

**Input Ranges From  $\pm 1.0^\circ$  to  $\pm 90^\circ$  With High Reliability, High Resolution, and Dual Axis**

The Jewell **LCF 2000 Series** dual axis inclinometer is a rugged, high accuracy version of the LCF Series. It is available with a wide range of custom options including single ended input power, internal temperature sensor and 4-20mA.

**Features**

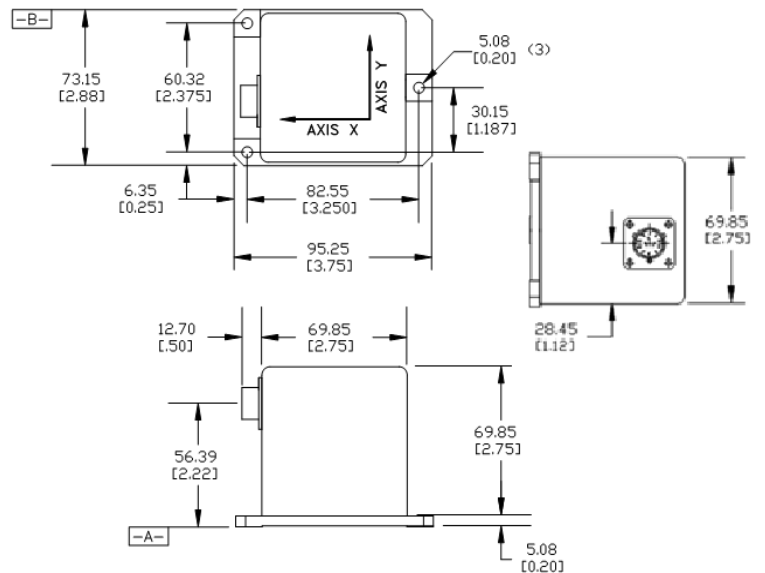
- Ranges Available from  $\pm 1^\circ$  to  $\pm 90^\circ$
- Operating Temp Range of  $-40^\circ\text{C}$  to  $+80^\circ\text{C}$
- Shock Survival of 1000g
- High Level of  $\pm 5\text{ Vdc}$  Output
- Fluid Damped for High Shock and Vibration Applications
- Dual Axis

**Applications**

- Antenna Leveling
- Weapons Platforms
- Barge & Offshore Platform Leveling & Control
- Data Buoy Pitch and Roll Measurement
- Missile Launchers
- Crane Overturning-Moment Alarms
- Electronic Level Applications
- Aircraft Manufacturing Equipment
- Wind Turbine Tilt Control Nacelle

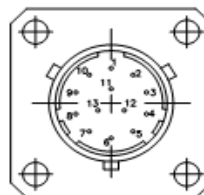


**Outline Diagram**



**Pin Out (Options: C-connector, P-Pin)**

CONNECTOR  
MS27476Y10D35P



Pin 1	+15 VDC
Pin 2	-15 VDC
Pin 3	Power/Output Common
Pin 4	Output Signal, X Axis
Pin 5	Output Signal, Y Axis
Pin 6-13	N/C

### 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

### 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°.

## How to Order

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