



CMCP422AT-I Series

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



Features

- Loop Powered 4-20mA Output
- Acceleration 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
- 10 Hz to 5.0 kHz Filtering (600 CPM to 300 kCPM)
- -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: 10 kHz Min.
 Ranges: See Ordering Information Below
 Frequency Response: 10 Hz to 5.0 kHz ± 5%
 600 CPM to 300 kCPM
 Isolation: Base Isolated with Faraday Cage
 Transverse Sensitivity: Less than 5%

Electrical

Supply Voltage: 15 to 30 VDC
 Settling Time: 2 Second
 Output Current: 4-20mA DC Proportional to RMS or Peak Acceleration (g)
 Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
 Case Isolation: >10⁸ 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 Quick Fit (Supplied with Sensor)
 Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial)
 Mating Connector: 5 Meter (16') Braided Armor Cable, 2 Wire with Drain/Shield

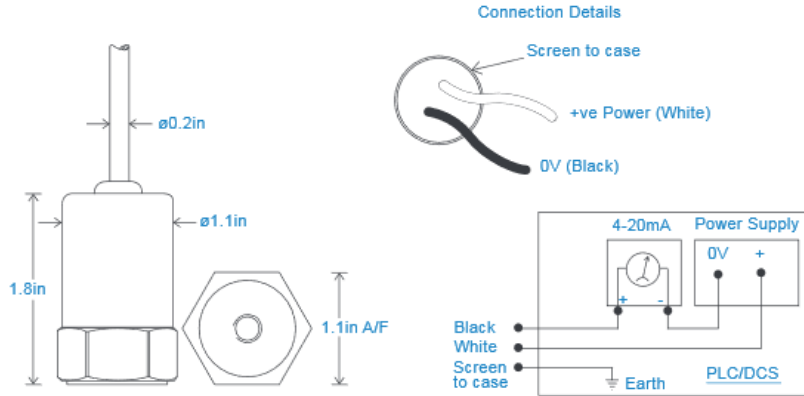
Electrical Ratings

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

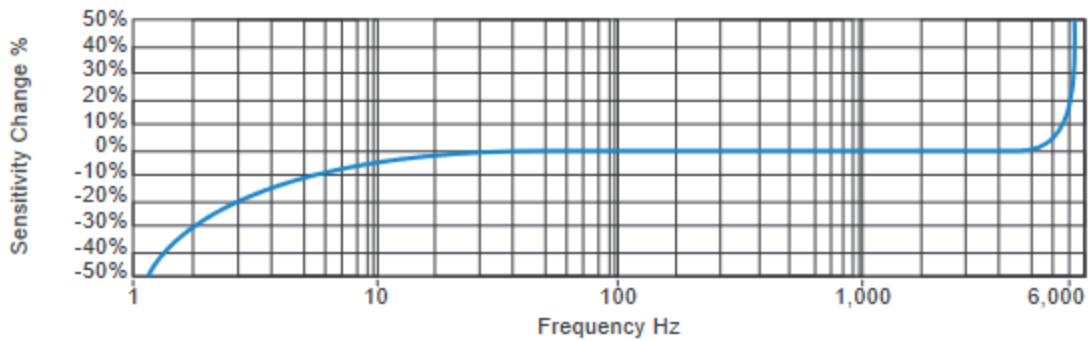
Hazardous Location Ratings:

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



Typical Frequency Response



Ordering Information

CMCP422AT	-XX	-X	-XXX	Description
	-01			1 g Full Scale
	-02			2 g's Full Scale
	-05			5 g's Full Scale
	-10			10 g's Full Scale
		-R		RMS Detection
		-P		Peak Detection
			-C	2 Pin MS 5015 Connector
			-I	Integral Braided Armor Cable (5 meters)

Specify desired Cable Length in Meter after I (for example I20 for 20 meter)

Similar Products



CMCP422AT-XX-X-M12
M12 Eurofast Connector



CMCP422AT-XX-X-C
2 Pin MS 5015 Connector