



CMCP422AT-M12 Series

Loop Powered 4-20mA Acceleration Sensor, Top Exit M12 Connector



Features:

- Loop Powered 4-20mA Output
- Acceleration RMS or Peak
- 4 Pin M12 Eurofast Connector
- Interfaces Directly to PLC/DCS System
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10 to 5kHz (600 CPM to 300k CPM)
- -13 to 194°F (-25 to 90°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: 10 kHz Min.
 Ranges: See Ordering Information Below
 Frequency Response: 10 Hz to 5 kHz ± 5%
 600 CPM to 300k CPM
 ISO 10816
 Isolation: Base Isolated with Faraday Cage
 Transverse Sensitivity: Less than 5%

Electrical

Output Current: 4-20mA DC Proportional to RMS or Peak Acceleration
 Supply Voltage: 15 to 30 VDC
 Settling Time: 2 Seconds
 Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
 Case Isolation: >10⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range: -13 to 194°F (25 to 90°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: 5.2 Oz (150g)
 Mounting: 1/4"-28 UNF Mounting Stud (Supplied with Sensor)
 Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
 Mating Connector: 4 Pin M12 Cordset

Electrical Ratings:

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

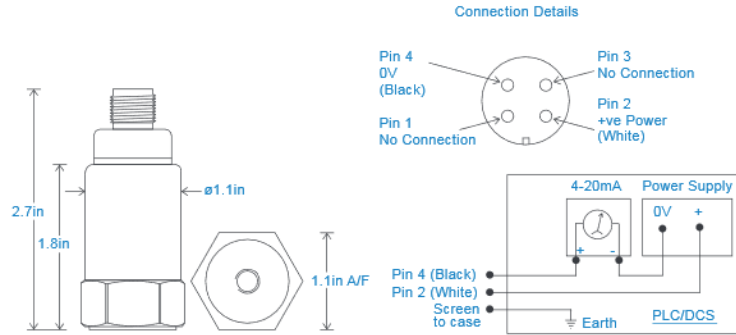
Hazardous Location Ratings:

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

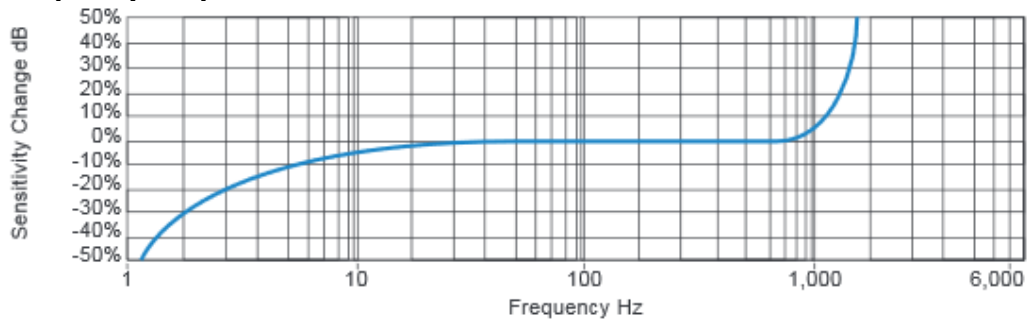
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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
	-20			20 g's Full Scale
		-R		RMS Detection
		-P		Peak Detection
			-C	2 Pin MS 5015 Connector
			-M12	M12 Eurofast Connector
			-I	Integral Braided Armor Cable (5 meters)

Similar Products:



CMCP422AT-XX-X-I
Integral Armored Cable



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

