



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
Sensor

LCH-F

High-accuracy Compression Load Cell



Highly accurate models

- Rated capacity: 100, 200 kN
- High accuracy (nonlinearity: within $\pm 0.02\%$ RO)
- Degree of protection: IP67

Compression load cells that support remote sensing* for highly accurate measurement even when extending cables.

*Use products compatible with remote sensing to use the remote-sensing function.

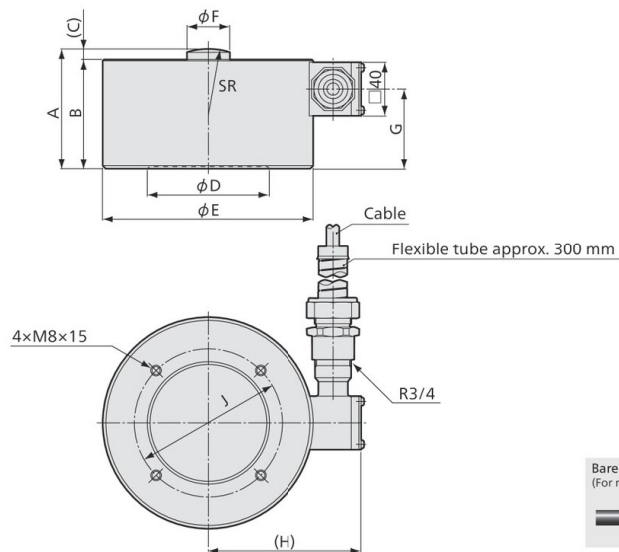
Models

Model	Rated Capacity	Natural Frequencies (Approx.)	A	B	(C)	ϕD	ϕE	ϕF	G	(H)	J	SR	Weight (Approx.)*1
LCH-10TF	100 kN	7.5 kHz	90	82	8	90	156	32	60	113	110	50	12 kg
LCH-20TF	200 kN	7.0 kHz	110	100	10	110	176	45	75	123	130	70	17 kg

*1 Excluding cable

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

Dimensions



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.02\%$ RO
Hysteresis	Within $\pm 0.02\%$ RO
Repeatability	0.02% RO or less
Rated Output	2 mV/V $\pm 0.1\%$

Environmental Characteristics

Safe Temperature	-35 to 80°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.0015\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.001\%$ /°C

Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω $\pm 0.5\%$
Output Resistance	350 Ω $\pm 0.5\%$
Cable	6-conductor (0.5 mm ²) chloroprene shielded cable, 9.5 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	200%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (JIS C 0920/IEC 60529)
Compliance	Directive 2011/65/EU, (EU)/2015/863 (10 restricted substances) (RoHS)

■ Optional Accessories Saddle CA