

# ALL STAINLESS STEEL "S" BEAM LOAD CELLS HIGH ACCURACY, ECONOMICAL PRICE STANDARD AND METRIC MODELS



**Tension/Compression**  
0-25 lb to 0-40,000 lb  
0-10 kgf to 0-10,000 kgf

## LC101/LCM101 Series LC111/LCM111 Series

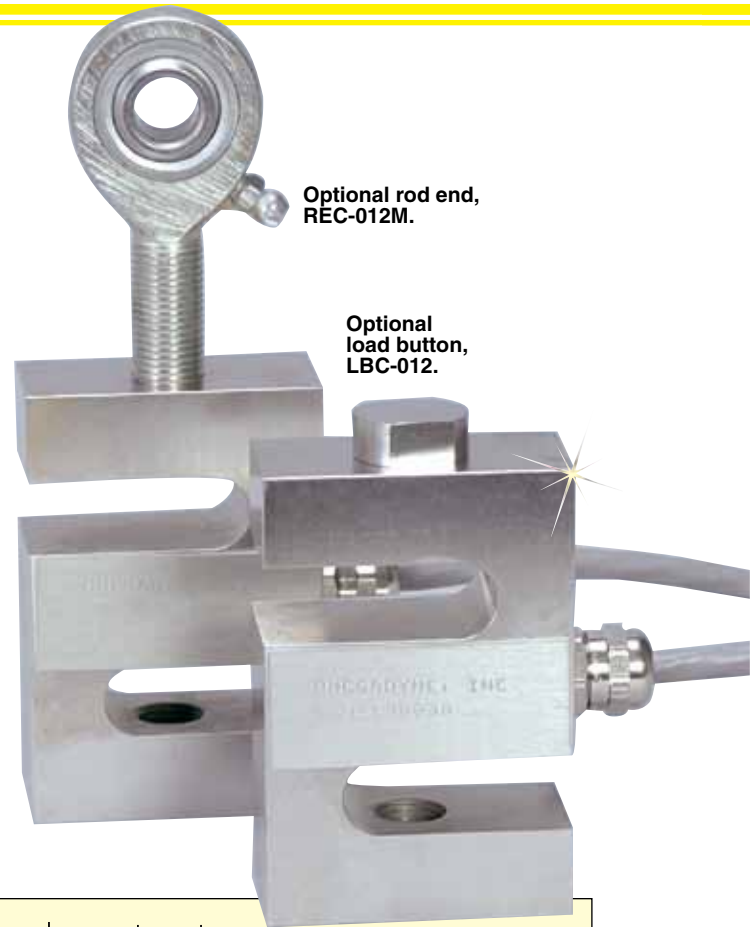


- ✓ All Stainless Steel for Harsh Industrial Applications
- ✓ 0.25% Interchangeability for Multiple Load Cell Applications
- ✓ 5-Point Calibration Provided (in Tension)

