

# HIGH-ACCURACY STAINLESS STEEL CANTILEVER BEAMS

## STANDARD AND METRIC MODELS

**Tension/Compression**  
0-50 lb to 0-30,000 lb-  
Standard Models  
0-25 kgf to 0-10,000 kgf-  
Metric Models



**STANDARD**  
LC501-20K, shown  
smaller than actual size.



**METRIC**  
LCM501-10K, shown  
smaller than actual size.

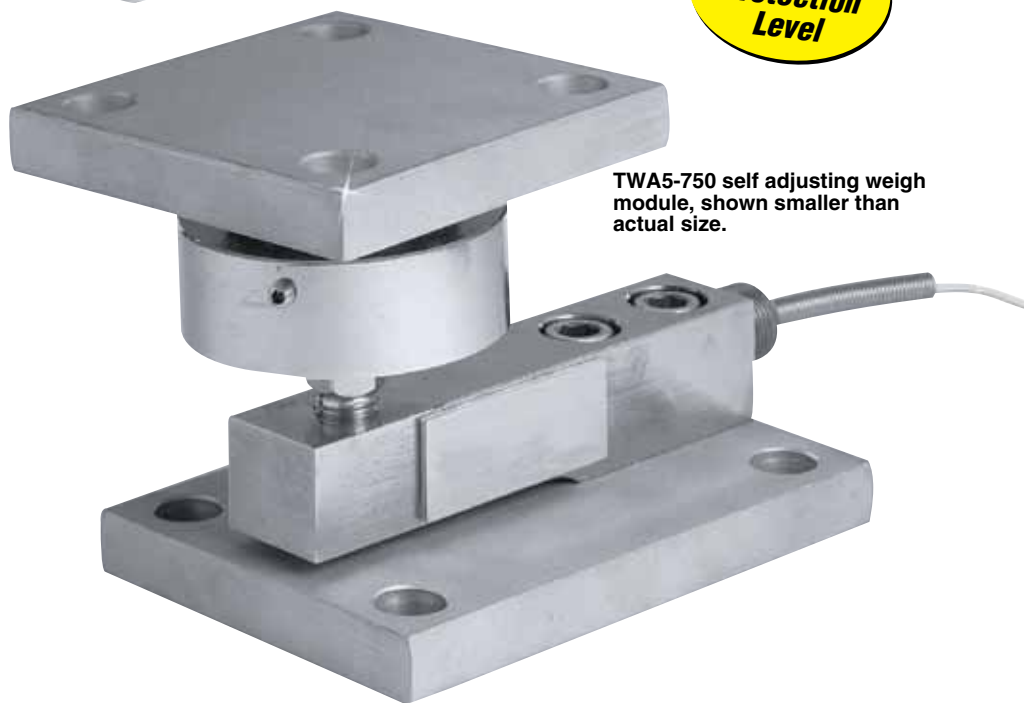
### LC501/LCM501 Series LC511/LCM511 Series



Standard

- ✓ All Stainless Steel Construction for Harsh Industrial Applications
- ✓ 0.25% Interchangeability for Multiple Cell Applications
- ✓ 5-Point Calibration Provided

**IP65  
Protection  
Level**



TWA5-750 self adjusting weigh module, shown smaller than actual size.

## SPECIFICATIONS

**Excitation:** 10 Vdc, 15 Vdc maximum

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

**5-Point Calibrated (in Compression):**

0%, 50%, 100%, 50%, 0%

**Linearity:**  $\pm 0.03\%$  FSO

**Hysteresis:**  $\pm 0.02\%$  FSO

**Repeatability:**  $\pm 0.02\%$  FSO

**Zero Balance:**  $\pm 1\%$  FSO

**Operating Temp Range:**

-34 to 82°C (-30 to 180°F)

**Compensated Temp Range:**

16 to 71°C (60 to 160°F)

