LCF-200 Series Accelerometer



Making Sense out of Motion...

Input Range of ±0.5g to ±5.0g with exceptional bias and scale factor.

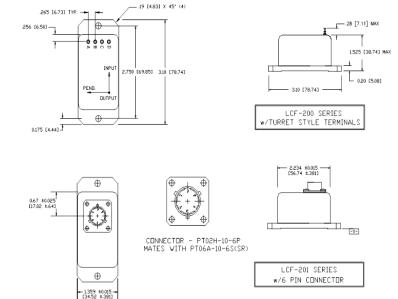


Dimensional Diagram: LCF-200 Series Accelerometer

The Jewell **LCF-200 Series** Flexure Suspension Fluid Damped Accelerometer is a $\pm 0.5G$ to $\pm 5G$ 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 & Benefits

- ±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



Pin Out: LCF-200 Series Accelerometer

Applications

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

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



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LCF-200 Series Accelerometer Specifications

STATIC/DYNAMIC

Input Range, g:	±0.5	±1	±2	±5	
Full Range Output (FRO -Note 1) VDC ±0.5%:	±5.00	±5.00	±5.00	±5.00	
Scale Factor, Volts/g, nominal:	10	5	2.5	1	
Scale Factor Temp. Sensitivity (SFTS), PPM /°C maximum:	100	100	100	100	
Natural Frequency, Hz nominal (Note 3):	30.00	30.00	30.00	30.00	
Bandwidth (-3 dB), Hz nominal:	30.0	30.0	30.0	30.0	
Output Axis Misalignment, ° maximum:	0.71	0.71	0.71	0.71	
Pendulous Axis Misalignment, ° maximum:	0.71	0.71	0.71	0.71	
Bias, g range:	±0.005	±0.005	±0.005	±0.005	
Bias Temperature Sensitivity, μg /°C maximum:	50	50	50	50	
Resolution and Threshold, µg maximum:	1	1	1	1	

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

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°.

How to Order

LCF-2005g	458200-001
LCF-200-1.0g	458200-004
LCF-200-2.0g	458200-002
LCF-200-5.0g	458200-003