

LARGE-ID THROUGH-HOLE LOAD CELLS

2.00 TO 3.13" ID



Compression
0-1000 lb to 0-100K lb
0-455 kgf to 0-45,372 kgf

1 Newton = 0.2248 lb
 1 daNewton = 10 Newtons
 1 lb = 454 g
 1 t = 1000 kgf = 2204 lb

LC8400-213-10K shown smaller than actual size.

LC8313/LC8400 Large Series

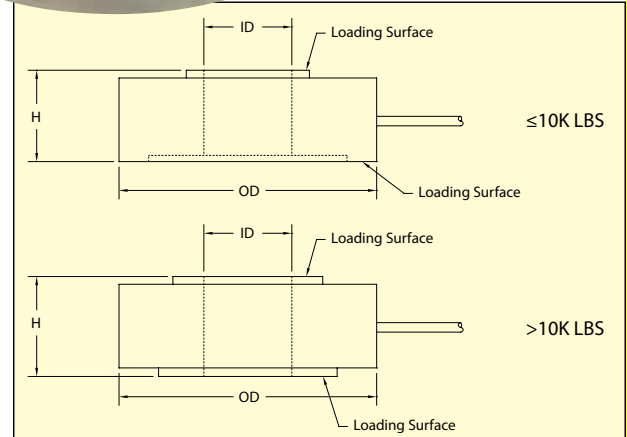


Standard

Dimensions: mm (inch)

MODEL	OD	H
LC8313	80 (3.13)	13 (0.50)
LC8400 (1K to 50K)	102 (4.00)	25 (1.00)
LC8400 (≥100K)	102 (4.00)	51 (2.00)
LC8450	114 (4.50)	32 (1.25)

WIRE	CONNECTION
GN	+Output
WT	-Output
BK	-Input
RD	+Input



- ✓ For Large-ID Applications
- ✓ All Stainless Steel Construction
- ✓ Rugged Industrial Design

The LC8313, LC8400, and LC8450 Series donut load cells are space-saving solutions to applications requiring a large through-hole. With their rugged construction and design, these load cells are ideal for applications such as loading forces on large bolts or other suspended load applications. These series, with their all stainless steel construction and environmental protection, have proved reliable in tough industrial applications.

SPECIFICATIONS

Output: 2 mV/V nominal
Input: 10 Vdc (15V maximum)
Accuracy Class: ±0.5% linearity, hysteresis and repeatability combined
Zero Balance: ±2.0% FSO
Operating Temp Range: -54 to 121°C (-65 to 250°F)
Compensated Temp Range: 16 to 71°C (60 to 160°F)
Thermal Effects:
 Zero: ±0.009% FSO/°C
 Span: ±0.018% rdg/°C
Safe Overload: 150% of capacity
Ultimate Overload: 300% of capacity
Input Resistance: 360 Ω minimum
Output Resistance: 350 ±5 Ω
Construction: 17-4 PH stainless steel
Electrical: 1.5 m (5') 4-conductor shielded cable

INSIDE DIAMETERS (ID)	+ = MOST POPULAR X = AVAILABLE			
ID CODE	200	213	300	313
MODEL	2.00"	2.13"	3.00"	3.13"
LC8313	+	X		
LC8400	+	X		
LC8450			X	+

Also available in metric configurations, consult engineering for details.

To Order			
CAPACITY	MODEL NO.	COMPATIBLE METERS**	
Model LC8313 with a 3.13" OD and Selectable ID			
1 K lb	455 kg	LC8313-[*]-1K	DP41-S, DP25B-S, DPiS
3 K lb	1361 kg	LC8313-[*]-3K	DP41-S, DP25B-S, DPiS
5 K lb	2269 kg	LC8313-[*]-5K	DP41-S, DP25B-S, DPiS
7.5 K lb	3403 kg	LC8313-[*]-7.5K	DP41-S, DP25B-S, DPiS
10 K lb	4537 kg	LC8313-[*]-10K	DP41-S, DP25B-S, DPiS
Model LC8400 with a 4.00" OD and Selectable ID			
1 K lb	455 kg	LC8400-[*]-1K	DP41-S, DP25B-S, DPiS
3 K lb	1361 kg	LC8400-[*]-3K	DP41-S, DP25B-S, DPiS
5 K lb	2269 kg	LC8400-[*]-5K	DP41-S, DP25B-S, DPiS
10 K lb	4537 kg	LC8400-[*]-10K	DP41-S, DP25B-S, DPiS
25 K lb	11,343 kg	LC8400-[*]-25K	DP41-S, DP25B-S, DPiS
50 K lb	22,686 kg	LC8400-[*]-50K	DP41-S, DP25B-S, DPiS
100 K lb	45,372 kg	LC8400-[*]-100K	DP41-S, DP25B-S, DPiS
200 K lb	90,744 kg	LC8400-[*]-200K	DP41-S, DP25B-S, DPiS
Model LC8450 with a 4.50" OD and Selectable ID			
1 K lb	455 kg	LC8450-[*]-1K	DP41-S, DP25B-S, DPiS
3 K lb	1361 kg	LC8450-[*]-3K	DP41-S, DP25B-S, DPiS
5 K lb	2269 kg	LC8450-[*]-5K	DP41-S, DP25B-S, DPiS
10 K lb	4537 kg	LC8450-[*]-10K	DP41-S, DP25B-S, DPiS

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data.

** Visit us online for compatible meters.

[*] Select ID Code from table above to complete model number.

Ordering Examples: LC8313-200-3K, 3000 lb capacity load cell, 3.13" OD and 2.00" ID.

LC8400-200-10K, 10,000 lb capacity load cell, 4.00" OD and 2.00" ID.

LC8400-213-25K, 25,000 lb capacity load cell, 4.00" OD and 2.13" ID.

LC8450-313-5K, 5000 lb capacity load cell, 4.50" OD and 3.13" ID.