



## CMCP422VT-I Series

### Loop Powered 4-20mA Velocity Sensor, Top Exit Integral Cable



#### Features

- Loop Powered 4-20mA Output
- Velocity RMS or Peak
- 5 m (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
- 10 Hz to 1.0 kHz ISO Filtering (600 CPM to 60k CPM)
- -13 to +248 °F (-25 to +120 °C) Temperature Range
- Sealed to IP65

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

#### Electrical

Output Current: 4-20 mA DC Proportional to RMS or Peak Velocity  
 Supply Voltage: 15 to 30 VDC  
 Settling Time: 2 Second  
 Output Impedance: Loop Resistance 600 Ohms Max @ 24 VDC  
 Case Isolation:  $>10^8$  Ohms at 500 Volts

#### Environmental

Operating Temperature Range: -13 to +248 °F (-25 to +120 °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  
 Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial)  
 Mating Connector: Braided Armor Cable, 2 Wire with Drain/Shield

### Electrical Ratings:

$U_i=28V$ ;  $I_i = 115mA$ ;  $P_i = 0.65W$

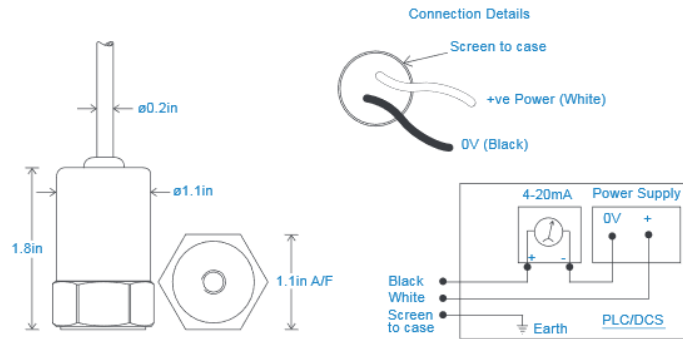
### Hazardous Location Ratings:

Class I, II, III, Division 1, 2, Groups A-G, T6 -40°C to +60°C, IP65

Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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

### Dimensions



### Ordering Information

CMCP422VT	-XX	-X	-XXX	Description
Imperial System	-01			Loop Powered 4-20 mA Velocity Sensor 1.00 In/Sec Full Scale (25.4 mm/s) 2.00 In/Sec Full Scale (50.8 mm/s)
Metric System	-10			10 mm/s Full Scale
	-20			20 mm/s Full Scale
	-25			25 mm/s Full Scale
	-50			50 mm/s Full Scale
	-100			100 mm/s Full Scale
		-R		RMS Detection
		-P		Peak Detection
			-I	<b>Integral Braided Cable, IP65 (5 Meters Long)</b>

**Example Part Number:** CMCP422VT-01-R-I10 Loop Powered 4-20 mA Velocity Sensor, Full Scale 1.0 Inch/Second, RMS Detection and 10-meter integral braided cable

**Specify desired Cable Length in Meter after I (ex. I20 for 20 meter)**

### Similar Products



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



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