



# LCF-200

## Description

- Input Range of ±0.5g to ±5.0g
- Exceptional bias and scale factor.



The LCF-200 Series Flexure Suspension Fluid Damped Accelerometer is a  $\pm 0.5$ G to  $\pm 5$ G device designed for applications where high levels of shock and vibration are present. LCF units are characterized by excellent turn on repeatability and very low hysteresis.

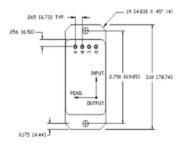
#### Features

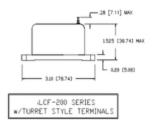
- $\bullet$  ±0.5g to ± 5.0g Full Range
- Filtering 5 to 100 Hz Bandwidth
- Exceptional Bias & Scale Factor
- High Level ± Vdc Output
- 1,500g Shock Capability

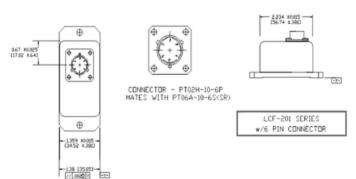
# Applications

- Geophysical Testing
- Railcar Acceleration Control
- Railcar Deceleration Control
- Ocean Buoy Acel Sensing
- Aircraft Stability Control
- Aircraft Flight Testing
- Vehicle Roadway Profiling

### Outline Diagram







#### Pin Out

Pin A	+12 to +18 VDC
Pin B	-12 to -18 VDC
Pin C	Power/Signal Common
Pin D	Eo (Volts/g)



#### Performance Specifications

# STATIC/DYNAMIC

±0.5	±1	±2	±5
±5.00	±5.00	±5.00	±5.00
10	5	2.5	1 Scale
100	100	100	100
30.00	30.00	30.00	30.00
30.0	30.0	30.0	30.0
0.71	0.71	0.71	0.71
0.71	0.71	0.71	0.71
±0.005	±0.005	±0.005	±0.005
50	50	50	50
1	1	1	1
	±5.00 10 100 30.00 30.0 0.71 0.71 ±0.005	±5.00 ±5.00  10 5  100 100  30.00 30.00  30.0 30.0  0.71 0.71  0.71 0.71  ±0.005 ±0.005	±5.00     ±5.00     ±5.00       10     5     2.5       100     100     100       30.00     30.00     30.00       30.0     30.0     30.0       0.71     0.71     0.71       0.71     0.71     0.71       ±0.005     ±0.005     ±0.005

#### **ELECTRICAL**

Number of Axes:	1
Input Voltage Range, (VDC):	±12 to ±18
Input Current, mA, max:	15
Output Impedance, Ohms, nom:	100
Noise, grms, maximum:	0.001

# **ENCLOSURE**

Weight oz:	4	
Seal:	MIL-STD-202, Mtd. 112	

#### **ENVIRONMENTAL**

Operating Temp Range:	-40°C to+80°C
Storage Temp Range:	-40°C to +90°C
Vibration grms:	20
Shock:	1000 g, 1 msec, ½ sine

Notes: 1 - Full range is defined as "from negative full input acceleration."

2 - Referenced to best-fit straight line independent of misalignment.

3 - Output phase angle = -90°.

#### Order code

LCF-200-.5g 458200-001 LCF-200-1.0g 458200-004 LCF-200-2.0g 458200-002 LCF-200-5.0g 458200-003