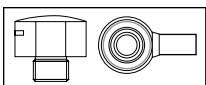


3 mV/V OUTPUT CANISTER LOAD CELLS STAINLESS STEEL

Tension/Compression
Calibrated in Tension†
LC1102 (Cable Style)
LC1112 (Connector Style)
0-50 lb to 0-100,000 lb
0-23 kg to 0-45,372 kg

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

† Ranges ≥ 100,000 lb calibrated
 in compression.



LC1102/LC1112 Series



LC1102-5K,
 shown smaller than
 actual size, see next
 page for dimensions.

- ✓ 5-Point Calibration Included
- ✓ Dual-Bridge Models Available
- ✓ High Accuracy

To Order Visit newportUS.com/lc1102 for Pricing and Details

CAPACITY		CABLE STYLE	CONNECTOR STYLE	COMPATIBLE METERS**	LOAD BUTTON	ROD END
lb	kg				MODEL	MODEL
50	23	LC1102-50	LC1112-50	DP41-B, DP41-S, DP25B-S	LBC-038	REC-038M
100	45	LC1102-100	LC1112-100	DP41-B, DP41-S, DP25B-S	LBC-038	REC-038M
300	136	LC1102-300	LC1112-300	DP41-B, DP41-S, DP25B-S	LBC-038	REC-038M
500	227	LC1102-500	LC1112-500	DP41-B, DP41-S, DP25B-S	LBC-012	REC-012M
1000	455	LC1102-1K	LC1112-1K	DP41-B, DP41-S, DP25B-S	LBC-012	REC-012M
2000	909	LC1102-2K	LC1112-2K	DP41-B, DP41-S, DP25B-S	LBC-012	REC-012M
5000	2269	LC1102-5K	LC1112-5K	DP41-B, DP41-S, DP25B-S	LBC-100	REC-100M
10,000	4537	LC1102-10K	LC1112-10K	DP41-B, DP41-S, DP25B-S	LBC-100	REC-100M
15,000	6806	LC1102-15K	LC1112-15K	DP41-B, DP41-S, DP25B-S*	LBC-100	REC-100M
20,000	9074	LC1102-20K	LC1112-20K	DP41-B, DP41-S, DP25B-S*	LBC-112	REC-112M
25,000	11,343	LC1102-25K	LC1112-25K	DP41-B, DP41-S, DP25B-S*	LBC-112	REC-112M
50,000	22,686	LC1102-50K	LC1112-50K††	DP41-B, DP41-S, DP25B-S*	LBC-200-12	
100,000	45,372	LC1102-100K	LC1112-100K††	DP41-B, DP41-S, DP25B-S*	LBC-300-8	

Comes complete with 5-point NIST-traceable calibration. ††Special quote. * 4-digit meter, counts by 10. ** See newportUS.com for compatible meters. To order a dual bridge version, add suffix “-DUAL” to model number. See newportUS.com for pricing.

To order unit with integral connector, specify **LC1112**, no extra charge. **PT06F10-6S**, mating connector (sold separately).

Ordering Examples: **LC1102-100K**, 100,000 lb capacity load cell.

LC1112-5K, 5000 lb capacity load cell with integral connector.

PT06F10-6S, mating connector (sold separately).

LC1102-100-DUAL, dual-output 100 lb capacity load cell.

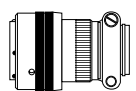
ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for LC1112 series load cells

HIGH-OUTPUT UNIVERSAL CANISTER LOAD CELLS



LC1102-100
shown smaller
than actual size.



Mating
Connector
PT06F10-6S

SPECIFICATIONS

Output: 3 mV/V $\pm 0.25\%$ FSO

Excitation: 10 Vdc (15V maximum)

Accuracy Class: $\pm 0.05\%$ FSO

Linearity: $\pm 0.05\%$ FSO

Hysteresis: $\pm 0.02\%$ FSO

Repeatability: $\pm 0.02\%$ FSO

Zero Balance: $\pm 1.0\%$ FSO

Operating Temp Range:

-24 to 79°C (-30 to 175°F)

Compensated Temp Range:

16 to 71°C (60 to 160°F)

Thermal Effects:

Zero: $\pm 0.003\%$ FSO/°C

Span: $\pm 0.014\%$ rdg/°C

Protection Class: IP67

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω

Full Scale Deflection:

0.08 to 0.13 mm (0.003 to 0.005")
typical.

