

# ALUMINUM "S" BEAM LOAD CELLS

**HIGH ACCURACY, ECONOMICAL PRICE**  
**STANDARD AND METRIC MODELS**



**Tension/Compression  
Calibrated in Tension  
0-25 lb to 0-1000 lb  
0-11 kgf to 0-455 kgf**

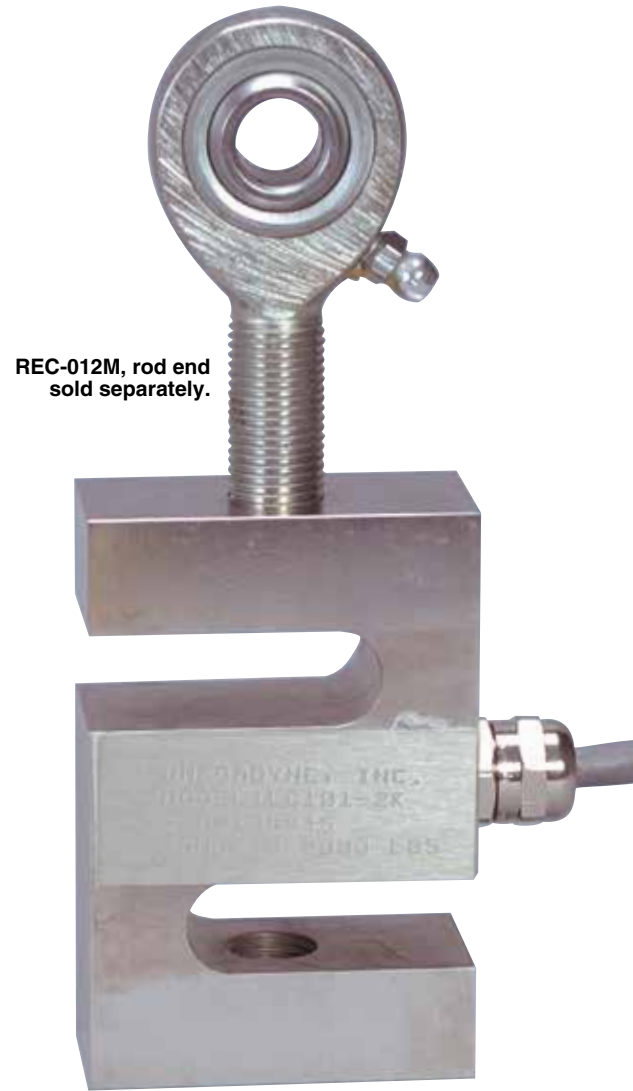
**LC105/LCM105 Series  
LC115/LCM115 Series**



- ✓ Aluminum—for Light Weight and Durability
- ✓ 5-Point Calibration Provided (in Tension)



Low ranges **standard/metric**  
LC105-25 shown actual size.



REC-012M, rod end  
sold separately.

High ranges **standard/metric**  
LC105-500 shown actual size.

## SPECIFICATIONS

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

**Output:** 3 mV/V ±0.0075 mV/V

**Linearity:** ±0.03% FSO

**Hysteresis:**

±0.05% FSO (≤ 250 lbs or 100 kgf)

±0.02% FSO (> 250 lbs or 100 kgf)