**Thermal Effects:**

**Zero:**  $\pm 0.001\%$  FSO/°F (0.0018%/°C)

**Span:**  $\pm 0.001\%$  FSO/°F (0.0018%/°C)

**Safe Overload:** 150% of capacity

**Ultimate Overload:** 300% of capacity

**Input Resistance:** 360  $\Omega$  minimum

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

**FS Deflection:** 0.5 mm (0.02") typical

**Construction:** 17-4 PH stainless steel,  
>30,000 lb, high-alloy steel

**Electrical:**

**LC501/LCM501:** 4.6 m (15')

4 conductor shielded cable

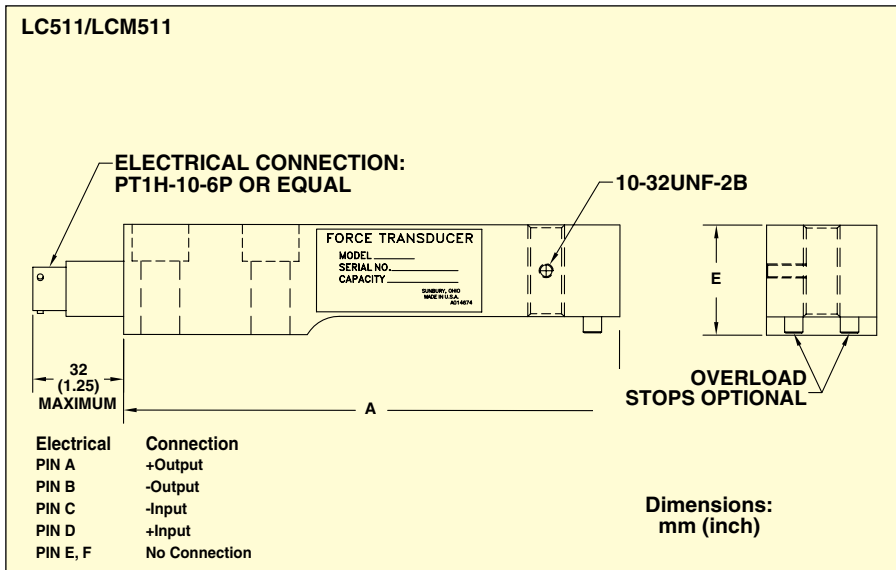
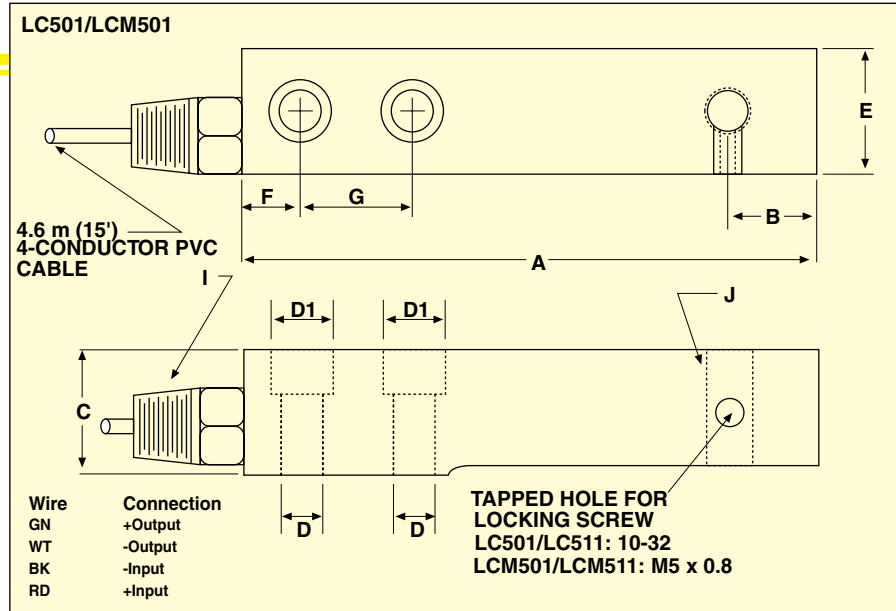
**LC511/LCM511:** 6-pin DT02H-10-6P  
or equivalent

**Mating Connector:** PT06F10-6S

(sold separately)

## Accessory Hardware:

TWA/TWAM Series  
Self-Adjusting Weigh Modules  
Nickel-Plated Carbon Steel or  
Stainless Steel





Dimensions: mm (inch)

CAPACITY	A	B	C	D	D1	E	F	G	I	J	WEIGHT kg (lb)
<b>STANDARD</b>											
50 to 750 lb	121 (4.75)	19 (0.75)	25 (1.0)	9.9 (0.39)	15 (0.59)	25 (1.0)	13 (0.50)	25 (1.0)	3/16-18 UNC	1/2-20	0.9 (2)
1K to 6.5K lb	173 (6.75)	25 (1.0)	38 (1.5)	13 (0.53)	20 (0.77)	38 (1.5)	13 (0.50)	38 (1.5)	1/2-14 UNC	1/2-20	1.8 (4)
7.5K to 10K lb	197 (7.75)	25 (1.0)	38 (1.5)	20 (0.77)	n/a	38 (1.5)	19 (0.75)	51 (2.0)	1/2-14 UNC	3/8-16	2.3 (5)
20K lb	241 (9.50)	25 (1.0)	64 (2.5)	20 (0.77)	n/a	51 (2.0)	25 (1.00)	57 (2.25)	1/2-14 UNC	1-12	5 (11)
30K lb	241 (9.50)	25 (1.0)	64 (2.5)	27 (1.06)	n/a	51 (2.0)	25 (1.00)	57 (2.25)	1/2-14 UNC	1-12	n/a
<b>METRIC</b>											
25 to 250 kgf	121 (4.75)	19 (0.75)	25 (1.0)	9.9 (0.39)	15 (0.59)	25 (1.0)	13 (0.50)	25 (1.0)	3/16-18 UNC	M12 x 1.75	0.9 (2)
500 to 2500 kgf	173 (6.75)	25 (1.0)	38 (1.5)	13 (0.53)	20 (0.77)	38 (1.5)	13 (0.50)	38 (1.5)	1/2-14 UNC	M12 x 1.75	1.8 (4)
5000 kgf	197 (7.75)	25 (1.0)	38 (1.5)	20 (0.77)	n/a	38 (1.5)	19 (0.75)	51 (2.0)	1/2-14 UNC	M20 x 1.5	2.3 (5)
10,000 kgf	241 (9.50)	25 (1.0)	64 (2.5)	20 (0.77)	n/a	51 (2.0)	25 (1.00)	57 (2.25)	1/2-14 UNC	M24 x 2.0	5 (11)

