

CANISTER-STYLE COMPRESSION LOAD CELLS HEAVY-DUTY DESIGN

LC1001/LC1011 Series

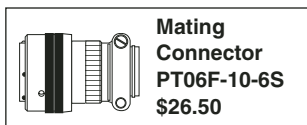
Compression
LC1001 (Cable Style)
LC1011 (Connector Style)
0-500 lb to 0-2 M lb
227 kg to 746,483 kg



LC1011-10K,
connector style,
\$895, shown smaller
than actual size,
see next page for
dimensions.



Starts at
\$895



Models Available with Built-In Amplifiers! See Page F-82.



MOST POPULAR MODELS HIGHLIGHTED!

- ✓ FM/CSA-Approved Intrinsically Safe Models Available
- ✓ 0.25% Interchangeability 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

SPECIFICATIONS

Excitation: 10 Vdc (15 Vdc max)

Output: 2 mV/V ±0.25%

Agency Approvals: CSA

Intrinsically Safe: IS/I.II.III/1/CDEFG

FM Hazardous Location: S/I/1/ABCD (must be specified at time of order)

5-Point Calibration (in 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 (consult Sales for price and delivery).

To Order (Specify Model Number)									
Canister-Style Compression Load Cells					Accessories				
CAP. lb/kg	CABLE STYLE	CONNECTOR STYLE	PRICE	COMPAT. METERS*	BASE PLATE**		TOP PLATE**		
					MODEL NO.	PRICE	MODEL NO.	PRICE	
500/227	LC1001-500	LC1011-500	\$895	DP41-W, DP41-S	LC1000-BP4	\$48	LC1000-TP4	\$48	
1000/455	LC1001-1K	LC1011-1K	895	DP41-W, DP41-S	LC1000-BP4	48	LC1000-TP4	48	
2500/1134	LC1001-2.5K	LC1011-2.5K	895	DP41-W, DP41-S	LC1000-BP4	48	LC1000-TP4	48	
5000/2269	LC1001-5K	LC1011-5K	895	DP41-W, DP41-S	LC1000-BP4	48	LC1000-TP4	48	
10 K/4537	LC1001-10K	LC1011-10K	895	DP41-W, DP41-S	LC1000-BP4	48	LC1000-TP4	48	
20 K/9074	LC1001-20K	LC1011-20K	895	DP41-W, DP41-S	LC1000-BP4	48	LC1000-TP4	48	
50 K/22,686	LC1001-50K	LC1011-50K	895	DP41-W, DP41-S	LC1000-BP4	48	LC1000-TP4	48	
100 K/45,372	LC1001-100K	LC1011-100K	1250	DP41-W, DP41-S	LC1000-BP6	68	LC1000-TP6	68	
200 K/90,744	LC1001-200K	LC1011-200K	1650	DP41-W, DP41-S	LC1000-BP8	126	LC1000-TP8	126	
300 K/136,116	LC1001-300K	LC1011-300K	2200	DP41-W, DP41-S	LC1000-BP9	146	LC1000-TP9	136	
500 K/226,860	LC1001-500K	LC1011-500K	3900	DP41-W, DP41-S	n/a		n/a		
1 M/453,721	LC1001-1M	LC1011-1M	4700	DP41-W, DP41-S	n/a		n/a		
2 M/746,483	LC1001-2M	LC1011-2M	6200	DP41-W, DP41-S	n/a		n/a		

Comes with 5-point NIST-traceable calibration.

* See section D for compatible meters. ** Base plates and top plates referenced are carbon steel. To order stainless steel, and for complete specifications, see pages F-88 and F-89.

To order CSA-approved Intrinsically Safe version, add suffix “-CSA” to model number (no extra charge). To order dual-bridge load cell, add suffix “-DUAL” to model number (see next page for pricing).

Ordering Examples: LC1001-100K, 100,000 lb capacity cable-style load cell, \$1250. LC1000-BP6, accompanying base plate, \$68. LC1000-TP6, accompanying top plate, \$68. LC1011-5K-CSA, CSA-approved Intrinsically Safe 5000 lb capacity connector-style load cell, \$895. LC1000-BP4, accompanying base plate, \$48. LC1000-TP4, accompanying top plate, \$48. PT06F10-6S, mating connector (not included), \$26.50.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-1758	\$105	Reference Book: Strength of Materials and Structures



HEAVY-DUTY CANISTER LOAD CELLS

LC1011-10K, connector style, \$895, shown smaller than actual size.



Protection Class: IP67
Linearity: ±0.05% FSO
Hysteresis: ±0.03% FSO
Repeatability: ±0.02% FSO
Zero Balance: ±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: ±0.0018% FS/°C
Span: ±0.0018% rdg/°C
Safe Overload: 150% of rated capacity
Ultimate Overload: 300% of rated capacity
Input Resistance: 350 ±10 Ω
Output Resistance: 350 ±10 Ω
FS Deflection: 0.18 to 0.50 mm (0.007 to 0.020") typical

Construction:

Ranges <500,000 lb: 17-4 PH stainless steel
Ranges ≥ 500,000 lb: High-alloy steel