**Repeatability:** ±0.01% FSO

**Zero Balance:** ±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% rdg/°C

**Safe Overload:** 150% of capacity

**Ultimate Overload:** 300% of capacity

**Bridge Resistance:** 350 ± 5 Ω

**Full Scale Deflection:** 0.25 to 0.50 mm (0.010 to 0.020")

**Construction:** Aluminum

**Electrical (4-Conductor Shielded Cable):**

≤100 kgf/200 lb: 9 m (30') 24 AWG

>100 kgf/200 lb: 9 m (30') 20 AWG

**LC115 Mating Connector:**

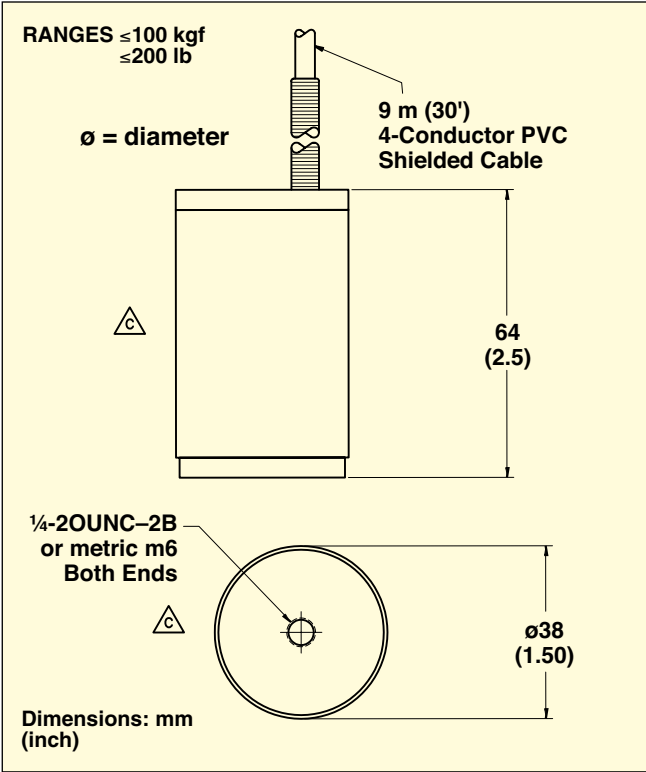
PT06F10-6S-R (sold separately)

**LC115 Cable Assembly with Twist-Lock Connector:**

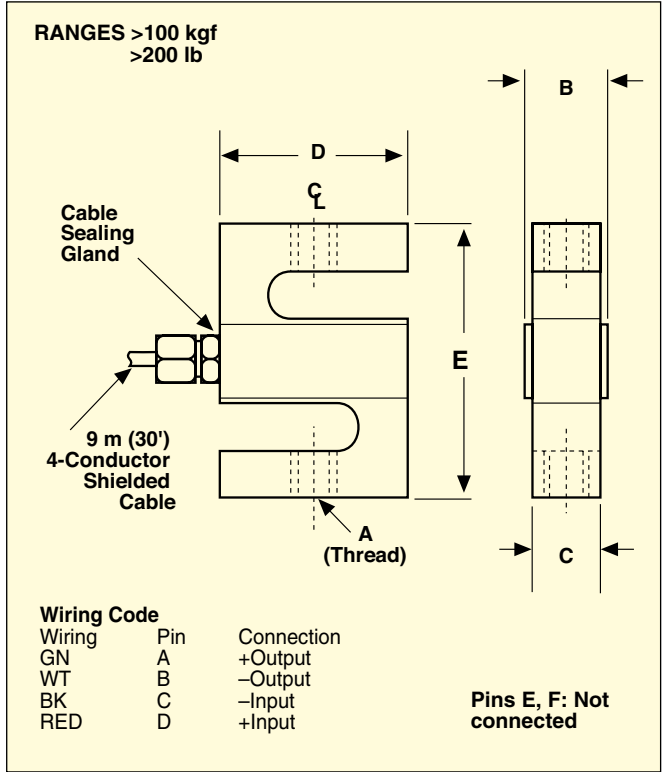
CA-4PC24-2-015 (sold separately)

