STI
STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems
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Predictive Maintenance Essentials

CMCP422VTS-D Series with Dynamic Output
4-20 mA Velocity Sensor, Side Exit, 3-Pin MS 5015 Connector

Features

- Loop Powered 4-20 mA Output
- Velocity Output with RMS or Peak Detectic..
- 100 mV/g Dynamic Output
- Side Exit for Flush Installations
- 3-Pin MS 5015 or 4-Pin M12 Connector
- Interfaces Directly with Control Systems (PLC/DCS)
- Selectable Full-Scale Ranges
- 10 Hz to 1.0 kHz +/-5% Frequency Response (600 CPM to 60 kCPM)
- Sealed to IP68 (or IP67 with M12 Connector)
- -25 to +120°C (-13 to 248°F) Temperature Rating
- Lifetime Warranty

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.
Analog Output:	4-20 mA, Between Pin 1 and 2
Dynamic Output:	100 mV/g Between Pin 3 and 2
Frequency Response:	10 Hz to 1.0 kHz ± 5%, (600 CPM to 60 kCPM), ISO 20816
Isolation:	Base Isolated
Measurement Range:	50 g peak
Transverse Sensitivity:	Less than 5% with Faraday Cage

Electrical
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Output Current:	4-20 mA DC Proportional to RMS or Peak Velocity
Supply Voltage:	15 to 30 VDC
Settling Time:	1 Second
Output Impedance:	Loop Resistance 600 Ohm Max @ 24 VDC
Case Isolation:	$>10^8$ Ohm at 500 Volt
Ratings:	U_i=28V; I_i = 115mA; P_i = 0.65W

Environmental
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Operating Temperature Range:	-13 to 248°F (-25 to 120°C)
Sealing:	IP68 (IP67 with M12 Connector)
Maximum Shock:	5000 g

Mechanical
Case Material:	Stainless Steel
Sensing Element:	PZT/Shear Type
Mounting Torque:	5.9 ft. lbs (8Nm)
Weight:	6.5 Oz (185 g) Sensor only

Mounting:
CMCP422VTS-XXD-X-C:	1/4"-28 UNF Captive Bolt Supplied with Sensor
CMCP422VTS-XXD-X-C-M8:	M8x1.25 Captive Bolt Supplied with Sensor

Mating Connector:
CMCP422VTS-XXD-X-C:	3 Pin MIL 5015 MS Connector
CMCP422VTS-XXD-X-M12:	4 Pin M12 Eurofast Connector
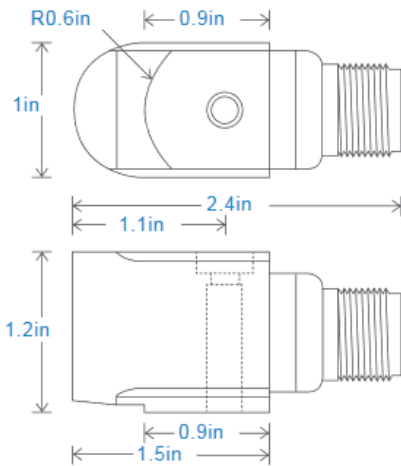
Dimensions
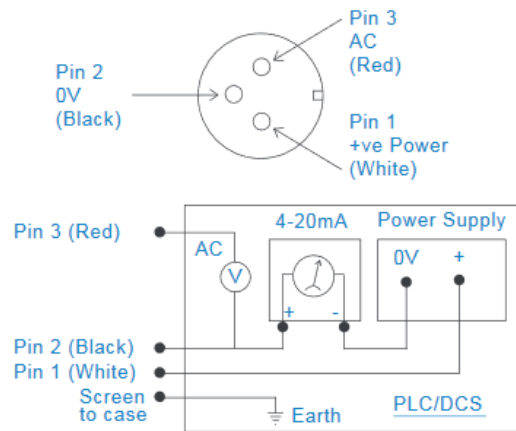
Typical Frequency Response
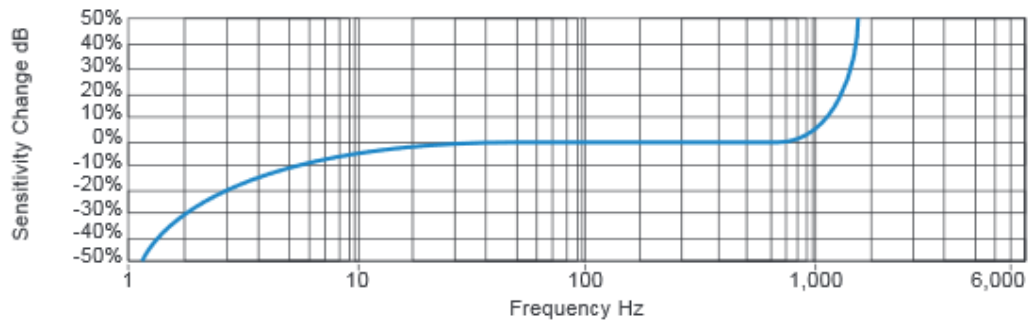
Ordering Information

CMCP422VTS	-XXD	-X	-XXX	Description
	-01**D**			1.00 In/Sec Full Scale (25.4 mm/s) with Dynamic AC Output
	-02**D**			2.00 In/Sec Full Scale (50.8 mm/sec) with Dynamic AC Output
		-R		RMS Detection
		-P		Peak Detection
			-C	**3 Pin MS 5015 Connector**
			-M12	M12 Eurofast Connector
			-I	Integral Braided Armor Cable (5 meter)
			-IP	Intergal PUR Cable (5 meter)

Example Part Number: CMCP422VTS-01D-R-C Loop Powered 4-20 mA Velocity Sensor, Side Exit, Full Scale 1.0 In/Sec, RMS Detection, Dynamic Output and 3 Pin MS 5015 Connector

Similar Products

CMCP422VTS-XXD-X-M12
M12 Eurofast Connector

CMCP422VTS-XXD-X-IP
PUR Integral Cable

CMCP422VTS-XXD-X-I
Braided Integral Cable

Note: Due to STI's continuous process improvement, specifications are subject to change without notice.