

Lebow® Products Inc.

Model 3140-FR Series

FATIGUE RATED LOAD CELL



PRODUCT FEATURES

- Fatigue Rated
- Low Height
- Guaranteed Maximum Off-Center Load and Momentum Error
- Static Error Band 0.04-0.05%
- Low Creep
- Low Sensitivity to Magnetic Fields
- Barometric Pressure Compensated
- Temperature Compensated
- 6 Pin Bayonet Connector

PERFORMANCE SPECIFICATIONS

PARAMETERS	MODEL			
	3143-FR	3143-FR	3144-FR	3145-FR
	150, 250, 500, 1K	2.5K, 5K	12.5K, 25K	50K
Accuracy				
Zero Balance, % R.O.	±1.0	±1.0	±1.0	±1.0
Non Linearity, % R.O.	±0.04	±0.05	±0.05	±0.05
Hysteresis, % R.O.	±0.04	±0.05	±0.05	±0.05
Non-Repeatability, % R.O.	±0.01	±0.01	±0.01	±0.01
Static Error Band, % R.O.	±0.04	±0.05	±0.05	±0.05
Creep, % Reading in 20 Minutes	±0.03	±0.03	±0.03	±0.03
Off-Center Load Sensitivity, % /inch	±0.25	±0.25	±0.25	±0.25
Side Load Sensitivity, %	±0.25	±0.25	±0.25	±0.25
Temperature				
Range, Compensated, °F	+15 to +115	+15 to +115	+15 to +115	+15 to +115
Range, Operating, °F	-65 to +200	-65 to +200	-65 to +200	-65 to +200
Effect on Sensitivity, % Rdg/100 °F	0.08	0.08	0.08	0.08
Effect on Zero, % R.O./100 °F	0.15	0.15	0.15	0.15
Electrical				
Excitation Voltage, Recommended, Vdc	10	10	10	10
Input Resistance, Ohms	350 +40/-3.5	350 +40/-3.5	350 +40/-3.5	350 +40/-3.5
Output Resistance, Ohms	350 ±3.5	350 ±3.5	350 ±3.5	350 ±3.5
Sensitivity (Rated Output), mV/V, Nominal	1	2	2	2
Insulation Resistance, Bridge/Case, Meg Ohm	5000 @ 50VDC	5000 @ 50VDC	5000 @ 50VDC	5000 @ 50VDC
Mechanical				
Safe Overload Range, % R.O.	300	300	300	300
Weight (lbs.)	1.0	2.9	9.1	23.5
Weight w/Base (lbs.)	2.5	6.5	21.5	52.5
Flexure Material	Aluminum	Steel	Steel	Steel

Lebow® Products Inc.

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(800) 803-1164

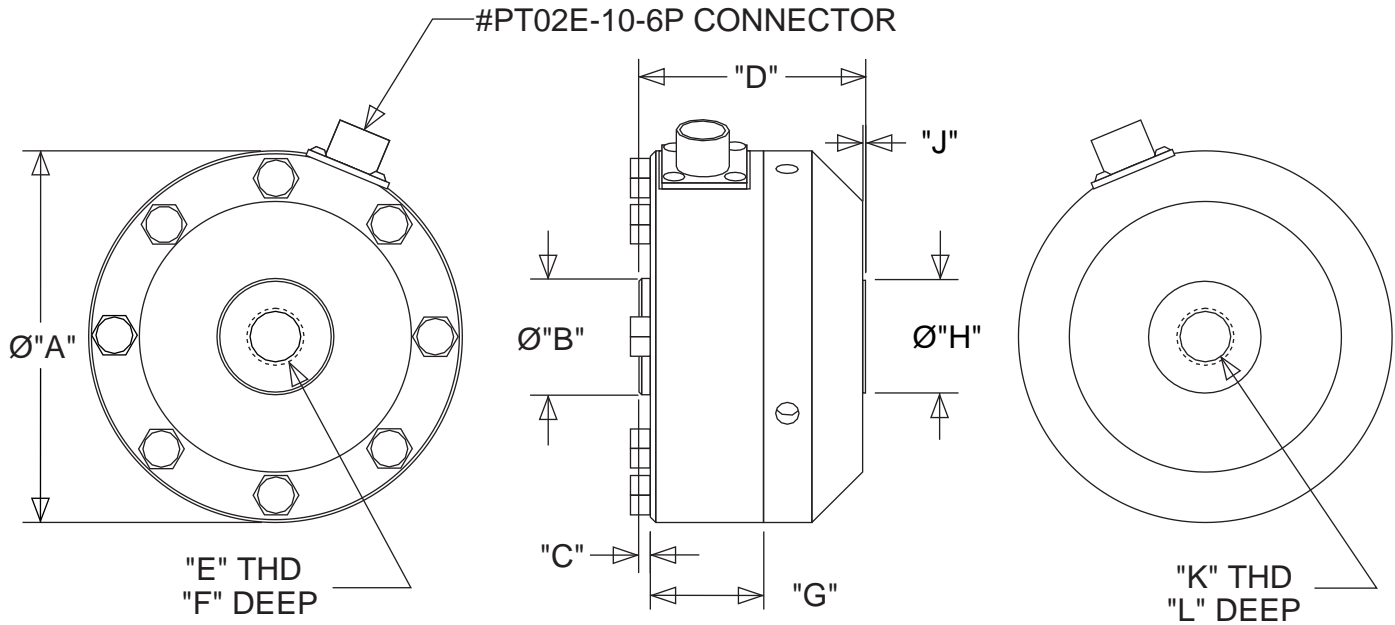
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MODEL NUMBER	CAPACITY LBS	ØA	ØB	C	D	E Thd	F	G	ØH	J	K Thd	L
3143-FR-150	150	4.12	1.29	0.125	2.50	1/2-20 UNF 3B	1.12	1.25	1.25	0.03	1/2-20 UNF 3B	0.88
3143-FR-250	250	4.12	1.29	0.125	2.50	1/2-20 UNF 3B	1.12	1.25	1.25	0.03	1/2-20 UNF 3B	0.88
3143-FR-500	500	4.12	1.29	0.125	2.50	1/2-20 UNF 3B	1.12	1.25	1.25	0.03	1/2-20 UNF 3B	0.88
3143-FR-1K	1,000	4.12	1.29	0.125	2.50	1/2-20 UNF 3B	1.12	1.25	1.25	0.03	1/2-20 UNF 3B	0.88
3143-FR-2.5K	2,500	4.12	1.29	0.125	2.50	1/2-20 UNF 3B	1.12	1.25	1.25	0.03	1/2-20 UNF 3B	0.88
3143-FR-5K	5,000	4.12	1.29	0.125	2.50	1/2-20 UNF 3B	1.12	1.25	1.25	0.03	1/2-20 UNF 3B	0.88
3144-FR-12.5K	12,500	6.06	2.34	0.125	3.50	1 1/4-12 UNF 3B	1.40	1.63	2.25	0.03	1 1/4-12 UNF 3B	1.50
3144-FR-25K	25,000	6.06	2.58	0.125	3.50	1 1/4-12 UNF 3B	1.40	1.63	2.25	0.03	1 1/4-12 UNF 3B	1.50
3145-FR-50K	50,000	8.00	3.76	0.25	4.50	1 3/4-12 UNF 3B	1.75	2.25	3.00	0.03	1 3/4-12 UNF 3B	1.75

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