



LCA-100 Series



Description

The LCA-100 Series is a single axis accelerometer that is ±12 to ±18 Vdc and is also D0-160 approved for aerospace applications. The LCA-100 Accelerometer is a general-purpose ±0.5g to ±5g device designed for industrial, commercial and aerospace sensing requirements.

Features

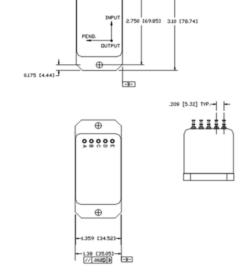
- Filtering Available
- Available in 28V Aircraft Input
- Connector or Pin Configuration

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- 0.20% 10-year Scale Factor Stability
- Wide Bandwidths for Higher Range Applications

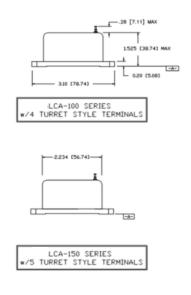
19 [4.83] X 45° (4)

Outline Diagram



Applications

- Aircraft Flight Controls
- Aircraft Fatigue Monitoring
- Train Performance Testing
- Aircraft Autopilot System Input
- Aircraft Winds-shear Detection
- Double Integrated Railcar Position
- Rail Automated Train Controls



Pin out (Options: C-connector, P-Pin)

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	±1.0	±2.0	±5.0	
±5.0	±5.0	±5.0	±5.0	
10.0	5.0	2.5	1.0	
180	180	180	180	
60.00	60.00	60.00	60.00	
60.0	60.0	60.0	60.0	
0.71	0.71	0.71	0.71	
0.71	0.71	0.71	0.71	
±0.01	±0.01	±0.01	±0.01	
100	100	100	100	
10	10	10	10	
	±5.0 10.0 180 60.00 60.0 0.71 0.71 ±0.01 100	±5.0 ±5.0 10.0 5.0 180 180 60.00 60.00 60.0 60.0 0.71 0.71 0.71 0.71 ±0.01 ±0.01 100 100	±5.0 ±5.0 ±5.0 10.0 5.0 2.5 180 180 180 60.00 60.00 60.00 60.0 60.0 60.0 0.71 0.71 0.71 0.71 0.71 0.71 ±0.01 ±0.01 ±0.01 100 100 100	±5.0 ±5.0 ±5.0 ±5.0 10.0 5.0 2.5 1.0 180 180 180 180 60.00 60.00 60.00 60.00 60.0 60.0 60.0 60.0 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71 ±0.01 ±0.01 ±0.01 ±0.01 100 100 100 100

ELECTRICAL

Number of Axes:	1
Input Voltage Range, (VDC):	±12 to ±18
Input Current, mA, max:	25
Output Impedance, Ohms, nom:	100
Noise, Vrms, maximum:	0.005

ENVIRONMENTAL

Operating Temp Range:	-55°C to +85°C
Storage Temp Range:	-60°C to +90°C
Vibration grms:	0
Shock:	100a. 0.011 sec. ½ sine

ENCLOSURE

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Notes:

Note 1: Full Range is defined "from negative full input acceleration to positive full input acceleration."

Note 2: Nonlinearity is specified as deviation of output referenced to theoretical sine function value, independent of misalignment.

Note 3: Output Phase angle = - 90°.

Order code

LCA-100-0.5g	451040-006
LCA-100-1g	451040-004
LCA-100-2g	451040-001
LCA-100-5a	451040-002

Page 2/2