



CMCP788A-I Premium Top Entry Accelerometer, Armored Braided Cable



Features

- Precision Top Entry Accelerometer
- 100 mV/g $\pm 5\%$
- 150°C Max Temperature Range
- ± 80 g Dynamic Range
- Integral Braided Armored Cable
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- $\frac{1}{4}$ "-28 UNF and M8x1.25 Mounting Studs Included
- 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:	30 kHz (nominal)
Sensitivity:	100 mV/g $\pm 5\%$ Nominal 80 Hz at 22°C
Frequency Response:	1.5 Hz to 10 kHz $\pm 5\%$ (90 cpm to 600 kcpm)
	0.5 Hz to 12 kHz $\pm 10\%$ (30 cpm to 780 kcpm)
	0.2 Hz to 15 kHz $\pm 3\text{dB}$ (12 cpm to 900 kcpm)
Isolation:	Base Isolated
Measurement Range:	± 80 g
Transverse Sensitivity:	Less than 5%

Electrical

Supply Voltage:	18-30 VDC
Current Range:	0.5 to 8 mA
Bias Voltage:	10-12 VDC
Electrical Noise:	0.1 mg Max.
Settling Time:	1 Second
Output Impedance:	200 Ohm Max.
Case Isolation:	$>10^8$ Ohm at 500 Volt

Environmental

Operating Temperature Range:	-67 to 302°F (-55 to 150°C)
Sealing:	IP65
Maximum Shock:	5000 g
Approvals:	CE and UKCA Approved CSA/UL Class 1 Division 2, Groups B, C and D

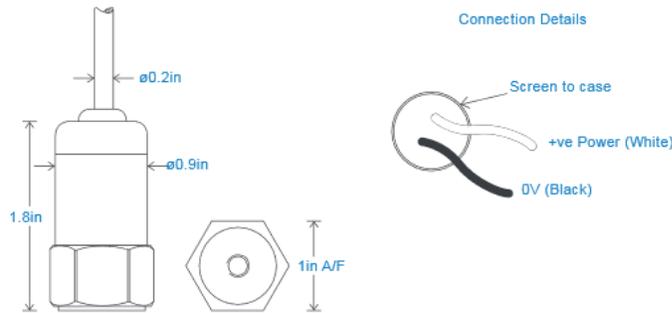
Mechanical

Case Material:	Stainless Steel
Sensing Element/Construction:	PZT/Shear
Mounting Torque:	5.9 ft-lbs (8 Nm)
Weight:	4.9 Oz (139 gram), Sensor only
Mating Connector:	Flying Leads (Integral Braided Armored Cable)
Mounting Thread:	$\frac{1}{4}$ -28 UNF Female $\frac{1}{4}$ -28 UNF and M8x1.25 Mounting Studs Provided

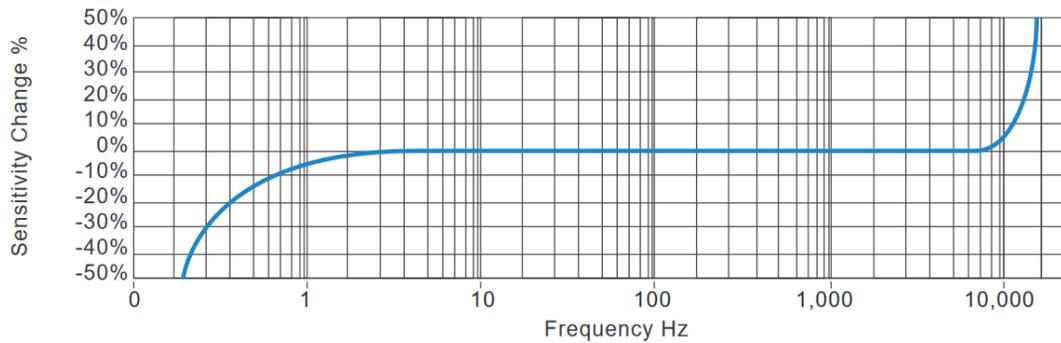
Hazardous Location Ratings

Class I, II, III, Division 1 and 2, Groups A-G, T4, -55°C to +110°C IP65
 Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to +110°C
 Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -55°C to +110°C
 Class I, II, III, Division 1, 2, Groups A-G, T6, -55°C to +110°C
 Zone 20, AEx, ia, IIIX, T80°C, IP65, DA, -55°C to +110°C

Dimensions



Frequency Response



Ordering Information

CMCP788A-I Precision Top Entry Accelerometer, 100 mV/g, Armored Cable Length 5 Meter (16 ft)
 CMCP788A-**IXX** Precision Output Top Entry Accelerometer, 100mV/g, Integral Braided Armored Cable
 Specify Cable Length in Meters in Place of XX (CMCP788A-I10 for 10 Meters)

Alternative Sensitivity Ordering Information

Part Number	Sensitivity	Measurement Range	Base Resonance
CMCP788A-I-10	10 mV/g	±800 g	34 kHz
CMCP788A-I-30	30 mV/g	±250 g	33 kHz
CMCP788A-I-50	50 mV/g	±160 g	32 kHz
CMCP788A-I-250	250 mV/g	±32 g	28 kHz
CMCP788A-I-500	500 mV/g	±16 g	26 kHz

Similar Products



M12 Connector
CMCP788A-M12



Submersible
CMCP788A-IP



MS Connector
CMCP788A