



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor

LC-V

Small-sized Compression Load Cell



Highly accurate

- Rated capacity: 50 to 200 kN
- Degree of protection: IP67
- Uses BISELCOM gage*

*BISELCOM gages are self-temperature-compensation strain gages with added sensitivity temperature compensation functionality.

Small-sized and lightweight load cells that can be easily installed in existing equipment. Fixtures for installing to a hopper scale are also available.

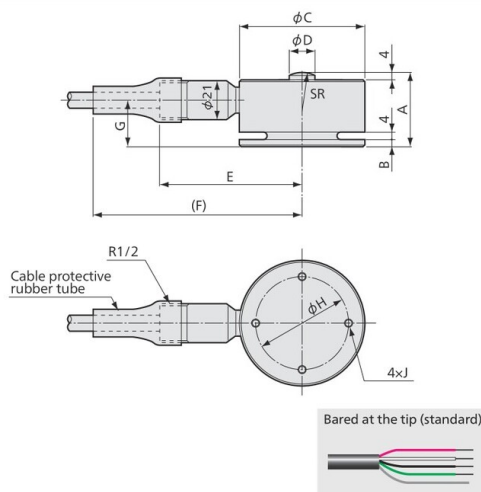
Models

Model	Rated Capacity	Natural Frequencies (Approx.)	A	B	φC	φD	E	(F)	G	φH	J	SR	Weight (Approx.) ^{*1}
LC-5TV	50 kN	17 kHz	40	4	68	14	78	114	25	50	M5	40	1 kg
LC-10TV	100 kN	16 kHz	45	5	78	20	83	119	29	60	M6	70	1.3 kg
LC-20TV	200 kN	15 kHz	55	6	98	26	93	129	36	80	M8	120	3.1 kg

*1 Excluding cable

*TEDS-installed models are available. Please contact us.

Dimensions



Specifications

Performance

Rated Capacity See table below.

Nonlinearity Within $\pm 0.05\%$ RO

Hysteresis Within $\pm 0.05\%$ RO

Repeatability 0.03% 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 $\pm 0.003\%$ RO/ $^{\circ}\text{C}$

Temperature Effect on Output Within $\pm 0.003\%$ / $^{\circ}\text{C}$

Electrical Characteristics

Safe Excitation 20 V AC or DC

Recommended Excitation 1 to 10 V AC or DC

Input Resistance 350 Ω $\pm 0.5\%$

Output Resistance 350 Ω $\pm 0.5\%$

Cable 4-conductor (0.5 mm²) 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 (JIS C 0920/IEC 60529)

Compliance Directive 2011/65/EU, (EU)/2015/863 (10 restricted substances) (RoHS)

Optional Accessories

Saddle CA

Mount base CF

Steady brace CR

Steady Brace CR

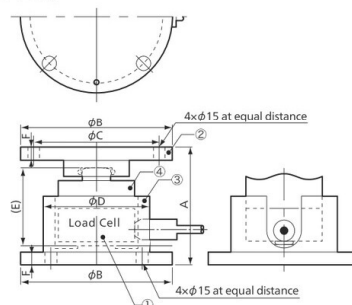
This product is a bracket used when fitting a hopper scale with a load cell in place of a load striker plate or mount base.

*Please be sure to order an assembled load cell with steady braces (With charge).



Configuration Diagram

- Load cell LC-V in combination with steady brace (CR)



① Load cell	②③④ Steady Brace	A	φB	φC	φD	(E)	F	Weight (Approx.)
LC-5TV	CR-5	120	148	126	96	80	13	7 kg
LC-10TV	CR-10	120	158	136	110	80	13	8.5 kg
LC-20TV	CR-20	145	187	164	136	95	15	15.6 kg