

PLANAR BEAM LOAD CELL

LOW PROFILE DESIGN FOR PLATFORM SCALES



LCPB Series



- ✓ All Aluminum Construction
- ✓ Low Profile Design
- ✓ Low Cost for OEM Applications
- ✓ IP67 Environmental Rating
- ✓ 5, 10, 20 and 100 kg Ranges

LCPB shown actual size.

OMEGA's LCPB Series planar beam load cells are low cost OEM style, commonly used in a variety of weighing applications. They are normally installed in sets of 3 or 4 under a platform in conjunction with a summing network. It's low profile construction is ideal for scale design where space is limited such as postal scales, airport baggage scales or retail checkout scales.

SPECIFICATIONS

Excitation: 5 Vdc, 15 Vdc maximum

Output: 1 mV/V $\pm$ 0.1%

Linearity: $\pm$ 0.02% FS

Hysteresis: $\pm$ 0.01% FS

Zero Balance: $\pm$ 5% FS

Creep (in 30 minutes): $\pm$ 0.03% FS

Operating Temp Range: -10 to 100°C (14 to 212°F)

Compensated Temp Range:

-10 to 100°C (14 to 212°F)

Thermal Effects:

Span: $\pm$ 0.005% FS/°C (0.003/°F)

Zero: $\pm$ 0.005% FS/°C (0.003/°F)

Safe Overload: 300% of capacity

Ultimate Overload: 400% of capacity

Terminal Resistance:

Input: 1165 $\pm$ 50 Ω

Output: 1000 $\pm$ 10 Ω

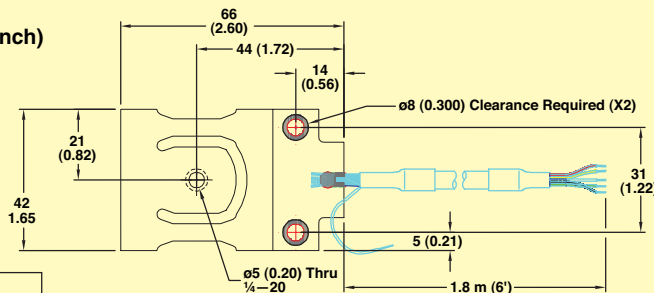
Construction: Aluminum

Environmental Rating: IP67

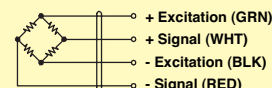
Electrical Connection: 1.8 m (6'), 28 AWG, 4 conductor shielded cable

Insulation Resistance: > 5000M Ω

Dimensions: mm (inch)



CAPACITY	X mm (inch)
5 kg	2 (0.080)
10 kg	3 (0.118)
20 kg	4 (0.160)
100 kg	10 (0.375)



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CAPACITY		MODEL NO.	"X" DIMENSION mm (inch)	COMPATIBLE METERS
kg	lb			
5	11	LCPB-5	2.03 (0.080)	DP25B-S, DP41-S, DPiS
10	22	LCPB-10	3.00 (0.118)	DP25B-S, DP41-S, DPiS
20	44	LCPB-20	4.06 (0.160)	DP25B-S, DP41-S, DPiS
100	220	LCPB-100	9.53 (0.375)	DP25B-S, DP41-S, DPiS

Ordering Example: LCPB-20, planar beam load cell with 0 to 20 kg range.