

CMCP1100C Series Low-Cost Compact Accelerometer with M8 Connector



Features

- Compact Accelerometer
- 100 mV/g $\pm 10\%$
- 0.32 Hz to 10 kHz Frequency Response
- 3 Pin M8 Connector
- Waterproof, Epoxy Encapsulated
- UV and Oil Resistant
- Stainless Steel Case



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:	>25 kHz (nominal)
Sensitivity:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22°C
Frequency Response:	1.5 Hz to 8 kHz $\pm 10\%$ (90 cpm to 480 kcpm) 0.32 Hz to 10 kHz $\pm 3\text{dB}$ (19.2 cpm to 600 kcpm)
Isolation:	Case Isolated
Measurement Range:	± 50 g
Transverse Sensitivity:	Less than 5%

Electrical

Supply Voltage:	18 to 28 VDC
Current Range:	2 to 20 mA
Bias Voltage:	8-12 Vdc
Electrical Noise:	0.1 mg max.
Settling Time:	2.5 Second
Output Impedance:	<100 Ohm max.
Case Isolation:	>10 ⁸ Ohm at 500 Volt

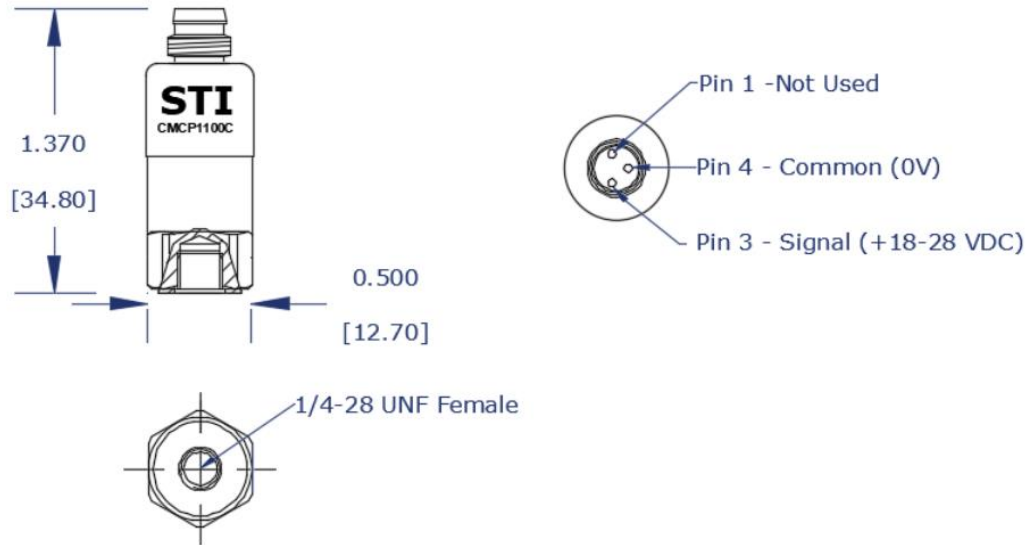
Environmental

Operating Temperature Range:	-65 to 185°F (-54 to 85°C)
Sealing:	Epoxy Encapsulated
Maximum Shock:	7,000 g
Approvals:	CE Approved

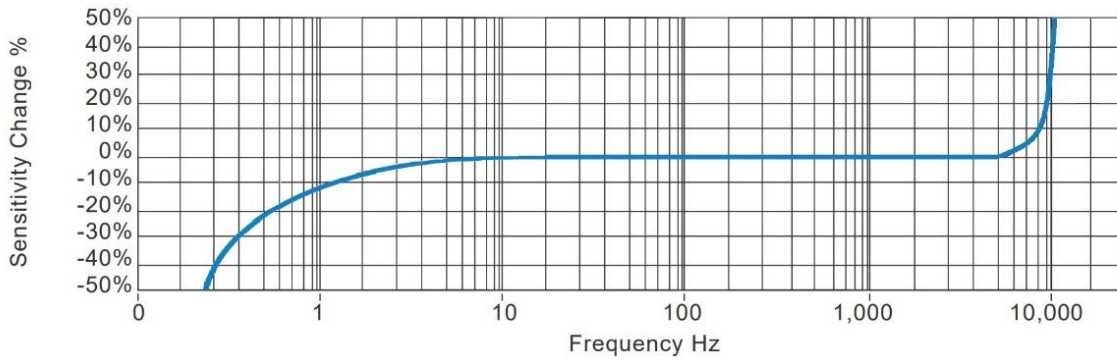
Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9 ft-lbs (8 Nm)
Weight:	2.5 Oz (70.7 gram)
Connector:	3 Pin M8

Dimensions and Wiring



Typical Frequency Response



Ordering Information

CMCP1100C Low-Cost Compact Accelerometer with M8 Connector

Similar Products



Integral Cable
CMCP1100



Compact MS Connector
CMCP770A



M12 Connector
CMCP785A-M12



MS Connector
CMCP782A