High/Low Temp. Tension Load Cell



LT-FH/FL

High Reliability Airtight Structure Selectable from a Wide Range of Rated Capacity.

●The mechanical stopper that activates at 500% overload

LT-FH series enables continuous operation under temperature as high as 150°C with no external cooling. LT-FL series enable operation at ultra-low temperature of -196°C.

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%

●LT-FL: -196 to 30°C ●500 N to 50 kN

OLT-FH: -10 to 150°C

Environmental Characteristics

Safe Temperature FH: -10 to 150°C (Excluding connector)

FL: -200 to 80°C (Excluding connector) **Compensated Temperature**

FH: -10 to 150°C (Excluding connector) FL: -196 to 30°C (Excluding connector)

Within ±0.005%RO/°C Temperature Effect on Zero Temperature Effect on Output Within ±0.01%/°C

Electrical Characteristics

Safe Ex	kcitation	20 V AC or DC			
Recommended Excitation		1 to 10 V AC or DC			
Input Resistance 350 Ω±0.5%		350 Ω±0.5%			
Output Resistance 350 Ω±0.5%		350 Ω±0.5%			
Cable	Cable 4-conductor (0.03 mm²) 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%
Ultimate Overload	500%
Natural Frequencies	See table below.
Weight	See table below.

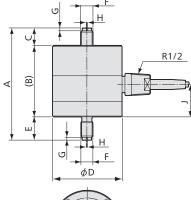
Optional Accessories (For details, see pages 2-72 to 2-76)

Rotating Attachment RJ Ball Joint TU Hook THD Shackle TRD

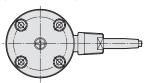
Models (FH)	Models (FL)	Rated Capacity	Natural Frequencies	Weight*
LT-50KFH	LT-50KFL	500 N	≈ 1.5 kHz	
LT-100KFH	LT-100KFL	1 kN	≈ 2.6 kHz	≈ 1.7 kg
LT-200KFH	LT-200KFL	2 kN	≈ 4.1 kHz	
LT-500KFH	LT-500KFL	5 kN	≈ 5.0 kHz	≈ 2.0 kg
LT-1TFH	LT-1TFL	10 kN	≈ 5.2 kHz	≈ 2.1 kg
LT-2TFH	LT-2TFL	20 kN	≈ 5.8 kHz	≈ 2.4 kg
LT-5TFH	LT-5TFL	50 kN	≈ 4.5 kHz	≈ 7.0 kg

*Excluding cable

Dimensions



Models		Α	(B)	С	φD	E	F	G	Н	J
LT-50KFH	LT-50KFL									
LT-100KFH	LT-100KFL	111	71	17		23	M12, P=1.75	3	1.6	32
LT-200KFH	LT-200KFL				68					
LT-500KFH	LT-500KFL	129	82	20	68	27	M14, P=2			
LT-1TFH	LT-1TFL	143	84	26		33	M18, P=1.5	5	3	36
LT-2TFH	LT-2TFL	168	89	35		44	M24, P=2			
LT-5TFH	LT-5TFL	236	126	55	96	55	M39, P=3	6	6	48





Physical quantity indication





















