

LOW-PROFILE, THROUGH-HOLE LOAD CELLS

1.50" OD

LC8150 Series Compression 0-500 lb to 0-5000 lb 0-50 kgf to 0-2250 kgf

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

All Models
\$480



Standard



LC8150-200-1000, \$480,
shown actual size.

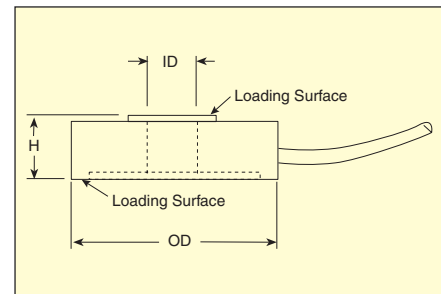
- ✓ Low Profile
- ✓ All Stainless Steel Construction
- ✓ Rugged Industrial Design

The LC8150 Series donut load cells are an economical solution to applications requiring a through-hole design. With their 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 the toughest industrial applications.

Dimensions: mm (in)

MODEL	OD	H
LC8150	38 (1.50)	13 (0.50)

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



INSIDE DIAMETERS (ID) + = MOST POPULAR X = AVAILABLE							
ID CODE	100	125	200	250	312	375	500
MODEL	0.100"	0.125"	0.200"	0.250"	0.312"	0.375"	0.500"
LC8150	X	X	X	+	X	+	X

Also available in metric configurations, consult engineering for details.

SPECIFICATIONS

Output: 2 mV/V nominal

Input: 10 Vdc (15V max)

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

Deflection: 0.076 mm (0.003") FS nom.

Output Resistance: 350 ±5 Ω

Construction: 17-4 PH stainless steel

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

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	CAPACITY		COMPATIBLE METERS**
Model LC8150 with a 1.50" OD and Selectable ID				
LC8150-[*]-100	\$480	100 lb	45 kgf	DP41-S, DP25B-S, DPiS
LC8150-[*]-250	480	250 lb	114 kgf	DP41-S, DP25B-S, DPiS
LC8150-[*]-500	480	500 lb	227 kgf	DP41-S, DP25B-S, DPiS
LC8150-[*]-1K	480	1000 lb	455 kgf	DP41-S, DP25B-S, DPiS
LC8150-[*]-2K	480	2000 lb	909 kgf	DP41-S, DP25B-S, DPiS
LC8150-[*]-3K	480	3000 lb	1361 kgf	DP41-S, DP25B-S, DPiS
LC8150-[*]-5K	480	5000 lb	2269 kgf	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: LC8150-125-100, 100 lb capacity load cell, 0.125" ID, \$480.

LC8150-200-2K, 2000 lb capacity load cell, 0.200" ID, \$480.

LC8150-375-500, 500 lb capacity load cell, 0.375" ID, \$480.

Recommended Reference Book: Strength of Materials and Structures,

ME-1758, \$135

See Section Y For Additional Books

