

LCV-A

● Compact and large capacity ● 500 kN & 1 MN

Small-sized Compression Load Cell

Compact & lightweight
High accuracy

●BISELCOM gages are used.

LCV-A series is a compact & lightweight load cell developed for large capacity (500 kN and 1 MN). They are easily installed into existing facilities. The hermetically-sealed structure with inert gas filled in ensures stable and reliable performance with 0.1% nonlinearity. Use of BISELCOM gages ensures increased output and improved reliability.

*BISELCOM gages are self-temperature-compensation gages with the sensitivity temperature compensation function added.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.1\%$ RO
Hysteresis	Within $\pm 0.1\%$ RO
Repeatability	0.05% RO or less
Rated Output	2.5 mV/V $\pm 0.2\%$

Environmental Characteristics

Safe Temperature	-20 to 80°C
Compensated Temperature	-10 to 70°C
Temperature Effect on Zero	Within $\pm 0.005\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.005\%$ /°C

Electrical Characteristics

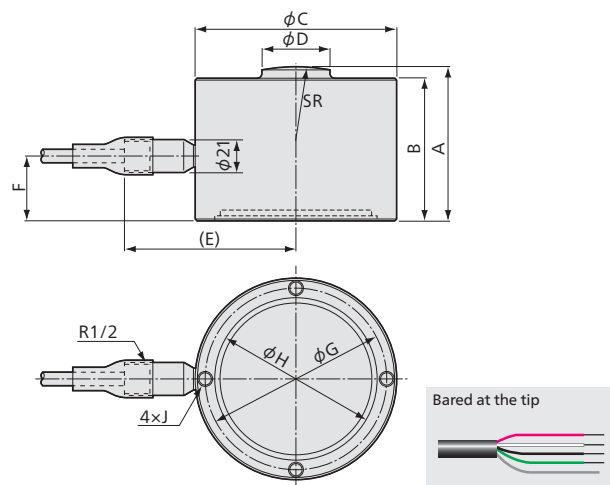
Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 $\Omega \pm 0.5\%$
Output Resistance	350 $\Omega \pm 0.5\%$
Cable	4-conductor (0.5 mm ²) chloroprene shielded cable, 8.5 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (IEC 60529)

Optional Accessories Saddle CA
 Mount base CF

■ Dimensions

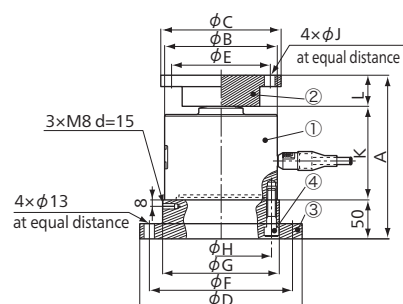


Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	ϕC	ϕD	(E)	F	ϕG	ϕH	J	SR	Weight (Approx.)*
LCV-A-500KN	500 kN	13 kHz	95	88	126	42	107	40	113	101	M10 d=12	125	6 kg
●LCV-A-1MN	1 MN	12 kHz	120	110	146	58	117	50	130	115	M12 d=18	180	10 kg

●For delivery date, please contact us.

*Excluding cable

■ Dimensions in combination with accessories



●In combination with saddle (CA) and mount base (CF)

① Load Cells	② Saddles	③ Mount Bases	④ Hex. Socket Head Bolts	A	ϕB	ϕC	ϕD	ϕE	ϕF	ϕG	ϕH	ϕJ	K	L
LCV-A-500KN	CA-50B	CF-113F	4xM10 L=45	173	126	118	178	100	154	130	113	11	95	28
LCV-A-1MN	CA-1MH	CF-130F	4xM12 L=50	210	146	156	208	128	184	150	130	13	120	40

Hexagon socket head bolts to connect the load cell to the mount base are attached to the mount base.

Load Cells
(Load Transducers)

Outline

Compressive

Tensile

Tensile &
compressive

Component

Special

Other