



CMCP422ATS-M12 Series

Loop Powered 4-20 mA Acceleration Sensor,
Side Exit, IP68, 4-Pin M12 Connector



Features

- Loop Powered 4-20 mA Output
- Acceleration RMS or Peak Detection
- Side Exit for Flush Installations
- 4-Pin M12 Connector
- Interfaces Directly with Control Systems (PLC/DCS)
- Four Different Ranges Available
- 10 Hz to 5.0 kHz +/-5% Frequency Response (600 CPM to 300 kCPM)
- Sealed to IP68
- -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:	10 kHz Min.
Ranges:	1, 2, 5 or 10 g; to specify see Ordering Information below
Frequency Response:	10 Hz to 5.0 kHz ± 5% 600 CPM to 300k CPM
Isolation:	Base Isolated with Faraday Cage
Transverse Sensitivity:	Less than 5%

Electrical

Output Current:	4-20 mA DC Proportional to RMS or Peak Acceleration (g)
Supply Voltage:	15 to 30 VDC
Settling Time:	2 Second
Output Impedance:	Loop Resistance 600 Ohm Max @ 24 VDC
Case Isolation:	>10 ⁸ Ohm at 500 Volt

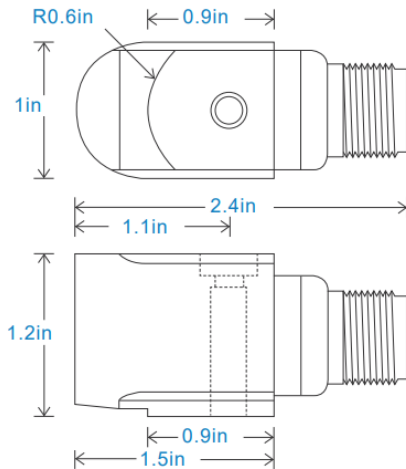
Environmental

Operating Temperature Range:	-13 to +248°F (-25 to +120°C)
Sealing:	IP68
Maximum Shock:	5000 g

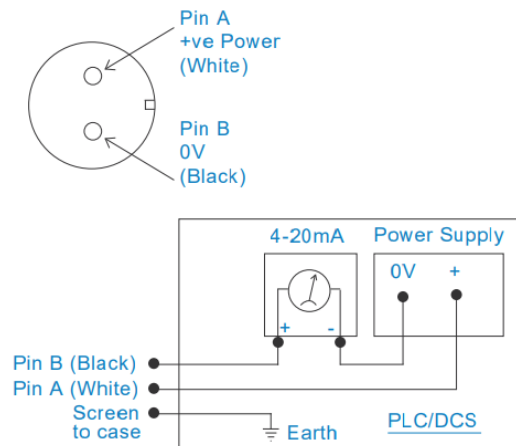
Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear Type
Mounting Torque:	5.9 ft. lbs (8Nm)
Weight:	6.5 Oz (185 g) Sensor only
Mounting:	
CMCP422ATS-XX-X-M12:	1/4"-28 UNF Captive Bolt Supplied with Sensor
CMCP422ATS-XX-X-M12-M8:	M8x1.25 Captive Bolt Supplied with Sensor
Mating Connector:	
CMCP422ATS-XX-X-M12:	4 Pin M12 Eurofast Connector
CMCP422ATS-XX-X-C:	2 Pin MIL 5015 MS Connector

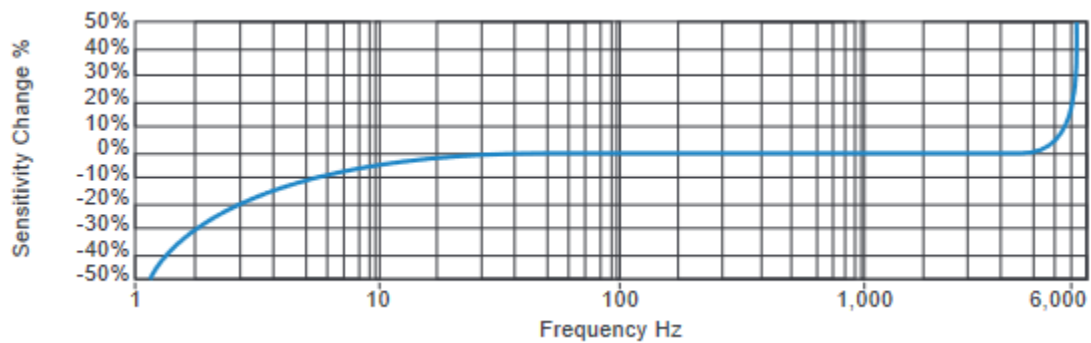
Dimensions



Connection Details



Typical Frequency Response



Ordering Information

CMCP422ATS	-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
			-M12	M12 Eurofast Connector
			-C	2 Pin MS 5015 Connector
			-IP	Integral PUR Submersible Cable
			-I	Armored Braided Integral Cable

Example Part Number: CMCP422ATS-05-R-M12

Loop Powered 4-20 mA Acceleration Sensor, Full Scale 5.0 g, RMS Detection and 4 Pin M12 Connector

Similar Products



CMCP422ATS-XX-X-C
2 Pin MS 5015 Connector



CMCP422ATS-XX-X-IP
PUR Integral Cable



CMCP422ATS-XX-X-I
Braided Integral Cable

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