

CANISTER STYLE COMPRESSION LOAD CELLS HEAVY DUTY DESIGN

LC1001/LC1011 Series

Compression

0-500 lb to 0-2 M lb

0-2 kN to 0-9 kN

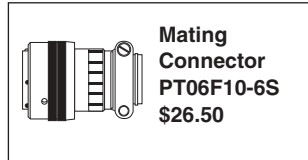
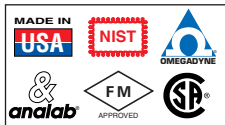
LC1001 = Cable Style

LC1011 = Connector Style

MODEL LC1011-10K
Connector Style
shown smaller
than actual size,
dimensions on next
page.



LC1011
\$895
Model Shown



- ✓ FM/CSA Approved Intrinsically Safe Models Available
- ✓ 0.25% Interchangeable for Multiple Load Cell Applications
- ✓ 5-Point NIST Traceable Calibration Standard
- ✓ Canister Design Ideal for Axial Compression Applications
- ✓ Heavy Duty Environmentally Sealed Case for Harsh Environments
- ✓ Dual Bridge Models Available

Models Available with Built-in Amplifiers

See page next page

Most Popular Models Highlighted

To Order (Specify Model Number)

Canister Style Compression Load Cells						Accessories		
RANGE (LB)	CABLE STYLE	CONNECTOR STYLE	PRICE	COMPAT. METERS*	BASE PLATE** MODEL NO. PRICE	TOP PLATE** MODEL NO. PRICE		
0-500	LC1001-500	LC1011-500	\$895	DP41-W, DP41-S	LC1000-BP4 \$48	LC1000-TP4 \$48		
0-1000	LC1001-1K	LC1011-1K	895	DP41-W, DP41-S	LC1000-BP4 48	LC1000-TP4 48		
0-2500	LC1001-2.5K	LC1011-2.5K	895	DP41-W, DP41-S	LC1000-BP4 48	LC1000-TP4 48		
0-5000	LC1001-5K	LC1011-5K	895	DP41-W, DP41-S	LC1000-BP4 48	LC1000-TP4 48		
0-10 K	LC1001-10K	LC1011-10K	895	DP41-W, DP41-S	LC1000-BP4 48	LC1000-TP4 48		
0-20 K	LC1001-20K	LC1011-20K	895	DP41-W, DP41-S	LC1000-BP4 48	LC1000-TP4 48		
0-50 K	LC1001-50K	LC1011-50K	895	DP41-W, DP41-S	LC1000-BP4 48	LC1000-TP4 48		
0-100 K	LC1001-100K	LC1011-100K	1250	DP41-W, DP41-S	LC1000-BP6 68	LC1000-TP6 68		
0-200 K	LC1001-200K	LC1011-200K	1650	DP41-W, DP41-S	LC1000-BP8 126	LC1000-TP8 126		
0-300 K	LC1001-300K	LC1011-300K	2200	DP41-W, DP41-S	LC1000-BP9 146	LC1000-TP9 136		
0-500 K	LC1001-500K	LC1011-500K	3900	DP41-W, DP41-S	n/a	n/a		
0-1 M	LC1001-1M	LC1011-1M	4700	DP41-W, DP41-S	n/a	n/a		
0-2 M	LC1001-2M	LC1011-2M	6200	DP41-W, DP41-S	n/a	n/a		

Metric Ranges Available - Consult Engineering

*See Section D For Compatible Meters

** Base Plates and Top Plates referenced are carbon steel. To Order stainless steel, and complete specifications see pages F-93 and F-94.

To order a CSA approved Intrinsically Safe version, add suffix "-CSA" to the part number. To order a Dual Bridge Load Cell, add suffix "-DUAL" to the part number (\$250 additional cost).

Ordering Examples: 1) LC1001-100K is a 100,000 lb capacity cable style load cell, \$1250; Accompanying Base Plate is LC1000-BP6, \$68. Accompanying Top Plate is LC1000-TP6, \$68. 2) LC1011-5K-CSA is a CSA approved Intrinsically Safe 5,000 lb capacity connector style load cell, \$895. Accompanying Base Plate is LC1000-BP4, \$48. Accompanying Top Plate is LC1000-TP4, \$48. Mating Connector (not included), PT06F10-6S, \$26.50

Custom Units Available with Built-in Amplifiers, see page F-130.

