Condition Monitoring Custom Products

CMCP422AT-C Series
Loop Powered 4-20 mA Acceleration Sensor, Top Exit Connector

Features

- Loop Powered 4-20 mA Output
- Acceleration Peak or RMS
- Interfaces Directly to PLC/DCS System
- Top Exit: 2 Pin MS 5015 or 4 Pin M12 Connector
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10 Hz to 1.0 kHz ISO Filter (600 CPM to 300k CPM)
- -13 to +248 °F (-25 to +120 °C) Temperature Range
- Sealed to IP68 (IP67 with M12 Connector)

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 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:	4-20 mA DC Proportional to RMS or Peak Acceleration (g)
Output Impedance:	Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation:	$>10^8$ Ohms at 500 Volt

CMCP422AT-XX-X-M12
M12 Eurofast Connector

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:	5.2 Oz (150g)
Mounting:	1/4"-28 UNF Mounting Stud (Supplied with Sensor)
	Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial)
-C Mating Connector:	2 Pin MIL 5015 MS Connector
-M12 Mating Connector:	4 Pin M12 Eurofast Connector

Electrical Ratings:
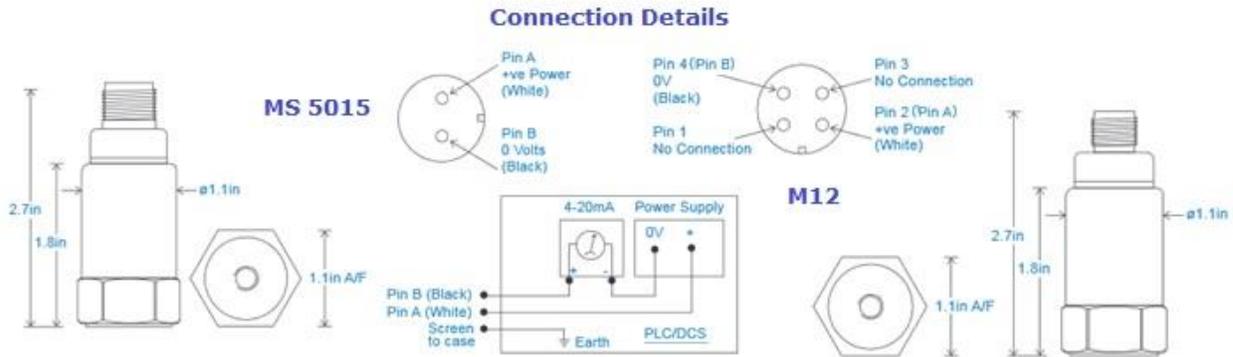U_i=28V; I_i = 115mA; P_i = 0.65W

Hazardous Location Ratings:
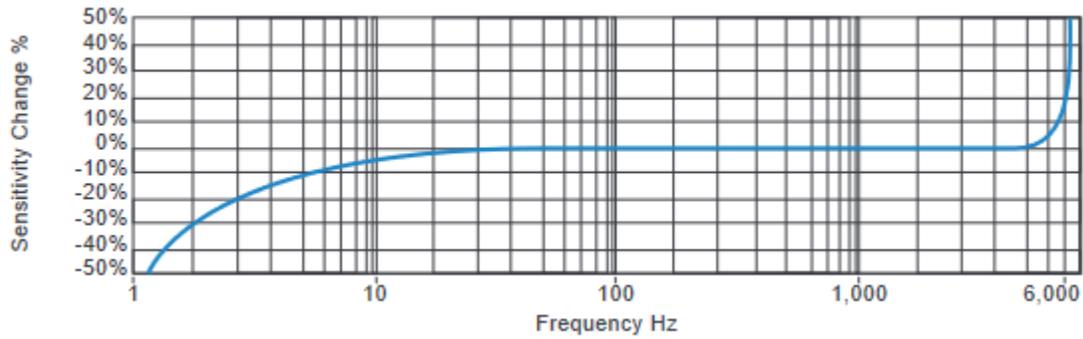Class I, II, III, Division 1, 2, Groups A-G, T6 -40°C to +60°C, IP65
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C
Zone 20, AEx, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

Dimensions

Typical Frequency Response

Ordering Information:

CMCP422AT	-XX	-X	-XXX	Description
	-01			1 g Full Scale
	-02			2 g Full Scale
	-05			5 g Full Scale
	-10			10 g Full Scale
		-R		RMS Detection
		-P		Peak Detection
			-C	**2 Pin MS 5015 Connector**
			-M12	M12 Eurofast Connector

Example Part Number: CMCP422AT-05-R-C Loop Powered 4-20 mA Acceleration Sensor, Full Scale 5.0 g, RMS Detection and 2 Pin MS 5015 Connector

Similar Products

CMCP422AT-XX-X-I
Integral Armored Cable