

CMCP1100 Series Low-Cost Compact Accelerometer with Integral Cable



Features

- Compact Accelerometer
- 100 mV/g $\pm 10\%$
- 0.32 Hz to 10 kHz Frequency Response
- Waterproof, Epoxy Encapsulated
- Integral TPE Jacketed Cable
- UV and Oil Resistant
- Stainless Steel Case
- 5, 10 and 20 Meter Stocked Cable Lengths

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

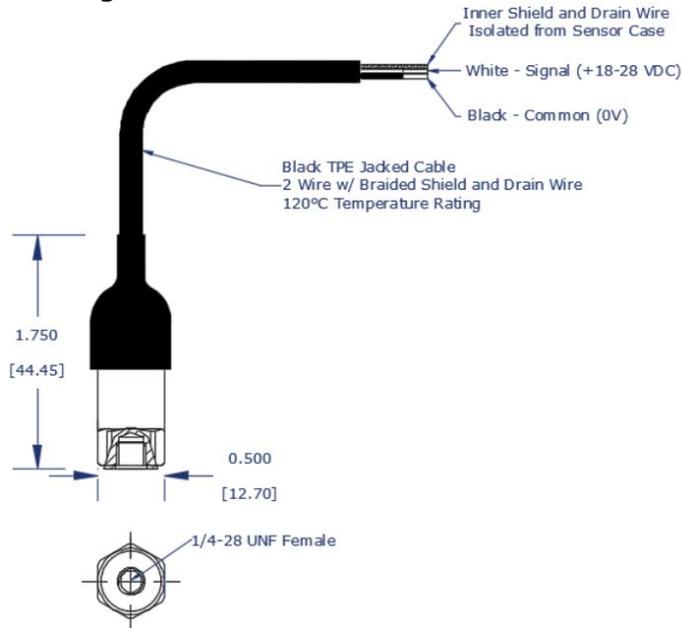
Environmental

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

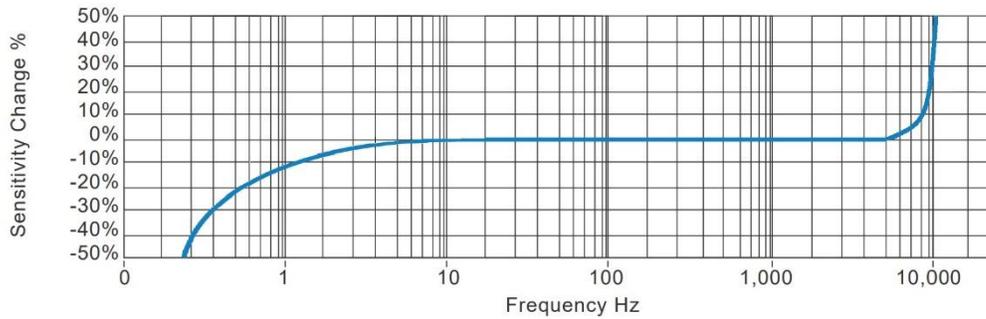
Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9 ft-lbs (8 Nm)
Weight:	2.5 Oz (70.7 gram)
Cable Jacket:	TPE (Thermoplastic elastomers)
Cable Length:	See Ordering Information
Mounting Thread:	1/4-28 UNF

Dimensions and Wiring



Typical Frequency Response



Ordering Information

CMCP1100	-XX	-XX	-XX	Description
	-05			5 Meter (16') Integral Cable
	-10			10 Meter (32') Integral Cable
	-20			20 Meter (64') Integral Cable
		-00		Flying Leads (Bare Wire)
		-01		Female BNC Connector
		-02		Male BNC Connector
			-00	Standard TPE Cable
			-03	TPE Jacketed Cable with Stainless Steel Braided Armor

Example Part Number: CMCP1100-05-00-00 (5 Meter Cable, Flying Leads, Standard TPE Cable)

Similar Products



Side Exit
CMCP1100S



High Temperature Cable
CMCP1100HT



M8 Connector
CMCP1100C



Integral Armored Cable
CMCP786A-I