

## LKCP 410 Operator's Guide

### GENERAL:

The LKCP 410 series is a compact load cell utilizing foil strain gage technology. Where space is a premium, the LKCP 410 provides for force measurements in a small package. Stainless steel construction provides for excellent long-term reliability.

### MOUNTING:

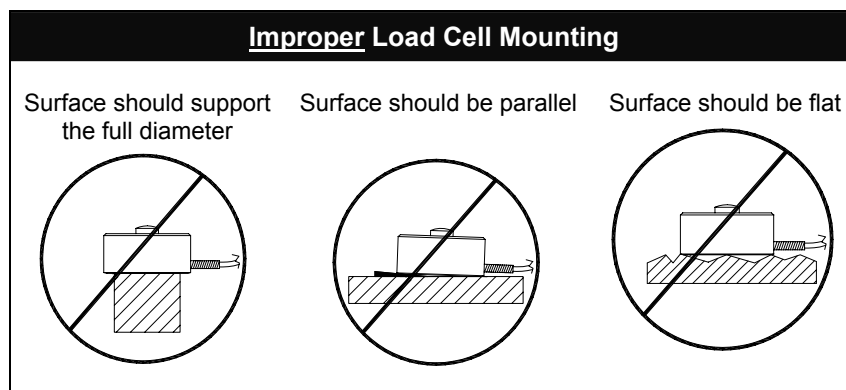
In order to achieve the rated accuracy specifications, the LKCP 410 must be mounted properly. The unit is designed to be mounted to a flat, parallel, hardened surface using the three threaded mounting holes on the bottom of the cell. The base must extend to the full diameter of the body! Supporting only a portion of the bottom will result in damaging the cell.

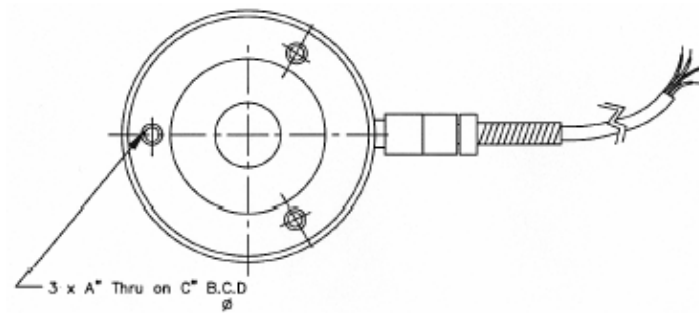
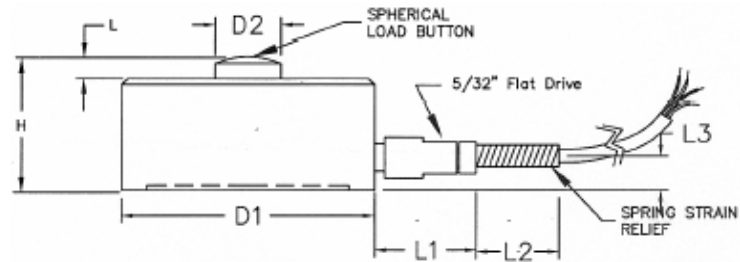
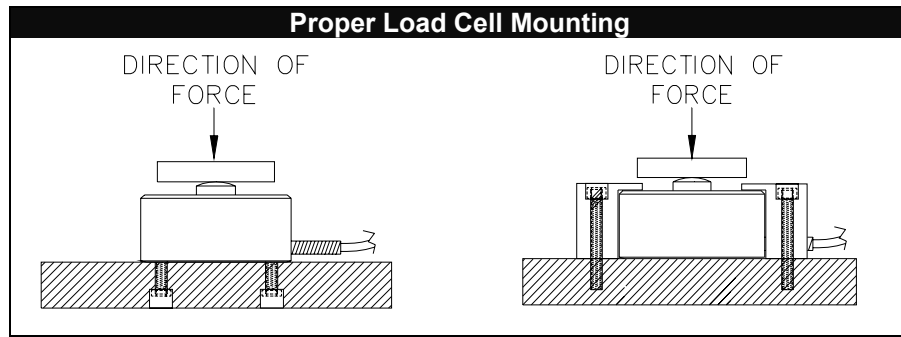
Securely fasten the load cell to a mounting base and apply force directly to the spherical radius of the load cell. If the mounting screws are not used, the body of the cell may "spread" under load and strain is not transmitted to the gauges.

Forces should be applied to the load button of the cell with a flat surface. If forces are applied with a pinned point, radial or curved surface, repeatability errors and/or deformation of the load button may result.

SPECIFICATIONS	
Signal Output:	2 mV/V nominal
Linearity	0.50%
Hysteresis	0.50%FS
Zero Balance	± 2%
Compensated Temp. Range	60°F to 160°
Operating Temperature Range	-60°F to 250°F
Bridge Resistance	350 ohm foil strain gage
Excitation Voltage	10 V
Safe Overload	150% of full scale
Electrical Connection	10 feet of shielded cable with pigtail end

CABLE COLOR CODE	
+Excitation	Red
-Excitation	Black
+Signal	Green
-Signal	White





RANGES	D1	D2	H	L	A	B	C
5 to 100 lb	0.98	0.21	0.32	0.05	#4-40 UNC	Thru-Hole	0.75
250 lb	1.23	0.32	0.39	0.05	#6-32 UNC	Thru-Hole	1.00