CMCP422VT-I Series
Loop Powered 4-20mA Velocity Sensor, Top Exit Integral Cable

Features:
- Loop Powered 4-20mA Output
- Velocity RMS or Peak
- 5m (16') Braided Armor Integral Cable
- 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 IP65

Typical Applications

Technical Performance
- Mounted Base Resonance: 5 kHz Min.
- Ranges: See Ordering Information Below
- Frequency Response: 10 Hz to 1 kHz ± 5%
- 600 CPM to 60k CPM
- ISO 10816
- 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: >10^8 Ohms at 500 Volts

Environmental
- Operating Temperature Range: -13 to 194°F (25 to 90°C)
- Sealing: IP65
- 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 Quick Fit (Supplied with Sensor)
- Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
- Mating Connector: Braided Armor Cable, 2 Wire with Drain/Shield
**Electrical Ratings:**

\[ U_i = 28V; \ I_i = 115mA; \ P_i = 0.65W \]

**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, IIIC, T6, Ga, -40°C to +60°C
- Zone 20, AEx, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

**Dimensions**

![Dimensions Diagram]

**Typical Frequency Response**

![Typical Frequency Response Graph]

**Ordering Information:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CMCP422VT</td>
<td>-XX -X -XXX Description</td>
</tr>
<tr>
<td>-01</td>
<td>1.00 In/Sec Full Scale (25.4mm/Sec)</td>
</tr>
<tr>
<td>-02</td>
<td>2.00 In/Sec Full Scale (50.8mm/Sec)</td>
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<tr>
<td>-R</td>
<td>RMS Detection</td>
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<tr>
<td>-P</td>
<td>Peak Detection</td>
</tr>
<tr>
<td>-C</td>
<td>2 Pin MS 5015 Connector</td>
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<tr>
<td>-M12</td>
<td>M12 Eurofast Connector</td>
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<tr>
<td>-I</td>
<td>Integral Braided Armor Cable</td>
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<tr>
<td></td>
<td>Specify Cable Length In Meters After -I (Ex. -I20 for 20 Meters)</td>
</tr>
</tbody>
</table>

**Similar Products:**

- CMCP422VT-XX-X-M12
  - M12 Eurofast Connector

- CMCP422VT-XX-X-C
  - 2 Pin MS 5015 Connector