmental
Operating Temperature Range: -13 to 194°F (25 to 90°C)
Sealing: IP68
Maximum Shock: 5000 g

Mechanical
Case Material: Stainless Steel
Sensing Element: PZT/Compression Type
Mounting Torque: 5.9 ft. lbs (8Nm)
Weight: 5.2 Oz (150g)
Mounting: 1/4"-28 UNF Mounting Stud (Supplied with Sensor)
Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
Mating Connector: 2 Pin MIL 5015 MS Connector
Electrical Ratings:
$U_i = 28\, \text{V}$; $I_i = 115\, \text{mA}$; $P_i = 0.65\, \text{W}$

Hazardous Location Ratings:
Class I, II, III, Division 1, 2, Groups A-G, T6, -40°C to +60°C, IP65
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C
Zone 20, AEx, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

Dimensions

Typical Frequency Response

Ordering Information:
CMCP422VT -XX -X -XXX Description
-01 1.00 In/Sec Full Scale (25.4mm/Sec)
-02 2.00 In/Sec Full Scale (50.8mm/Sec)
-XXX Specify Full Scale Range
-R RMS Detection
-P Peak Detection
-C 2 Pin MS 5015 Connector
-M12 M12 Eurofast Connector
-I Integral Braided Armor Cable

CMCP422VT-XX-X-I
Integral Armored Cable

CMCP422VT-XX-X-M12
M12 Eurofast Connector