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<b>To Order</b>					
CAPACITY		MODEL NO.		COMPATIBLE METERS	BASE PLATE
kgf	lb	CABLE STYLE	CONNECTOR STYLE		
<b>STANDARD MODELS</b>					
45	100	LC501-100	LC511-100	DP41-B, DP41-S, DP25B-S	<b>BP-10</b>
91	200	LC501-200	LC511-200	DP41-B, DP41-S, DP25B-S	
227	500	LC501-500	LC511-500	DP41-B, DP41-S, DP25B-S	
341	750	LC501-750	LC511-750	DP41-B, DP41-S, DP25B-S	
455	1000	LC501-1K	LC511-1K	DP41-B, DP41-S, DP25B-S	<b>BP-15</b>
909	2000	LC501-2K	LC511-2K	DP41-B, DP41-S, DP25B-S	
1361	3000	LC501-3K	LC511-3K	DP41-B, DP41-S, DP25B-S	
2269	5000	LC501-5K	LC511-5K	DP41-B, DP41-S, DP25B-S	
3402	7500	LC501-7.5K	LC511-7.5K	DP41-B, DP41-S, DP25B-S	
4537	10,000	LC501-10K	LC511-10K	DP41-B, DP41-S, DP25B-S	<b>BP-20</b>
9074	20,000	LC501-20K	LC511-20K	DP41-B, DP41-S, DP25B-S*	
13,612	30,000	LC501-30K	LC511-30K	DP41-B, DP41-S, DP25B-S*	
<b>METRIC MODELS</b>					
25	55	LCM501-25	LCM511-25	DPiS, DP41-S, DP25B-S	<b>MBP-10</b>
50	110	LCM501-50	LCM511-50	DPiS, DP41-S, DP25B-S	
250	551	LCM501-250	LCM511-250	DPiS, DP41-S, DP25B-S	
500	1102	LCM501-500	LCM511-500	DPiS, DP41-S, DP25B-S	<b>MBP-15</b>
1000	2205	LCM501-1K	LCM511-1K	DPiS, DP41-S, DP25B-S	
2500	5512	LCM501-2.5K	LCM511-2.5K	DPiS, DP41-S, DP25B-S	
5000	11,023	LCM501-5K	LCM511-5K	DPiS, DP41-S, DP25B-S	
10,000	22,046	LCM501-10K	LCM511-10K	DPiS*, DP41-S, DP25B-S*	<b>MBP-20</b>

## ACCESSORIES

MODEL NO.	DESCRIPTION	 LOAD BUTTON	 ROD END
<b>STANDARD MODELS</b>			
<b>LBC-012</b>	Load button for ranges 100 to 7500 lb		
<b>LBC-034</b>	Load button for LC501/511-10K		
<b>LBC-101</b>	Load button for LC501/511-20K, LC501/511-30 K		
<b>REC-012M</b>	Rod end for ranges 100 to 7500 lb		
<b>REC-034M</b>	Rod end for LC501/511-10K		
<b>METRIC MODELS</b>			
<b>MLBC-M12</b>	Load button for ranges 25 to 2500 kgf		
<b>MLBC-M20</b>	Load button for LCM501-5K, LCM511-5K		
<b>MLBC-M24</b>	Load button for LCM501-10K, LCM511-10K		
<b>MREC-M12M</b>	Rod end for ranges 25 to 2500 kgf		
<b>MREC-M20M</b>	Rod end for LCM501-5K, LCM511-5K		
<b>MREC-M24M</b>	Rod end for LCM501-10K, LCM511-10K		
<b>COMMON</b>			
<b>PT06F10-6S</b>	Mating connector for LC511/LCM511 series load cells		
<b>CA-4PC24-2-015</b>	4.6 m (15') PVC cable with PT06F10-6S, LC511/LCM511 cable assembly		

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data.

\* 4-digit meter. \*\* Visit us online for compatible meters.

**Note:** Base plates are nickel-plated carbon steel.

To order stainless steel base plates (see Accessories), specify **BP-10-SS**, **BP-15-SS**, **BP-20-SS**.

To order load cells with a twist-lock 6 pin connector, specify **LC511** (standard) or **LCM511** (metric), no extra charge. **PT06F10-6S**, mating connector (sold separately).

**Ordering Examples:** **LC501-5K**, 5000 lb capacity load cell. **REC-012M**, optional rod end, **BP-15**, optional base plate.

**LCM511-5K**, 5000 kgf capacity load cell with twist-lock 6 pin connector, **PT06F10-6S**, mating connector.

**MREC-M20M**, optional rod end, **MBP-15**, optional base plate.