Construction: Stainless steel

Electrical: 4.6 m (15') 4-conductor
shielded color-coded cable

POPULAR OPTIONS

(Additional Cost)

0 to 5 Vdc Output

"5V"

Overload Stops:

"-OL"

Dual Bridge:

≤ 2000 kg

"-DUAL"

> 2000 kg

"-DUAL"

Extended Temperature Range:

-45 to 93°C

"-TC1"

(-50 to 200°F)

-45 to 177°C

"-TC2"

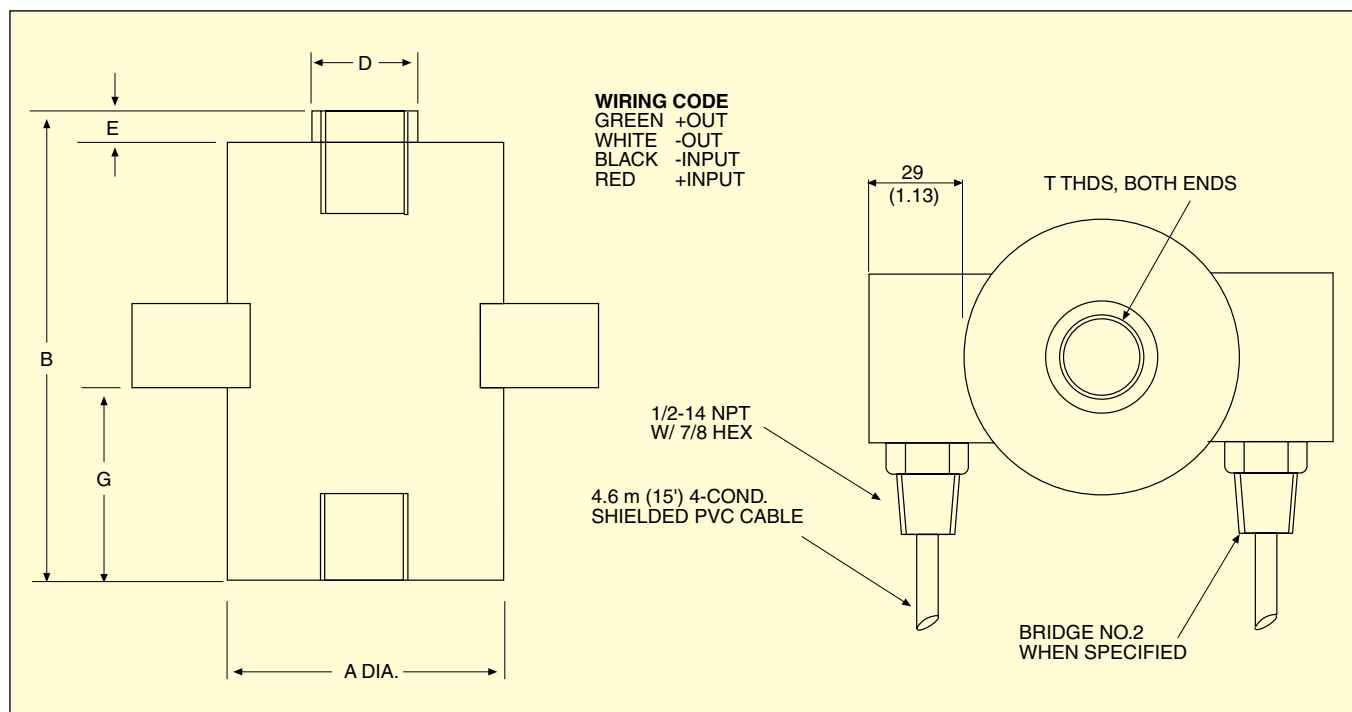
(-50 to 350°F)

Watertight Cable Exit:

"-WTC"

Additional Cable Length Available

Note: 100,000 lb capacity load cells are
supplied with 2 eyebolts for easy handling.



Dimensions: mm (inch)

CAPACITY		A	B	D	E	G	T
50 to 300 lb	23 to 136 kg	89 (3.5)	114 (4.50)	22 (0.87)	6.4 (0.25)	76 (3.00)	$\frac{3}{8}$ -24 UNF x $\frac{1}{8}$ DP
500 to 3000 lb	227 to 1361 kg	89 (3.5)	116 (4.56)	38 (1.5)	6.4 (0.25)	32 (1.25)	$\frac{1}{2}$ -20 UNF x $\frac{1}{2}$ DP
5000 to 15,000 lb	2269 to 6806 kg	89 (3.5)	151 (5.94)	33 (1.3)	9.7 (0.38)	71 (1.81)	1-14 UNS x 1 $\frac{1}{4}$ DP
20,000 to 30,000 lb	9074 to 13,612 kg	114 (4.5)	216 (8.5)	58 (2.3)	13 (0.50)	197 (2.81)	1 $\frac{1}{2}$ UNF x 2.0 DP
50,000 lb	22,686 kg	168 (6.63)	291 (11.44)	71 (2.8)	16 (0.62)	81 (3.19)	2-12 UN x 2 $\frac{1}{2}$ DP
100,000 lb	13,612 kg	219 (8.63)	451 (17.75)	102 (4.0)	29 (1.13)	125 (4.94)	3-8 UN x 4 $\frac{1}{2}$ DP