

High Temp. Compression Load Cell



*TEDS-installed models are available. Inquiries are welcome.

High reliability & airtight structure
Selectable from a wide range of rated capacities.

Able to continuously operate at temperatures up to 150°C without any external cooling.

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.)

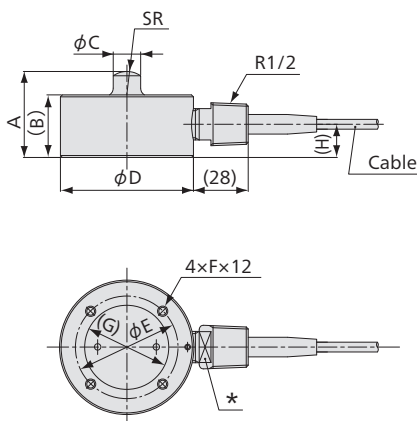
Mechanical Properties

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

Models	Rated Capacity	Natural Frequencies (Approx.)	Weight* (Approx.)
LC-50KFH	500 N	3.2 kHz	800 g
LC-100KFH	1 kN	5.1 kHz	
LC-200KFH	2 kN	7.2 kHz	
LC-500KFH	5 kN	11 kHz	
LC-1TFH	10 kN	17 kHz	
LC-2TFH	20 kN	21 kHz	2.0 kg
LC-5TFH	50 kN	16 kHz	
LC-10TFH	100 kN	11 kHz	
LC-20TFH	200 kN	8.6 kHz	

*Excluding cable

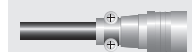
Dimensions



*Flat to flat positions are not specified.

Models	A	(B)	φC	φD	φE	F	(H)	(G)	SR
LC-50KFH	44	32	14	68	52	M5	17	42	12
LC-100KFH									
LC-200KFH									
LC-500KFH									
LC-1TFH									
LC-2TFH	60	45	18	96	80	M8	25	110	70
LC-5TFH									
LC-10TFH									
LC-20TFH									

Connector plug
PRC03-12A10-7M



Load Cells
(Load Transducers)

Outline

Compressive

Tensile

Tensile & compressive

Component

Special

Other