



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
Sensor

LC-FH

High Temp. Compression Load Cell



*The figure is LC-1TFH.

High-temperature load cells with a sealed structure

- Rated capacity: 5 to 200 kN
- High temp (compensated: -10 to 150°C)

High-temperature load cells able to continuously operate at temperatures up to 150°C with no external cooling.

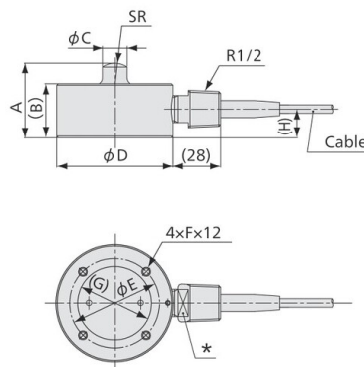
Models

Model	Rated Capacity	Natural Frequencies (Approx.)	A	(B)	φC	φD	φE	F	(G)	(H)	SR	Weight (Approx.) ^{*1}
LC-500KFH	5 kN	11 kHz	44	34	10	68	52	M5	42	17	30	800 g
LC-1TFH	10 kN	17 kHz										
LC-2TFH	20 kN	21 kHz	60	45	18	96	80	M8	62	25	70	2.0 kg
LC-5TFH	50 kN	16 kHz										
LC-10TFH	100 kN	11 kHz	75	55	26	116	100	M8	82	110	100	3.4 kg
LC-20TFH	200 kN	8.6 kHz	95	70	36	156	130					

*1 Excluding cable

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

Dimensions



*Flat to flat positions are not specified.

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

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.5% RO
Hysteresis	Within ±0.5% RO
Repeatability	0.05% RO or less
Rated Output	1.5 mV/V ±0.2%

Environmental Characteristics

Safe Temperature	-10 to 150°C (Excluding connector)
Compensated Temperature	-10 to 150°C (Excluding connector)
Temperature Effect on Zero	Within ±0.005% RO/°C
Temperature Effect on Output	Within ±0.01%/°C

Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω ±0.5%
Output Resistance	350 Ω ±0.5%
Cable	4-conductor (0.3 mm ²) fluoroplastic shielded cable, 5 mm diameter by 5 m long, terminated with a connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	200%
Natural Frequencies	See table below.
Weight	See table below.