**Protection Class:** IP65

**Low Ranges**

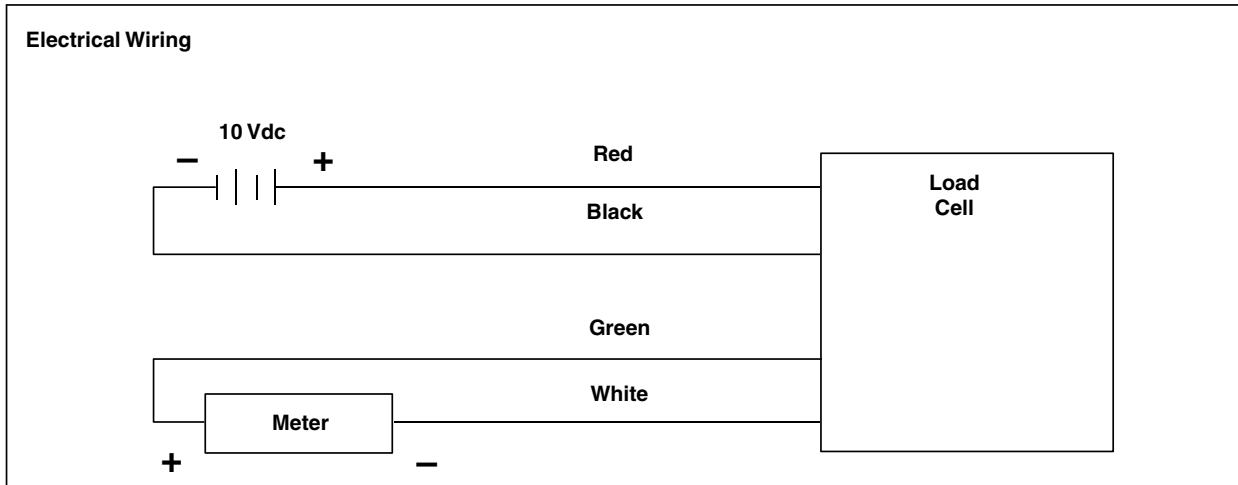


**High Ranges**



**Dimensions: mm (inch)**

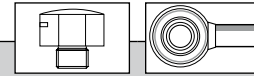
Capacity	A	B	C	D	E	Weight kg (lb)
250 to 1000 (lb)	$\frac{1}{2}$ -20 UNF	32 (1.25)	25 (1.0)	51 (2.0)	76 (3.0)	0.5 (1.1)
250 to 500 (kgf)	M12 x 1.75-6H	32 (1.25)	25 (1.0)	51 (2.0)	76 (3.0)	0.5 (1.1)



# ALUMINUM "S" BEAM LOAD CELLS

## HIGH ACCURACY, ECONOMICAL PRICE

### STANDARD AND METRIC MODELS



To Order					
Capacity		Cable† Model No.	Compatible Meters*	Load Button	Rod End
lb	kgf			Model No.	Model No.
<b>STANDARD MODELS</b>					
25	11	LC105-25	DPiS, DP41-S, DP25B-S	—	—
50	23	LC105-50	DPiS, DP41-S, DP25B-S	—	—
100	45	LC105-100	DPiS, DP41-S, DP25B-S	—	—
200	91	LC105-200	DPiS, DP41-S, DP25B-S	—	—
250	114	LC105-250†	DPiS, DP41-S, DP25B-S	LBC-012	REC-012M
500	227	LC105-500†	DPiS, DP41-S, DP25B-S	LBC-012	REC-012M
1000	455	LC105-1K†	DPiS, DP41-S, DP25B-S	LBC-012	REC-012M
<b>METRIC MODELS</b>					
22	10	LCM105-10	DP41-B, DP41-S, DP25B-S	MLBC-M6	MREC-M6M
55	25	LCM105-25	DP41-B, DP41-S, DP25B-S	MLBC-M6	MREC-M6M
110	50	LCM105-50	DP41-B, DP41-S, DP25B-S	MLBC-M6	MREC-M6M
220	100	LCM105-100	DP41-B, DP41-S, DP25B-S	MLBC-M6	MREC-M6M
551	250	LCM105-250†	DP41-B, DP41-S, DP25B-S	MLBC-M12	MREC-M12M
1102	500	LCM105-500†	DP41-B, DP41-S, DP25B-S	MLBC-M12	MREC-M12M

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

\* Visit us online for compatible meters.

† Connector style available: change model number from LC105 to LC115, or from LCM105 to LCM115, no additional charge.

Ordering Examples: LC105-100, ±100 lb capacity load cell.

LCM105-250, 250 kgf capacity load cell. REC-012M, matching rod end. PT06F10-6S, mating connector (sold separately).

#### Accessories

Model No.	Description
PT06F10-6S-R	Mating connector for LC115/LCM115 series load cells
CA-4PC24-2-015	Cable assembly with twist lock connector for LC115/LCM115 series load cells

## 1/8 DIN STRAIN METERS WITH OPTIONAL RELAYS AND ANALOG OUTPUT

### DP25B Series



- ✓ Relay Output with Adjustable Deadband
- ✓ Isolated or Non-Isolated Analog Output
- ✓ Totally Programmable Color Display
- ✓ Low-Voltage Power Options

The OMEGA™ DP25B Series meters have the biggest, brightest display of any 1/8 DIN panel meter. The user can select the display color: **RED**, **AMBER**, or **GREEN**.

Along with the 4-digit, 9-segment display, these low-cost panel meters/controllers provide unparalleled accuracy in signal conditioning. Additional features include microprocessor-based operation; dual 5 A SPDT relays (optional); and isolated or non-isolated

**PATENTED**



DP25B shown smaller than actual size.

analog output in ranges of 0 to 10 Vdc, 0 to 20 mA, or 4 to 20 mA, which can be used for retransmission of the display value or as a proportional control output.

Because they accept a wide range of DC voltage and current inputs, the DP25B-E strain meters can handle most process and strain applications. Features include easy front-panel scaling to virtually any engineering units, a remote tare function for weighing applications, and a hardware lockout to prevent unauthorized changes in setup. In addition, the DP25B-E meters feature built-in excitation in 4 user-selectable voltages, which makes them compatible with most transducers and transmitters.