LCV-A series is compact and lightweight load cells developed for large capacities of 500 kN and 1 MN. They can easily be installed into existing facilities. The hermetically-sealed structure with inert gas filled in ensures stable and reliable performance with 1/1000 accuracy. Use of BISELCOM gage

Compact, Lightweight

Nonlinearity 1/1000 Fatigue Life ≥1 × 10⁷

ensures increased output and improved reliability.

BISELCOM Gage Used



Specifications

Performance							
Rated Capacity	See table below.						
Nonlinearity	Within ±0.1% RO						
Hysteresis	Within ±0.1% RO						
Repeatability	0.05% RO or less						
Rated Output	2.5 mV/V (5000 μm/m) ±0.2%						
Environmental Capab	pility						
Safe Temp. Range	–20 to 80°C						
Comp. Temp. Range	–10 to 70°C						
Temp. Effect on Zero Bal.	Within ±0.005% RO/°C						
Temp. Effect on Out.	Within ±0.005%/°C						
Electrical Characteris	Electrical Characteristics						
Safe Excit. Voltage	20 V AC or DC						
Recom. Excit. Voltage	1 to 10 V AC or DC						
Input Resistance	350 Ω ±0.5%						
Output Resistance	$350~\Omega\pm0.5\%$						

Mechanical Properties

Cable

Safe Overload Rating 150%

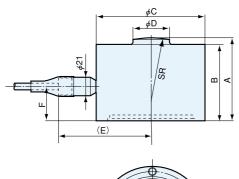
Natural Frequency	Model	Nat. Freq. (App.)	Weight (App.)			
	LCV-A-500KN	13 kHz	6kg			
	LCV-A- 1MN	12 kHz	11 kg			

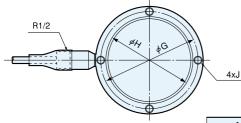
4-conductor (0.5 mm²) chloroprene shielded cable,

8.5 mm dia. by 5 m long, with a press-fit terminal for 4 mm (Shield wire is not connected to the mainframe.)

Protection Rating IP 67 (Watertight type conforming to JIS C 0920)

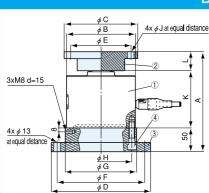
Dimensions





Model	Rated Capacity	Α	В	ϕ C	ϕD	Е	F	ϕ G	ϕ H	J	R
LCV-A-500KN 500 kN		95	88	126	42	107	40	113	101	M10 d=12	125
LCV-A-1MN	1 MN	120	110	146	58	117	50	130	115	M12 d=18	180

Dimensions with Accessories Mounted



In Combination with Saddle CA and Mount Base CF

	Load Cell Proper	Saddle ②	Mount Base ③	Hexagon Socket Head Cap Screw	Α	φΒ	φC	φD	φΕ	φF	ϕ G	φН	φJ	к	L
	LCV-A-500KN	CA-50B	CF-113F	4-M10 L=45	173	126	118	178	100	154	130	113	11	95	28
Ī	LCV-A-1MN	CA-1MH	CF-130F	4-M12 L=50	210	146	156	208	128	184	150	130	13	120	40

Hexagon socket head cap screw is attached to the mount base for its connection to the load cell.