

COMPACT THROUGH-HOLE LOAD CELLS 3.00" OD

LC8300 Series

Compression

0-1000 lb to 0-100,000 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

LC8300-750-2K
shown actual size.

Full Scale Deflection:
0.003" nominal

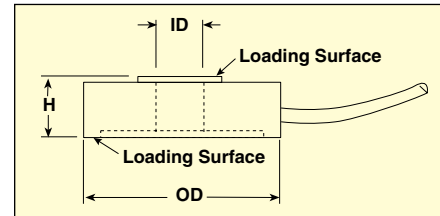
Construction: 17-4 PH
stainless steel

Electrical: 1.5 m (5') 4-conductor
shielded cable

Dimensions: mm (inch)

| MODEL | OD | H |
|--------|-------------|-------------|
| LC8300 | 76.3 (3.00) | 25.4 (1.00) |

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



LC8300 Series



Standard

- ✓ Low Profile
- ✓ All Stainless Steel Construction
- ✓ Rugged Industrial Design

The LC8300 Series donut load cells are an economical solution to applications requiring a through-hole design. With their extremely low profile and compact design, these load cells are ideal for applications such as clamping forces, bolt loading forces, and other compressive loads. This series, with its all stainless steel construction and environmental protection, has proved reliable in tough industrial applications.

SPECIFICATIONS

Output: 2 mV/V nominal
Input: 10 Vdc (15V maximum)
Linearity: ±0.5% FSO
Repeatability: ±0.1% FSO
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

AVAILABLE INSIDE DIAMETERS (ID) + = MOST POPULAR X = AVAILABLE

| ID CODE | 250 | 375 | 500 | 625 | 750 | 875 | 938 | 1.00 | 1.13 | 1.25 | 1.138 | 1.50 |
|----------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| CAPACITY | 0.250" | 0.375" | 0.500" | 0.625" | 0.750" | 0.875" | 0.938" | 1.00" | 1.13" | 1.25" | 1.38" | 1.50" |
| 1000 | X | X | + | X | X | X | X | X | + | X | X | X |
| 2000 | X | X | + | X | X | X | X | X | + | X | X | X |
| 3000 | X | X | + | X | X | X | X | X | + | X | X | X |
| 5000 | | X | + | X | X | X | X | X | + | X | X | X |
| 7500 | | X | + | X | X | X | X | X | + | X | X | X |
| 10,000 | | X | + | X | X | X | X | X | + | X | X | X |
| 15,000 | | | + | X | X | X | X | X | | | | |
| 20,000 | | | + | X | X | X | X | X | | | | |
| 30,000 | | | + | X | X | X | X | X | | | | |
| 40,000 | | | + | X | X | X | X | X | | | | |
| 50,000 | | | + | X | X | X | X | X | | | | |
| 75,000 | | | + | X | X | X | X | X | | | | |
| 100,000 | | | + | X | X | X | X | X | | | | |

Also available in metric configurations, consult engineering for details.

To Order

| CAPACITY | MODEL NO. | COMPATIBLE METERS** |
|---|------------|---|
| Model LC8300 with a 3.00" OD and Selectable ID | | |
| 1000 lb | 455 kgf | LC8300-[*]-1K DP41-S, DP25B-S, DPiS |
| 2000 lb | 909 kgf | LC8300-[*]-2K DP41-S, DP25B-S, DPiS |
| 3000 lb | 1361 kgf | LC8300-[*]-3K DP41-S, DP25B-S, DPiS |
| 4000 lb | 1815 kgf | LC8300-[*]-4K DP41-S, DP25B-S, DPiS |
| 5000 lb | 2269 kgf | LC8300-[*]-5K DP41-S, DP25B-S, DPiS |
| 7500 lb | 3403 kgf | LC8300-[*]-7.5K DP41-S, DP25B-S, DPiS |
| 10,000 lb | 4537 kgf | LC8300-[*]-10K DP41-S, DP25B-S, DPiS |
| 20,000 lb | 9074 kgf | LC8300-[*]-20K DP41-S, DP25B-S, DPiS* |
| 30,000 lb | 13,612 kgf | LC8300-[*]-30K DP41-S, DP25B-S, DPiS* |
| 40,000 lb | 18,149 kgf | LC8300-[*]-40K DP41-S, DP25B-S, DPiS* |
| 50,000 lb | 22,686 kgf | LC8300-[*]-50K DP41-S, DP25B-S, DPiS* |
| 75,000 lb | 34,029 kgf | LC8300-[*]-75K DP41-S, DP25B-S, DPiS* |
| 100,000 lb | 45,372 kgf | LC8300-[*]-100K DP41-S, DP25B-S, DPiS* |

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

* 4-digit meter. ** Visit us online for compatible meters.

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

Ordering Examples: LC8300-750-2K, 2000 lb capacity load cell, 0.750" ID.

LC8300-750-100K, 100,000 lb capacity load cell, and 0.750" ID.

LC8300-1.25-10K, 10,000 lb capacity load cell, and 1.25" ID.