

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.

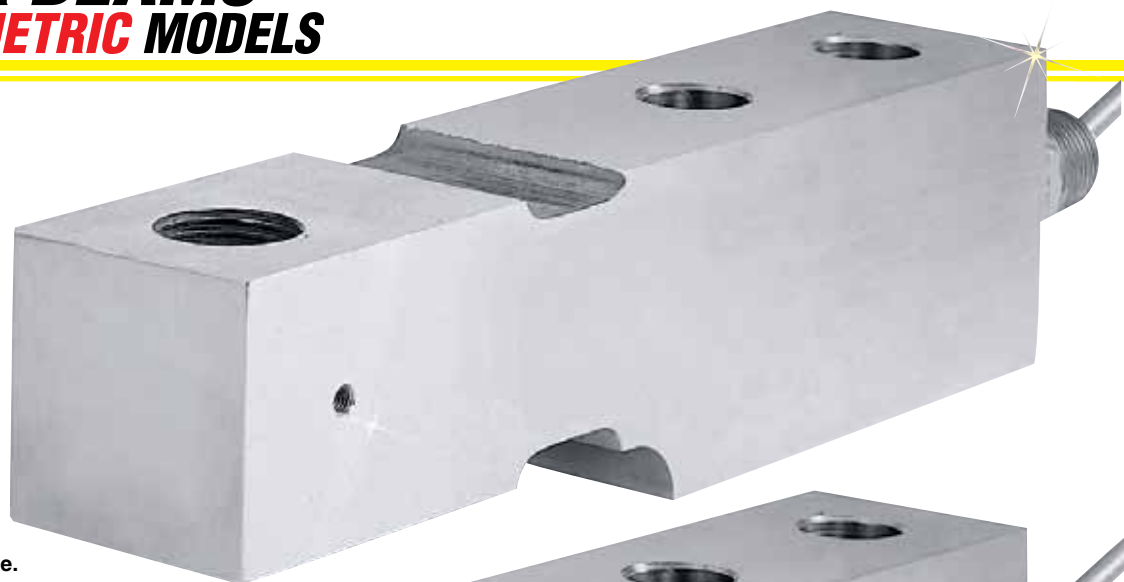
METRIC
LCM501-10K, shown
smaller than actual size.

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 Ω 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

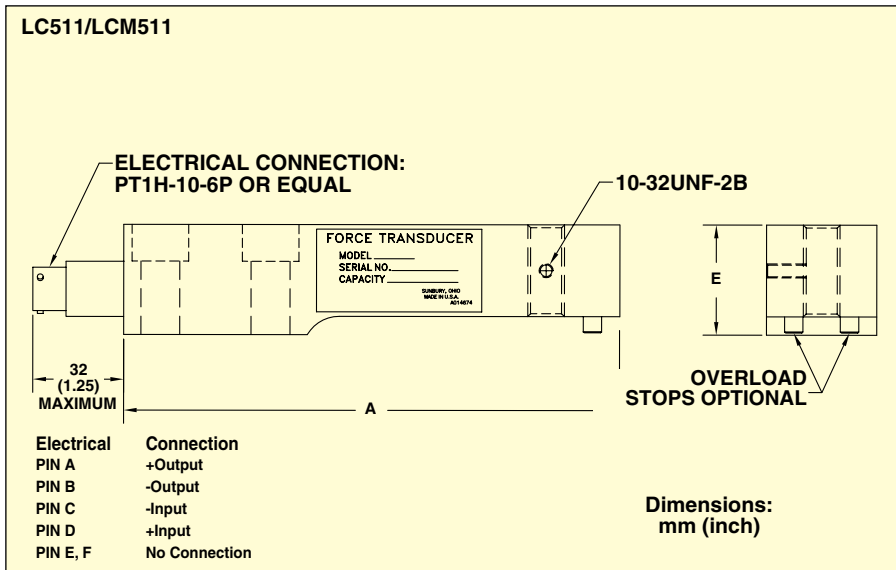
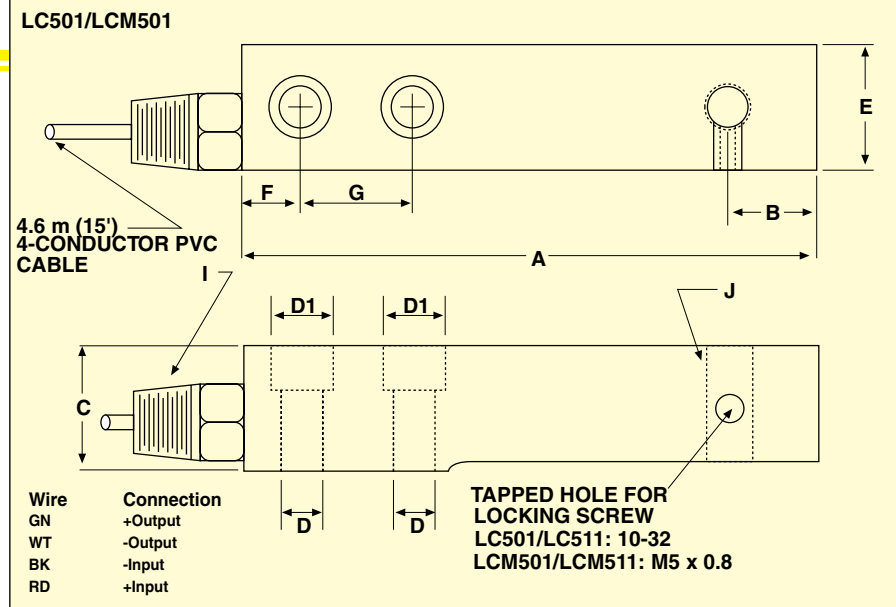
LC511/LCM511: 6-pin DT02H-10-6P
or equivalent

