

Small-sized Compression Load Cell



Compact & lightweight Nonlinearity: Within $\pm 0.05\%$ RO

- Hermetically sealed structure with inert gas filled in
- BISELCOM gages are used.

Compact & lightweight design facilitates installation into existing facilities. While nonlinearity of within $\pm 0.05\%$ RO is ensured, the hermetically-sealed structure with inert gas filled in enables highly stable and reliable measurement.

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

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/°C
Temperature Effect on Output	Within $\pm 0.003\%$ /°C

Electrical Characteristics

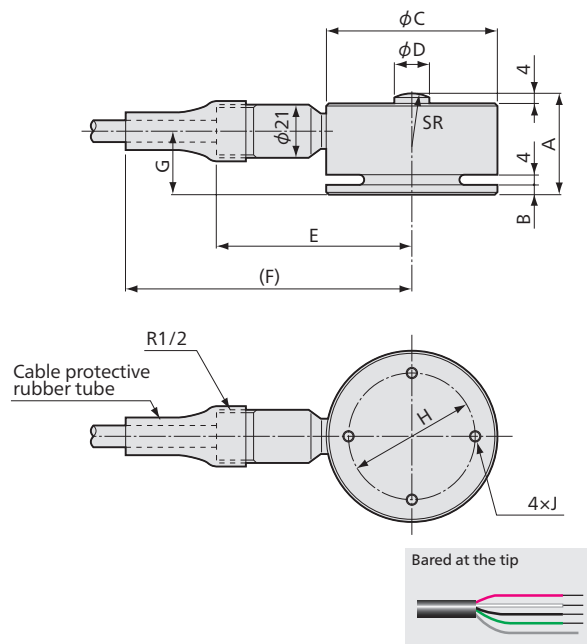
Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 $\Omega \pm 0.5\%$
Output Resistance	350 $\Omega \pm 0.5\%$
Cable	4-conductor (0.5 mm ²) chloroprene shielded cable, 8.5 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (IEC 60529)
Compliance	Directive 2011/65/EU (RoHS)

Optional Accessories Saddle CA-B (Page 2-72)
Mount base CF (Page 2-72)
Steady brace CR (Page 2-22)

Dimensions



Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	ϕC	ϕD	E	(F)	G	H	J	SR	Weight (Approx.)*
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

*Excluding cable

●Physical quantity indication

●Static measurement ●Dynamic measurement

LC-V
Recommended
products for
combination

