STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems
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Condition Monitoring Custom Products

CMCP422VTS-IP Series
Loop Powered 4-20mA Velocity Sensor
IP68 Submersible Integral Cable

Features

- Loop Powered 4-20 mA Output
- 100 mV/g Dynamic Output
- Velocity RMS or Peak
- Side Exit Submersible PUR Cable
- Interfaces Directly to PLC/DCS System
- 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 IP68

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 1.0 kHz ± 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

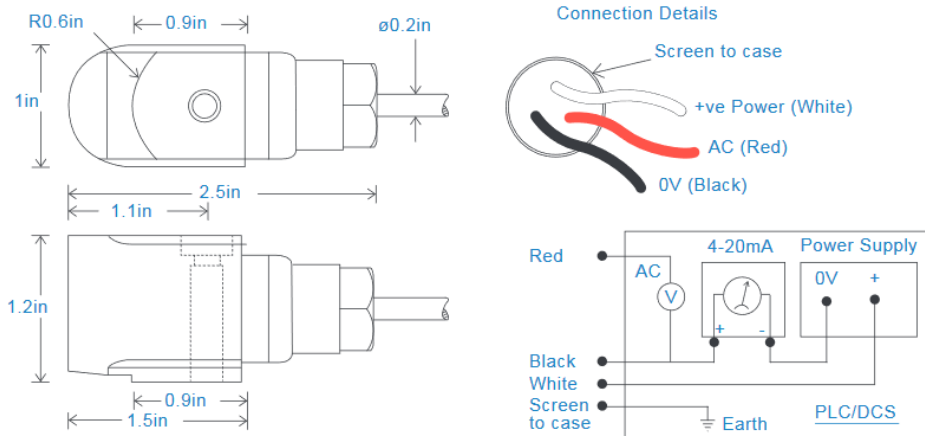|	
Output Current:	4-20 mA DC Proportional to RMS or Peak Velocity
Raw Output:	100 mV/g +/-10%
Supply Voltage:	15 to 30 VDC
Settling Time:	2 Second
Output Impedance:	Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation:	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range:	-13 to +248 °F (-25 to +120 °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:	6.5 Oz (185g)
Mounting:	1/4"-28 Captive Bolt
Mating Connector:	PUR Cable, 4 Wires with Drain/Shield

Dimensions

Ordering Information

CMCP422VTS	-XX	-X	-XXX	Description
				Loop Powered 4-20 mA Velocity Sensor, Side Exit
Imperial System	-01			1.00 In/Sec Full Scale (25.4 mm/s)
	-02			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
			-IP	**Integral PUR Cable, IP68 Submersible (5 Meter Long)**

Example Part Number: CMCP422VTS-01-R-IP10 Loop Powered 4-20 mA Velocity Sensor with side exit, Full Scale 1.0 Inch/Second, RMS Detection and 10-meter integral braided cable

Specify desired Cable Length in Meter after IP (ex. IP20 for 20 meter).

Similar Products

CMCP422VTS-XX-X-M12
M12 Eurofast Connector

CMCP422VTS-XX-X-C
2 Pin MS 5015 Connector