

g LCF-2530

Series Dual Axis Accelerometer

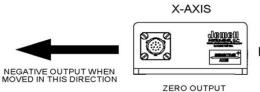
The Jewell LCF-2530 Series is a dual axis version of the rugged, high accuracy LCF Series. The design of the LCF-2530 was optimized to Axis Orientation provide the high suspension, servo technology in a small and convenient package for applications requiring a a compact dual axis solution.



FEATURES

- ± 0.5 g to ± 5.0 g Full Range
- Filtering 5-100 Hz Bandwidth Available
- Exeptional Bias & Scale Factor Repeatability
- High Level ± 5 Vdc Output
- 1.000g Shock Capability
- Built In Temperature Sensor Available
- Fluid Damped
- High Accuracy Dual Axis in Small Package
- Superior Bias Stability
- Low EMI
- Offshore plat forms

AXIS ORIENTATION







POSITIVE OUTPUT WHEN MOVED IN THIS DIRECTION





ZERO OUTPUT



APPLICATIONS

- Railcar Accel/Decel Control
- Train Performance Testing
- Active Damping
- Rail Car Harshness (NVH)
- Manual Rail Measurement

PIN OUT (OPTIONS: C-CONNECTOR, P-PIN)

	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



PERFORMANCE SPECIFICATIONS



STATIC/DYNAMIC

Input Range, g:	±0.25	±0.5	±1.0	±2.0	±5.0
Full Range Output (FRO -Note 1) VDC ±1%:	±5.00	±5.00	±5.00	±5.00	±5.00
Nonlinearity (Note 2) % FRO maximum:	0.02	0.02	0.02	0.05	0.10
Scale Factor, Volts/g, nominal:	20.0	10.0	5.0	2.5	1.0
Scale Factor Temp. Sensitivity (SFTS), PPM /°C maximum:	100	60	60	100	100
Bandwidth (-3 dB), Hz nominal:	30.0	30.0	30.0	30.0	30.0
Output Axis Misalignment, ° maximum:	0.50	1.00	1.00	1.00	1.00
Pendulous Axis Misalignment, ° maximum:	0.50	1.00	1.00	1.00	1.00
Bias, g range:	±0.001	±0.002	±0.004	±0.005	±0.005
Bias Temperature Sensitivity, Volts /°C maximum:	0.001	0.0005	0.0003	0.0003	0.0003
Resolution and Threshold, µg maximum:	1	1	1	1	1

ELECTRICAL

Number of Axes:	2
Input Voltage Range, (VDC):	±12 to ±18
Input Current, mA, max:	50
Output Impedance, Ohms, nom:	100
Noise, Vrms, maximum:	0.002

ENVIRONMENTAL

Operating Temp Range:	-40°C to +80°C
Storage Temp Range:	-60°C to +90°C
Vibration grms:	20
Shock:	1000 g, 1 msec, ½ sine

ENCLOSURE

Weight oz:	8
Seal:	MIL-STD-202, Method 112, IP65

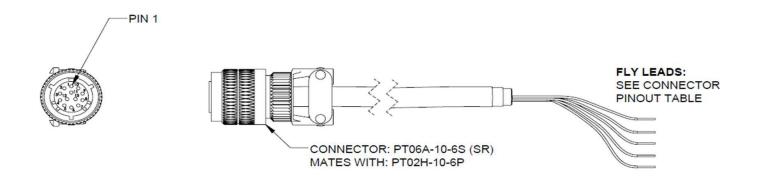
Note 1: Full Range is defined "from negative full input acceleration to positive full input acceleration."

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

*Specifications subject to change without notice on account of continued product development

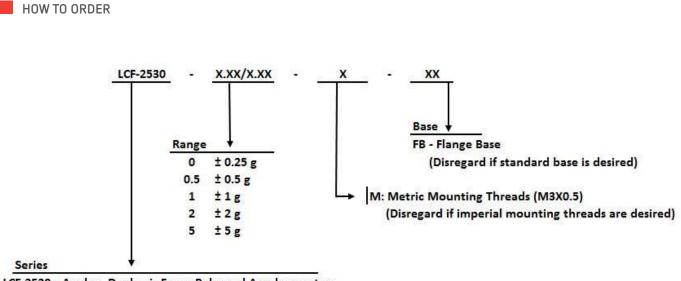


CABLE ACCESSORY



CABLE CONFIGURATIONS & PART NUMBERS

Part Number	Description		
847774-002	Circular Connector(13 Pin)		
879605-003	DSI-CBL-006-2 (6 Ft)		
879605-004	DSI-CBL-010-2 (10 Ft)		
879605-009	DSI-CBL-02M-2 (2M)		
879605-010	DSI-CBL-03M-2 (3M)		



LCF-2530 - Analog, Dual-axis Force-Balanced Accelerometer

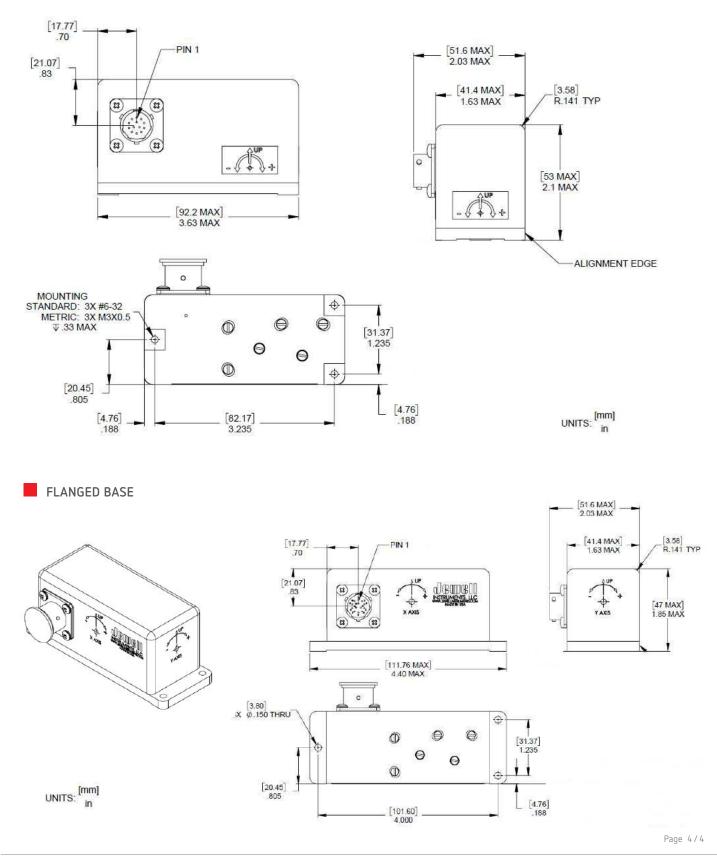
Example: LCF-2530-5/5 = LCF-2530, ±5 g range, imperial mounting threads, standard base

SENSORS & CONTROLS





DIMENSIONS - STANDARD BASE



The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen – Your expert partner in Sensors & Controls | althensensors.com

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