AMPLIFIED VOLTAGE OUTPUT BEAM-TYPE LOAD CELLS

LC509 Series

Compression
0-5 lb to 0-100 lb
2.3 kgf to 45 kgf

1 Newton = 0.2248 lb
1 daNewton = 10 Newtons
1 lb = 454 g
1 t = 1000 kgf = 2204 lb

LC509-005, $295, shown smaller than actual size.

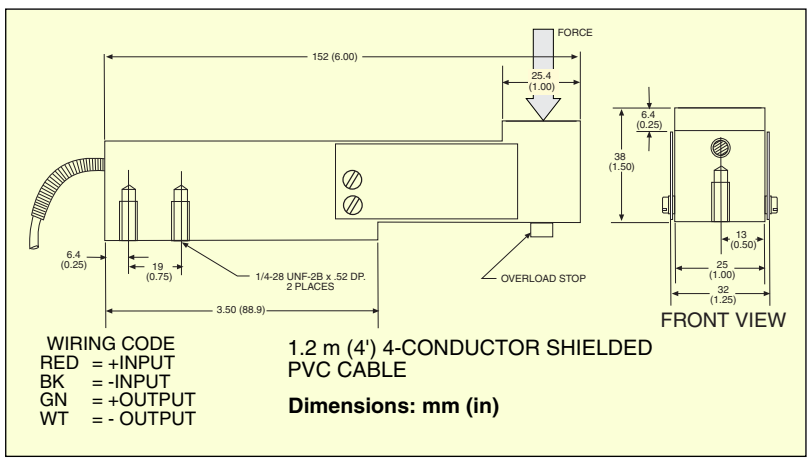
All Models
$295

MADE IN USA NIST OMEGADYNE CE RoHS

Standard

- **Lightweight Aluminum Construction**
- **High 0.25% Accuracy**
- **0.5 to 9.5 Vdc Output**
- **Heavy-Duty Construction for Weighing Applications**
- **Built-In Overload Stop**

The unique LC509 Series beam type load cells combine high accuracy with an internal amplifier that gives a high-level DC voltage output. Applications include industrial weighing and automated batching operations in which the interfacing controller requires an amplified voltage input. Built-in overload stops and a rugged design make the LC509 a highly reliable transducer for industry. In addition, users can have high tare offsets built in for their OEM applications.



WIRING CODE
RED = +INPUT
BK = -INPUT
GN = +OUTPUT
WT = - OUTPUT

1.2 m (4') 4-CONDUCTOR SHIELDED PVC CABLE

Dimensions: mm (in)

SPECIFICATIONS

Output: 0.5 to 9.5 Vdc
Excitation: 24 Vdc ±4 Vdc
Accuracy Class: 0.25% FSO; includes linearity, hysteresis, repeatability and zero balance combined
Operating Temp Range: -48 to 60°C (-55 to 140°F)
Compensated Temp Range: 0 to 60°C (32 to 140°F)
Thermal Effects: ±0.69% FSO, zero and span combined over compensated range
Construction: 2024-T351 aluminum
Overload to Stops:
≤**25 lb:** 500% of capacity
>**25 lb:** 300% of capacity
Ultimate Overload: 800% of capacity
Electrical: 1.2 m (4') 4-conductor shielded PVC cable
Protection Class: IP65

MOST POPULAR MODEL HIGHLIGHTED!

To Order *(Specify Model Number)*

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
5 lb	2.3 kgf	**LC509-005**	**$295**	DP41-B, DP41-S, DP25B-S
10 lb	4.5 kgf	**LC509-010**	**295**	DP41-B, DP41-S, DP25B-S
15 lb	6.8 kgf	**LC509-015**	**295**	DP41-B, DP41-S, DP25B-S
25 lb	11 kgf	**LC509-025**	**295**	DP41-B, DP41-S, DP25B-S
50 lb	23 kgf	**LC509-050**	**295**	DP41-B, DP41-S, DP25B-S
100 lb	45 kgf	**LC509-100**	**295**	DP41-B, DP41-S, DP25B-S

** See section D for compatible meters.*
Ordering Example: LC509-005,** 5 lb capacity load cell with 7.75 lb offset and 0.5 to 9.5 Vdc output with 1.2 m (4') of cable, **$295.

Recommended Reference Book: Handbook of Mechanical Engineering, **ME-1708, $190**
See Section Y For Additional Books