

LC-J

Corrosion-resistant Compression Load Cell



Suited for weighing in food processing or when exposed to liquid, gas, etc.

- Rated capacity: 5 to 200 kN
- Corrosion resistant
- High safe overloads (400%)

Load cells with a hermetically-sealed structure filled with inert gas, for use for weighing in food processing or when exposed to corrosive liquid, gas, etc.

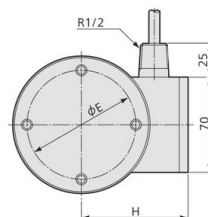
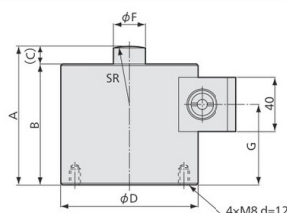
Models

Model	Rated Capacity	Natural Frequencies (Approx.)	A	B	(C)	φD	φE	φF	G	H	SR	Weight (Approx.) ^{*1}
LC-500KJ	5 kN	5.2 kHz	103	90	13	100	80	24	60	77	50	3 kg
LC-1TJ	10 kN	6 kHz									70	
LC-2TJ	20 kN	5.8 kHz									100	
LC-5TJ	50 kN	5.7 kHz									130	
LC-10TJ	100 kN	5.5 kHz	110	95	15	120	90	36	80	90	100	5 kg
LC-20TJ	200 kN	6 kHz	135	115	20			46			130	6 kg

*1 Excluding cable

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

Dimensions



Connector plug (standard)
PRC03-12A10-7M



Specifications

Performance

Rated Capacity See table below.

Nonlinearity Within $\pm 0.5\%$ RO

Hysteresis Within $\pm 0.5\%$ RO

Repeatability 0.1% RO or less

Rated Output 1 mV/V $\pm 0.2\%$

Environmental Characteristics

Safe Temperature -35 to 80°C

Compensated Temperature -10 to 70°C

Temperature Effect on Zero Within $\pm 0.005\%$ RO/ $^{\circ}\text{C}$

Temperature Effect on Output Within $\pm 0.005\%$ / $^{\circ}\text{C}$

Electrical Characteristics

Safe Excitation 20 V AC or DC

Recommended Excitation 1 to 12 V AC or DC

Input Resistance $350\ \Omega \pm 0.5\%$

Output Resistance $350\ \Omega \pm 0.5\%$

Cable 4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 5 m long, terminated with a connector plug PRC03-12A10-7M (Shield wire is connected to the case.)

Mechanical Properties

Safe Overloads 400%

Natural Frequencies See table below.

Weight See table below.

1
-60

Sensor



Strain Gage

Load Cell

Pressure
Sensor

Acceleration
Sensor

Torque
Sensor

Displacement
Sensor

Component
Force
Sensor

Automotive
Sensor

Civil
Engineering
Sensor