

# MINIATURE LOW-PROFILE, THROUGH-HOLE LOAD CELLS

## 1.00 TO 1.25" OD

See Section Y for a Selection of Scientific, Technical, and Reference Books Available from [omega.com](http://omega.com)

### LC8100/LC8125 Series

**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



LC8125-200-25, \$470, shown actual size.

All Models  
**\$470**

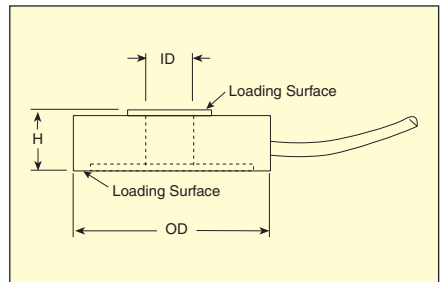


Standard

Dimensions: mm (in)

MODEL	OD	H
LC8100	25 (1.00)	7.1 (0.28)
LC8125	32 (1.25)	6.4 (0.25)

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



- ✓ 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 max)  
**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

	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.

**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)				
CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS**
<b>Model LC8100 with a 1.00" OD and Selectable ID</b>				
5 lb	2.3 kg	LC8100-[*]-5	\$470	DP41-S, DP25B-S, DPiS
10 lb	4.5 kg	LC8100-[*]-10	470	DP41-S, DP25B-S, DPiS
25 lb	11 kg	LC8100-[*]-25	470	DP41-S, DP25B-S, DPiS
50 lb	23 kg	LC8100-[*]-50	470	DP41-S, DP25B-S, DPiS
100 lb	45 kg	LC8100-[*]-100	470	DP41-S, DP25B-S, DPiS
200 lb	91 kg	LC8100-[*]-200	470	DP41-S, DP25B-S, DPiS
<b>Model LC8125 with a 1.25" OD and Selectable ID</b>				
25 lb	11 kg	LC8125-[*]-25	\$470	DP41-S, DP25B-S, DPiS
50 lb	23 kg	LC8125-[*]-50	470	DP41-S, DP25B-S, DPiS
100 lb	45 kg	LC8125-[*]-100	470	DP41-S, DP25B-S, DPiS
250 lb	114 kg	LC8125-[*]-250	470	DP41-S, DP25B-S, DPiS
500 lb	227 kg	LC8125-[*]-500	470	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:** LC8100-200-200, 200 lb capacity load cell, 1.00" OD and 0.200" ID, \$470.  
 LC8100-125-10, 10 lb capacity load cell, 1.00" OD and 0.125" ID, \$470.  
 LC8125-188-25, 25 lb capacity load cell, 1.25" OD and 0.188" ID, \$470.  
 LC8125-200-500, 500 lb capacity load cell with 1.25" OD and 0.200" ID, \$470.