

Vibration Monitoring and Machine Protection Systems

1010 East Main Street, League City, TX 77573 Phone:281.334.0766 Fax: 281.334.4255 www.stiweb.com / www.stiwebstore.com

CMCP770A Compact Top Entry Accelerometer, 2 Pin MS 5015





Features:

- Compact Top Exit Accelerometer
- 100mV/g ±10%
- 130° Max Temperature Range
- ±80g Dynamic Range
- 2 Pin MS 5015 Connector
- 1/4"-28 UNF and M8x1.25 Mounting Studs Included
- Sealed to IP68

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: 28 kHz (nominal)

Sensitivity: $100 \text{mV/g} \pm 10\% \text{ Nominal } 80 \text{Hz at } 22^{\circ}\text{C}$

Frequency Response: 1.5 Hz to 16 kHz \pm 10% (90 cpm to 960k cpm)

0.8 Hz to 19 kHz ±3dB (48 cpm to 1,140k cpm)

Isolation: Base Isolated

Measurement Range: ±80 g

Transverse Sensitivity: Less than 5%

Electrical

Electrical Noise:

Current Range:

Bias Voltage:

Settling Time:

Output Impedance:

0.1mg max

0.5mA to 8mA

10-12 Vdc

1 Second

200 Ohms max.

Case Isolation: >108 Ohms at 500 Volts

Environmental

Operating Temperature Range: -67 to 266°F (-55 to 130°C)
Sealing: IP68 / Hermetically Sealed

Maximum Shock: 5000 g Approvals: CE Approved

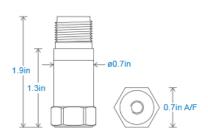
Mechanical

Case Material: Stainless Steel
Sensing Element: PZT/Shear
Mounting Torque: 5.9ft. lbs (8Nm)
Weight: 1.8 Oz (52 grams)
Mating Connector: 2 Pin MS 5015 Connector

Mounting: 1/4-28 UNF and M8x1.25 Mounting Studs Provided

Dimensions

Connection Details





Ordering Information:

CMCP770A Compact Accelerometer, Top Exit, 100mV/g with 2 Pin MS 5015

Alternative Sensitivity Ordering Information:

CMCP770A-XXX Specify Sensitivity in Place of –XXX

50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

Recommended Cable Assemblies:

General Purpose TPE Jacketed Cable (Rated to 120°C)

CMCP602L Series 2 Socket MS Connector, Locking Collar, IP67 CMCP602LST Series 2 Socket MS Connector, Push On Seal Tight, IP68

High Temperature FEP Jacketed Cable (Rated to 200°C)

CMCP602H Series 2 Socket MS Connector, Locking Collar, IP67 CMCP602HST Series 2 Socket MS Connector, Push On Seal Tight, IP68