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)


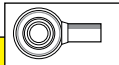
| CAPACITY | A | B | C | D | D1 | E | F | G | I | J | WEIGHT kg (lb) |
|--------------------|---------------|--------------|-------------|---------------|--------------|-------------|--------------|--------------|------------|------------|-------------------|
| STANDARD | | | | | | | | | | | |
| 50 to 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) | 3/8-18 UNC | 1/2-20 | 0.9 (2) |
| 1K to 7.5K 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) |
| 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 |
| METRIC | | | | | | | | | | | |
| 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) | 3/8-18 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) |

HIGH-ACCURACY STAINLESS STEEL CANTILEVER BEAMS

To Order Visit newportUS.com/lc501 for Pricing and Details

| CAPACITY | | MODEL NO. | | COMPATIBLE METERS | BASE PLATE |
|------------------------|--------|-------------|-----------------|--------------------------|------------|
| kgf | lb | CABLE STYLE | CONNECTOR STYLE | | |
| STANDARD MODELS | | | | | |
| 45 | 100 | LC501-100 | LC511-100 | DP41-B, DP41-S, DP25B-S | BP-10 |
| 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 | BP-15 |
| 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 | BP-20 |
| 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* | |
| METRIC MODELS | | | | | |
| 25 | 55 | LCM501-25 | LCM511-25 | DPiS, DP41-S, DP25B-S | BP-10 |
| 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 | BP-15 |
| 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* | BP-20 |

ACCESSORIES

| MODEL NO. | DESCRIPTION | LOAD BUTTON | ROD END |
|------------------------|--|---|---|
| STANDARD MODELS | | | |
| LBC-012 | Load button for ranges 100 to 7500 lb |  |  |
| LBC-034 | Load button for LC501/511-10K | | |
| LBC-101 | Load button for LC501/511-20K, LC501/511-30 K | | |
| REC-012M | Rod end for ranges 100 to 7500 lb | | |
| REC-034M | Rod end for LC501/511-10K | | |
| METRIC MODELS | | | |
| MLBC-M12 | Load button for ranges 25 to 2500 kgf | | |
| MLBC-M20 | Load button for LCM501-5K, LCM511-5K | | |
| MLBC-M24 | Load button for LCM501-10K, LCM511-10K | | |
| MREC-M12M | Rod end for ranges 25 to 2500 kgf | | |
| MREC-M20M | Rod end for LCM501-5K, LCM511-5K | | |
| MREC-M24M | Rod end for LCM501-10K, LCM511-10K | | |
| COMMON | | | |
| PT06F10-6S | Mating connector for LC511/LCM511 series load cells | | |
| CA-4PC24-2-015 | 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 newportUS.com 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 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 connector, **PT06F10-6S**, mating connector.

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

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