### SPECIFICATIONS

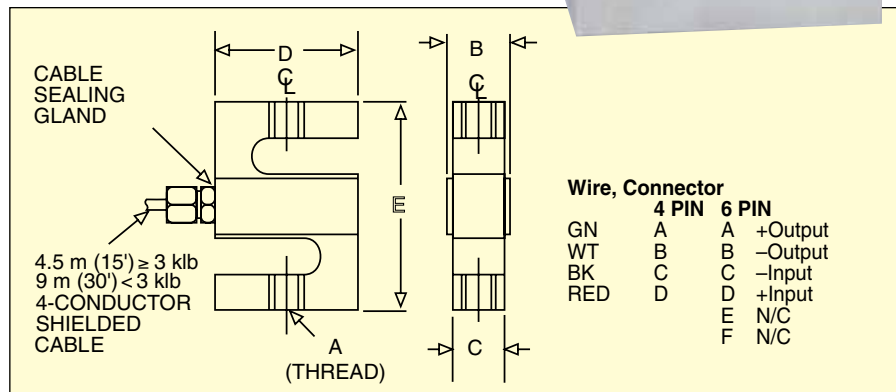
**Excitation:** 10 Vdc, 15 Vdc maximum  
**Output:** 3 mV/V  $\pm 0.0075$  mV/V  
**Linearity:**  $\pm 0.03\%$  FSO (0.1% 40 K)  
**Hysteresis:**  $\pm 0.02\%$  FSO (0.1% 40 K)  
**Repeatability:**  $\pm 0.01\%$  FSO (0.05% 40 K)  
**Zero Balance:**  $\pm 1\%$  FSO  
**Operating Temp Range:**  
 -40 to 93°C (-40 to 200°F)  
**Compensated Temp Range:**  
 17 to 71°C (60 to 160°F)  
**Thermal Effects:**  
 Zero: 0.002% FSO/°C  
 Span: 0.002% FSO/°C  
**Safe Overload:** 150% of capacity  
**Ultimate Overload:** 300% of capacity  
**Input Resistance:** 350  $\pm 10$   $\Omega$   
**Output Resistance:** 350  $\pm 10$   $\Omega$   
**Full Scale Deflection:** 0.010 to 0.020"  
**Construction:** 17-4 PH stainless steel  
**Electrical (LC101/LCM101)**  
**(4-Conductor Shielded Cable):**  
 <100 kgf/250 lb: 9 m (30') 24 AWG  
 250 to 1000 kgf/250 to 2000 lb:  
 9 m (30') 20 AWG  
 $\geq 1500$  kgf/3000 lb: 4.5 m (15') 20 AWG  
**Mating Connector (LC111/LCM111):**  
 $\leq 100$  kgf/200 lb: PT06F8-4S-R,  
 sold separately  
 $\geq 250$  kgf/250 lb: PT06F10-6S-R,  
 sold separately

**STANDARD**  
LC101-2K  
shown slightly  
smaller than  
actual size.



Optional rod end,  
REC-012M.

Optional  
load button,  
LBC-012.



### Dimensions: mm (inch)

| CAPACITY     | A          | B         | C         | D         | E         | WEIGHT kg (lb) |
|--------------|------------|-----------|-----------|-----------|-----------|----------------|
| <b>lb</b>    |            |           |           |           |           |                |
| 25 to 200    | 1/4-28     | 19 (0.75) | 13 (0.50) | 38 (1.5)  | 64 (2.5)  | 0.45 (1.0)     |
| 250 to 2.5K  | 1/2-20     | 32 (1.25) | 25 (1.0)  | 51 (2.0)  | 76 (3.0)  | 1.1 (2.5)      |
| 3K to 5K     | 5/8-18     | 32 (1.25) | 25 (1.0)  | 51 (2.5)  | 89 (3.5)  | 1.6 (3.5)      |
| 10K to 20K   | 1-14       | 44 (1.75) | 38 (1.5)  | 76 (3.0)  | 108 (4.3) | 2.0 (4.5)      |
| 25K to 30K   | 1-14       | 57 (2.25) | 51 (2.0)  | 102 (4.0) | 108 (4.3) | 4 (9)          |
| 40K          | 1 1/4-12   | 83 (3.25) | 76 (3.0)  | 102 (4.0) | 140 (5.5) | 6 (13)         |
| <b>kgf</b>   |            |           |           |           |           |                |
| 10 to 100    | M6 x 1.00  | 19 (0.75) | 13 (0.50) | 38 (1.5)  | 64 (2.5)  | 0.45 (1.0)     |
| 250 to 1000  | M12 x 1.75 | 32 (1.25) | 25 (1.0)  | 51 (2.0)  | 76 (3.0)  | 1.1 (2.5)      |
| 1500 to 2000 | M16 x 2.0  | 32 (1.25) | 25 (1.0)  | 51 (2.5)  | 89 (3.5)  | 1.6 (3.5)      |
| 5K to 10K    | M24 x 2.00 | 44 (1.75) | 38 (1.5)  | 76 (3.0)  | 108 (4.3) | 2.0 (4.5)      |