HEAVY DUTY CANISTER LOAD CELLS



SPECIFICATIONS

Excitation: 10 Vdc (15 Vdc max)

Output: 2 mV/V $\pm 0.25\%$

Agency Approvals: FM/CSA
Intrinsically Safe: IS/I.II.III/1/CDEFG
Must be specified at time of order

5-Point Calibration: (Compression)
0%, 50%, 100%, 50%, 0%
calibrated to full scale up to 300,000 lb
Load cells over 300,000 lb
calibrated at 300,000 lb. For a full
scale calibration over 300,000 lb,
specify option “-FS” after model
number (\$1,500 additional price)

Linearity: $\pm 0.05\%$ FSO

Hysteresis: $\pm 0.03\%$ FSO

Repeatability: $\pm 0.02\%$ FSO

Zero Balance: $\pm 1\%$ FS

Operating Temp Range:
-46 to 100°C (-50 to 212°F)

Compensated Temp Range:
16 to 71°C (60 to 160°F)

Thermal Effects: Zero $\pm 0.001\%$ FS/°F
Span $\pm 0.001\%$ Rdg/°F

Safe Overload:
150% of rated capacity

Ultimate Overload:
300% of rated capacity

Input Resistance: 350 $\Omega \pm 10 \Omega$

Output Resistance: 350 $\Omega \pm 10 \Omega$

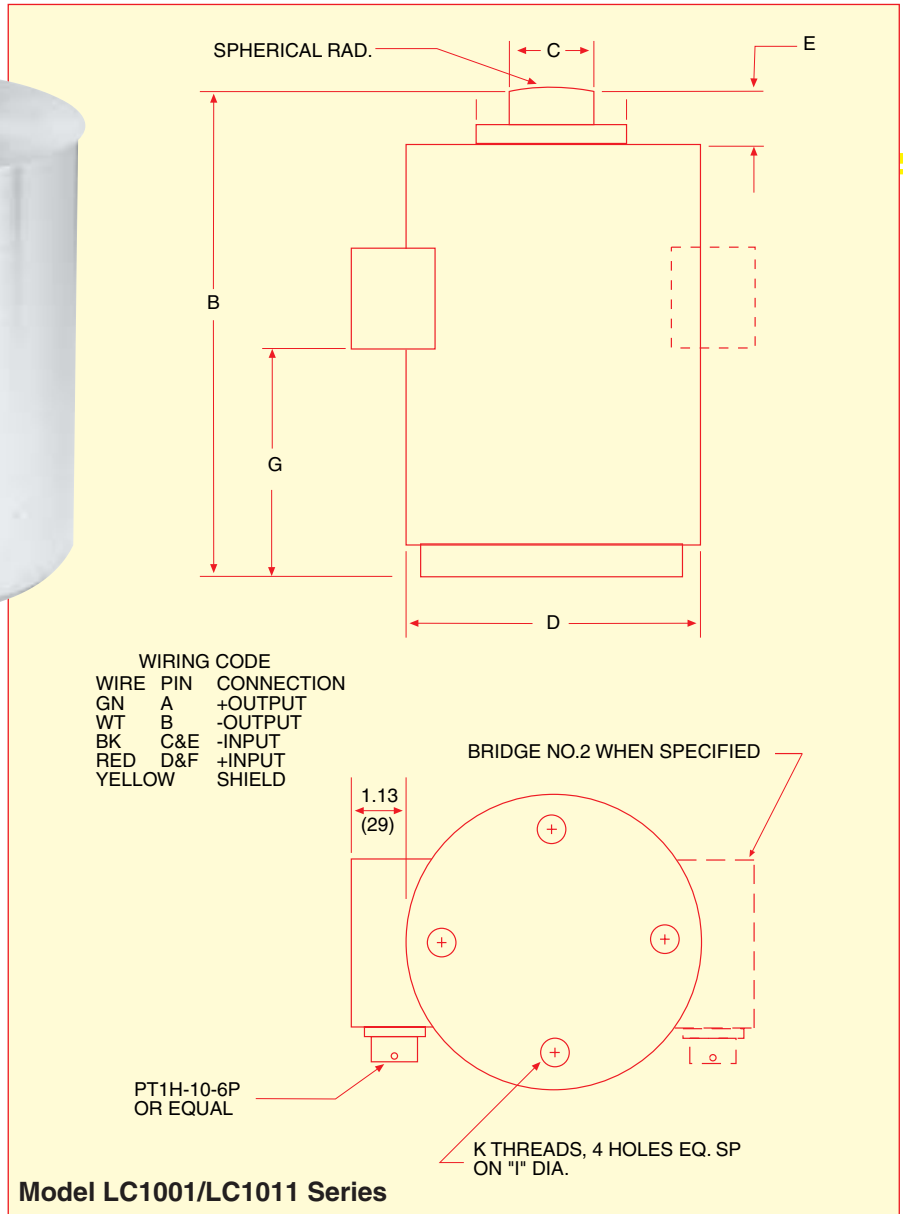
FS Deflection: 0.007 to 0.012 in
typical

