

MINIATURE LOW-PROFILE, THROUGH-HOLE LOAD CELLS 1.00 TO 1.25" OD

Compression

0-5 lb to 0-500 lb

0-2.3 kg to 0-227 kg

1 Newton = 0.2248 lb

1 daNewton = 10 Newtons

1 lb = 454 g

1 t = 1000 kg = 2204 lb

LC8100/LC8125 Series



Standard

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

The LC8100 and LC8125 Series donut load cells are an economical solution to applications requiring a through-hole design. With their extremely low-profile and compact design, they 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.

SPECIFICATIONS

Output: 2 mV/V nominal

Input: 10 Vdc (15V maximum)

Accuracy: ±1.0% 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

Deflection: 0.075 mm (0.003") nominal

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

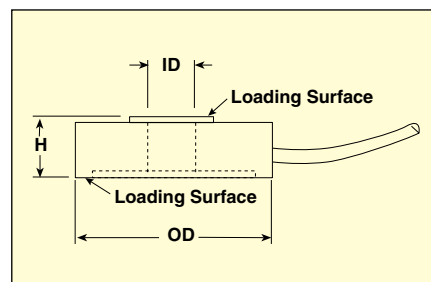


LC8125-200-25 shown actual size.

Dimensions: mm (inch)

MODEL	OD	H
LC8100	25 (1.00)	7.1 (0.28)
LC8125	32 (1.25)	7.1 (0.28)

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



INSIDE DIAMETERS (ID) + = MOST POPULAR X = AVAILABLE							
ID CODE	100	125	188	200	250	312	375
MODEL	0.100"	0.125"	0.188"	0.200"	0.250"	0.312"	0.375"
LC8100	X	X	X	+	X		
LC8125	X	X	X	+	X	+	X

Also available in metric configurations, consult engineering for details.

To Order

CAPACITY		MODEL NO.	COMPATIBLE METERS**
Model LC8100 with a 1.00" OD and Selectable ID			
5 lb	2.3 kg	LC8100-[*]-5	DP41-S, DP25B-S, DPiS
10 lb	4.5 kg	LC8100-[*]-10	DP41-S, DP25B-S, DPiS
25 lb	11 kg	LC8100-[*]-25	DP41-S, DP25B-S, DPiS
50 lb	23 kg	LC8100-[*]-50	DP41-S, DP25B-S, DPiS
100 lb	45 kg	LC8100-[*]-100	DP41-S, DP25B-S, DPiS
200 lb	91 kg	LC8100-[*]-200	DP41-S, DP25B-S, DPiS
Model LC8125 with a 1.25" OD and Selectable ID			
25 lb	11 kg	LC8125-[*]-25	DP41-S, DP25B-S, DPiS
50 lb	23 kg	LC8125-[*]-50	DP41-S, DP25B-S, DPiS
100 lb	45 kg	LC8125-[*]-100	DP41-S, DP25B-S, DPiS
250 lb	114 kg	LC8125-[*]-250	DP41-S, DP25B-S, DPiS
500 lb	227 kg	LC8125-[*]-500	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: LC8100-200-200, 200 lb capacity load cell, 1.00" OD and 0.200" ID.

LC8100-125-10, 10 lb capacity load cell, 1.00" OD and 0.125" ID.

LC8125-188-25, 25 lb capacity load cell, 1.25" OD and 0.188" ID.

LC8125-200-500, 500 lb capacity load cell with 1.25" OD and 0.200" ID.