

LCB27 Series

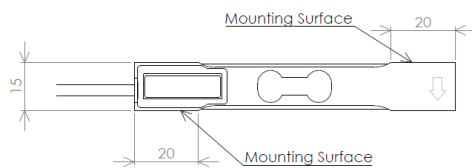
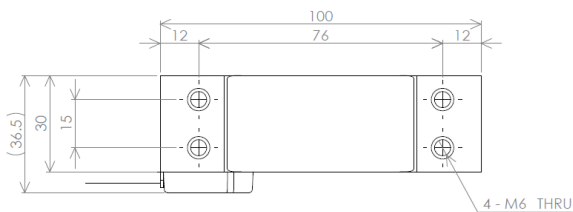
Small and Lightweight Single-Point Load Cell for Space-Constrained Applications



- **Slim Design:** Length 100 mm, Height 15 mm
- **Ideal for:** Small weighing platforms used in weighing, mixing, and filling applications



External Dimensions



CABLE COLOR CODE
RED: EXC+ WHITE: EXC- GREEN: SIG+ BLUE: SIG- YELLOW: SHIELD

Specifications

	LCB27K006	LCB27K010	LCB27K015	LCB27K020
Rated capacity (R.C.)	58.8N (6 kg)	98 N (10 kg)	147 N (15 kg)	196 N (20 kg)
Allowable moment	2.08 N m	3.47 N m	5.20 N m	6.93 N m
Rated deflection	0.30 mm	0.15 mm	0.15 mm	0.17 mm
Natural frequency	335 Hz	503 Hz	598 Hz	666 Hz
Weight	96 g	107 g	108 g	108 g
Rated output (R.O.)	2 mV/V $\pm$ 10 %			
Combined error	0.02 % of R.O.			
Non-linearity	0.012 % of R.O.			
Hysteresis	0.012 % of R.O.			
Repeatability	0.011 % of R.O.			
Recommended excitation voltage	5 to 12 VDC			
Maximum excitation voltage	15 VDC			
Zero balance	$\pm$ 5 % of R.O.			
Input terminal resistance	420 Ω $\pm$ 30 Ω			
Output terminal resistance	350 Ω $\pm$ 5 Ω			
Insulation resistance	Greater than 2000 M Ω at 50 VDC			
Temperature effect on zero point	0.023 % of R.O. / 10 $^{\circ}$ C			
Temperature effect on span	0.014 % of Load / 10 $^{\circ}$ C Typ.			
Temperature compensation range	-10 to 40 $^{\circ}$ C			
Operating temperature range	-10 to 40 $^{\circ}$ C			
Safe overload	150 % of R.C.			
Ultimate overload	200 % of R.C.			
Cable	ϕ 3.5, 4-core shielded cable, 0.4 m			
Dustproof/waterproof	IP65			
Material	Aluminum			
Maximum platform size	300 x 300 mm			



Discover Precision

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