Construction: Ranges <500,000 lb:
17-4 PH Stainless Steel
Ranges $\geq 500,000$ lb: High Alloy Steel

Electrical: LC1001: 15 ft (4.8 m)
4-Conductor Shielded PVC cable
LC1011: PTIH-10-6P (or Equal)

Mating Connector:
(not included) PT06F10-6S \$26.50

NOTE: Load Cells $\geq 100,000$ lb capacity
are supplied with two eye bolts for easy
handling



Dimensions Shown in Inches (mm)

Capacity (lb)	D	B	C	E	G	I $\pm .005$	K (THREAD)	Weight lb (kg)
500-3 K	3.50 (89)	4.6 (116)	1.25 (32)	.25 (6)	1.25 (32)	2.375 (60)	$\frac{3}{8}$ -24 UNF-2B x $\frac{3}{8}$ DP	6 (2.7)
5K-10 K	3.50 (89)	5.9 (151)	1.25 (32)	.75 (19)	1.81 (46)	2.375 (60)	$\frac{3}{8}$ -24 UNF-2B x $\frac{3}{8}$ DP	10 (4.5)
20K-50 K	4.50 (114)	7.5 (191)	1.25 (32)	.75 (19)	3.44 (77)	2.375 (60)	$\frac{3}{8}$ -24 UNF-2B x $\frac{3}{8}$ DP	20 (9)
100,000	5.56 (141)	9.1 (232)	1.75 (44)	1.06 (27)	4.75 (121)	4.000 (102)	$\frac{1}{2}$ -20 UNF-2B x $\frac{1}{2}$ DP	40 (88)
200,000	6.63 (168)	11.6 (295)	2.50 (64)	1.06 (27)	6.25 (159)	5.500 (140)	$\frac{5}{8}$ -18 UNF-2B x 1 DP	95 (43)
300,000	8.63 (219)	14 (356)	3.00 (76)	1.31 (33)	7.63 (194)	5.500 (140)	$\frac{3}{4}$ -16 UNF-2B x 1 $\frac{1}{4}$ DP	105 (48)
400,000	8.63 (219)	14 (356)	3.50 (89)	1.31 (33)	7.63 (194)	5.500 (140)	$\frac{3}{4}$ -16 UNF-2B x 1 $\frac{1}{4}$ DP	140 (64)
500,000	8.63 (219)	14 (356)	3.50 (89)	.88 (22)	7.63 (194)	3.500 (89)	$\frac{1}{2}$ -20 UNF-2B x $\frac{3}{8}$ DP	170 (77)
1,000,000	8.63 (219)	14 (356)	5.50 (140)	.88 (22)	5.50 (140)	4.500 (114)	$\frac{5}{8}$ -18 UNF-2B x 1.0 DP	250 (115)
2,000,000	10.75 (273)	16 (406)	7.00 (178)	1.00 (25)	6.00 (152)	5.500 (140)	1-14 UNS-2B x 1 $\frac{1}{4}$ DP	400 (182)