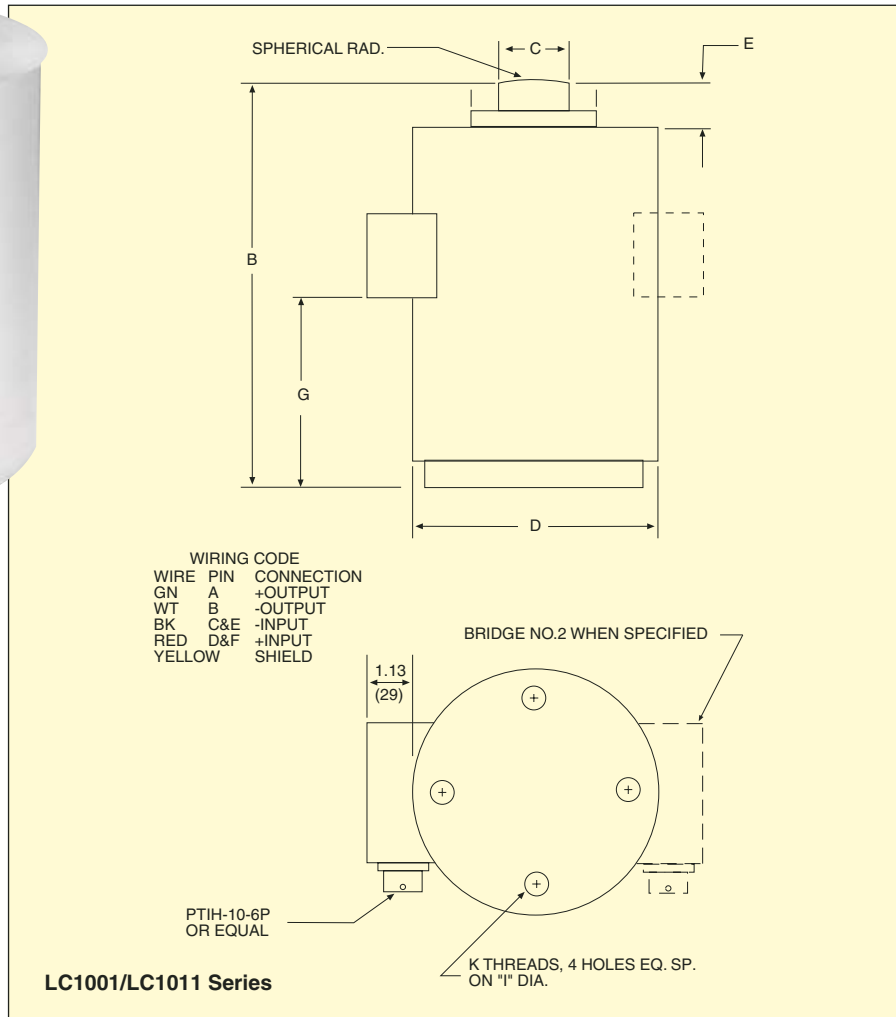
Electrical:

LC1001: 4.8 m (15') 4-conductor shielded PVC cable
LC1011: PTIH-10-6P (or equiv.)

Mating Connector: PT06F-10-6S, \$26.50 (not included)

POPULAR OPTIONS

0 to 5 Vdc Output	"5V"	\$175
Overload Stops:	"-OL"	Consult Factory
Dual Bridge:		
≤2000 kg	"-DUAL"	250
>2000 kg	"-DUAL"	350
Extended Temperature Range:		
-45 to 93°C (-50 to 200°F)	"-TC1"	50
-45 to 177°C (-50 to 350°F)	"-TC2"	225
Watertight Cable Exit:	"-WTC"	125
Additional Cable Length:		6.50/ft



Dimensions: mm (in)

CAPACITY (lb)	D	B	C	E	G	I ±.005	K (THREAD)	WEIGHT kg (lb)
500 to 3K	89 (3.50)	116 (4.6)	32 (1.25)	6 (0.25)	32 (1.25)	60 (2.375)	¾-24 UNF-2B x ¾ DP	2.7 (6)
5K to 10K	89 (3.50)	151 (5.9)	32 (1.25)	19 (0.75)	46 (1.81)	60 (2.375)	¾-24 UNF-2B x ¾ DP	4.5 (10)
20K to 50K	114 (4.50)	191 (7.5)	32 (1.25)	19 (0.75)	77 (3.44)	60 (2.375)	¾-24 UNF-2B x ¾ DP	9 (20)
100,000	141 (5.56)	232 (9.1)	44 (1.75)	27 (1.06)	121 (4.75)	102 (4.000)	½-20 UNF-2B x ½ DP	88 (40)
200,000	168 (6.63)	295 (11.6)	64 (2.50)	27 (1.06)	159 (6.25)	140 (5.500)	5/8-18 UNF-2B x 1 DP	43 (95)
300,000	219 (8.63)	356 (14)	76 (3.00)	33 (1.31)	194 (7.63)	140 (5.500)	¾-16 UNF-2B x 1 ¼ DP	48 (105)
400,000	219 (8.63)	356 (14)	89 (3.50)	33 (1.31)	194 (7.63)	140 (5.500)	¾-16 UNF-2B x 1 ¼ DP	64 (140)
500,000	219 (8.63)	356 (14)	89 (3.50)	22 (0.88)	194 (7.63)	89 (3.500)	½-20 UNF-2B x ¾ DP	77 (170)
1,000,000	219 (8.63)	356 (14)	140 (5.50)	22 (0.88)	140 (5.50)	114 (4.500)	5/8-18 UNF-2B x 1.0 DP	115 (250)
2,000,000	273 (10.75)	406 (16)	178 (7.00)	25 (1.00)	152 (6.00)	140 (5.500)	1-14 UNS-2B x 1 ¼ DP	182 (400)

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