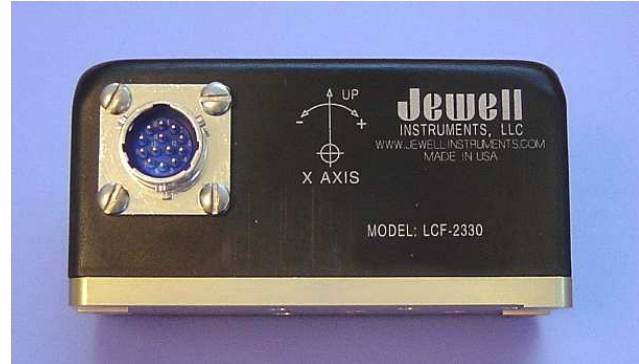


BEST IN
CLASS



The Jewell LCF-2330 Series Inclinometer is a dual axis version of the rugged, high accuracy LCF Series. The design of the LCF-2330 was optimized to provide the high accuracy and superior repeatability of Jewell's rugged, fluid damped, flexure suspension, servo technology in a small and convenient package for applications requiring a compact dual axis solution.

LCF-2330 Inclinometer Specifications

Performance

Input Range, °	±1	±3	±14.5	±30	±90
Full Range Output (FRO) ¹ , Volts, ±1%:	±5.0	±5.0	±5.0	±5.0	±5.0
Nonlinearity, % FRO ² , maximum:	0.05	0.05	0.02	0.02	0.02
Scale Factor, volts/g, nominal:	286.5	95.5	20.0	10.0	5.0
Scale Factor Temp Sensitivity, PPM/°C maximum:	300	300	100	60	60
Bandwidth (-3 dB), Hz, nominal:	2.0	3.0	30.0	30.0	30.0
Transverse Axis Misalignment, °, maximum:	±0.25	±0.50	±0.50	±1.00	±1.00
Output at 0° Tilt, Volts, maximum:	0.10	0.04	0.02	0.02	0.02
0° Output Temp Sensitivity, Volts/°C, maximum:	0.015	0.005	0.001	0.0005	0.0003
Resolution and Threshold:	1μradian				

Electrical

Input Voltage, VDC:	±12 to ±18
Input Current, mA, nominal:	30
Output Impedance, Ohms, nominal:	100
Noise, Vrms, maximum:	0.002

Environmental

Operating Temp Range:	-40 to +80°C
Survival Temp Range:	-60 to +90°C
Vibration:	20grms
Shock:	1000g, 1msec, ½ sine
Seal:	MIL-STD-202, Method 112
Weight:	8oz

¹ Full Range is defined as "from negative to positive full input angle."

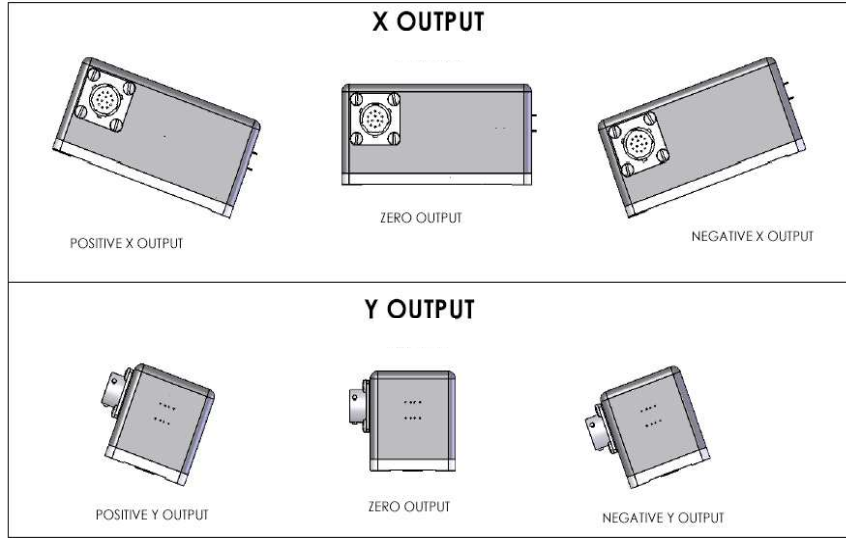
² Nonlinearity is specified as deviation of output referenced to theoretical sine function value, independent of misalignment.

Applications

- Radar & Antenna Leveling
- Weapons Platform Leveling
- Barge & Offshore Platform Control
- Deviation Surveys

LCF-2330 Series Inclinometer

Output Polarity



PIN-OUT	
1	+12 to +18 VDC
2	-12 to -18 VDC
3	COMMON
4	OUTPUT SIGNAL, X AXIS
5	OUTPUT SIGNAL RTN, X AXIS
6	OUTPUT SIGNAL, Y AXIS
7	OUTPUT SIGNAL RTN, Y AXIS
8-13	N/C

Outline Diagram

