

LARGE-ID THROUGH-HOLE LOAD CELLS 2.00 TO 3.13" ID

LC8313/LC8400 Large Series

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

Starts at
\$480



Standard

- ✓ 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 max)

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

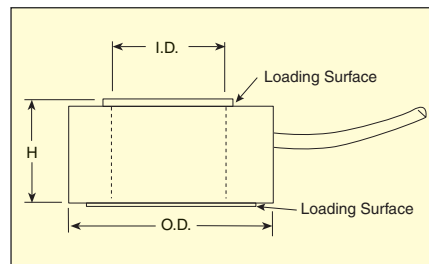


LC8400-213-10K, \$480, shown smaller than actual size.

Dimensions: mm (in)

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



MOST POPULAR SIZES HIGHLIGHTED!

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.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

CAPACITY	MODEL NO.	PRICE	COMPATIBLE METERS**
Model LC8313 with a 3.13" OD and Selectable ID			
1 K lb	455 kg	LC8313-[*]-1K	\$480 DP41-S, DP25B-S, DPiS
3 K lb	1361 kg	LC8313-[*]-3K	480 DP41-S, DP25B-S, DPiS
5 K lb	2269 kg	LC8313-[*]-5K	480 DP41-S, DP25B-S, DPiS
7.5 K lb	3403 kg	LC8313-[*]-7.5K	480 DP41-S, DP25B-S, DPiS
10 K lb	4537 kg	LC8313-[*]-10K	480 DP41-S, DP25B-S, DPiS
Model LC8400 with a 4.00" OD and Selectable ID			
1 K lb	455 kg	LC8400-[*]-1K	\$480 DP41-S, DP25B-S, DPiS
3 K lb	1361 kg	LC8400-[*]-3K	480 DP41-S, DP25B-S, DPiS
5 K lb	2269 kg	LC8400-[*]-5K	480 DP41-S, DP25B-S, DPiS
10 K lb	4537 kg	LC8400-[*]-10K	480 DP41-S, DP25B-S, DPiS
25 K lb	11,343 kg	LC8400-[*]-25K	650 DP41-S, DP25B-S, DPiS
50 K lb	22,686 kg	LC8400-[*]-50K	650 DP41-S, DP25B-S, DPiS
100 K lb	45,372 kg	LC8400-[*]-100K	750 DP41-S, DP25B-S, DPiS
200 K lb	90,744 kg	LC8400-[*]-200K	750 DP41-S, DP25B-S, DPiS
Model LC8450 with a 4.50" OD and Selectable ID			
1 K lb	455 kg	LC8450-[*]-1K	\$480 DP41-S, DP25B-S, DPiS
3 K lb	1361 kg	LC8450-[*]-3K	480 DP41-S, DP25B-S, DPiS
5 K lb	2269 kg	LC8450-[*]-5K	480 DP41-S, DP25B-S, DPiS
10 K lb	4537 kg	LC8450-[*]-10K	480 DP41-S, DP25B-S, DPiS

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

** See section D 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, \$480.

LC8400-200-10K, 10,000 lb capacity load cell, 4.00" OD and 2.00" ID, \$480.

LC8400-213-25K, 25,000 lb capacity load cell, 4.00" OD and 2.13" ID, \$650.

LC8450-313-5K, 5000 lb capacity load cell, 4.50" OD and 3.13" ID, \$480.