

LCTE-A

Thin Load Cell "Multi Force Sensor"



The integrated design enables excellent buffer.

- Rated capacity: 10 to 100 kN
- Endures lateral loads (50% of rated capacity)

Thin load cells with superior impact resistance and vibration resistance, that can be used with the upper/lower surface fixed*.

*An optional Rubber Attachment is required.

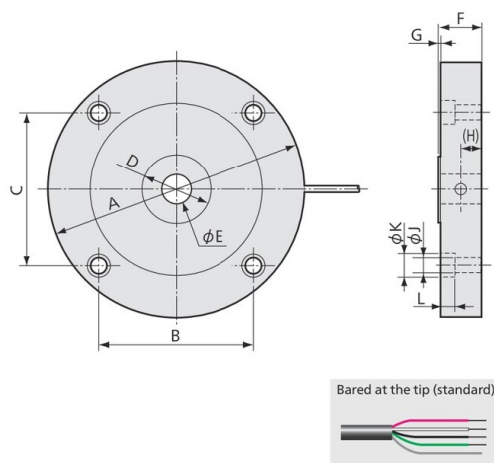
Models

Model	Rated Capacity	A	B	C	D	φE	F	G	(H)	φJ	φK	L	Weight (Approx.) ^{*1}
LCTE-A-10KN	10 kN	148	90	90	40	16	25		13	9	14	8.5	3.2 kg
LCTE-A-20KN	20 kN						31	1	15	11	18	11	5.1 kg
LCTE-A-30KN	30 kN	178	110	110	62		35		17	14	20	13	6.9 kg
LCTE-A-50KN	50 kN					20	37	3					7.2 kg
LCTE-A-100KN	100 kN	198	124	124	80								

*1 Excluding cable

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

Dimensions



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.05\%$ RO (100KN: Within $\pm 0.1\%$ RO)
Hysteresis	Within $\pm 0.05\%$ RO (100KN: Within $\pm 0.1\%$ RO)
Repeatability	0.03% RO or less (100KN: 0.05% RO or less)
Rated Output	2 mV/V $\pm 0.2\%$

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.003\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.003\%$ /°C

Electrical Characteristics

Safe Excitation	20 V DC
Recommended Excitation	1 to 10 V DC
Input Resistance	350 Ω $\pm 1.5\%$
Output Resistance	350 Ω $\pm 1.5\%$
Cable	4-conductor (0.3 mm ²) chloroprene shielded cable, 6 mm diameter by 5 m long (100KN: 10 m long), bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Ultimate Lateral Load	50% (Max. load which does not cause any mechanical damage)
Weight	See table below.
Material	Special steel

■ Optional Accessories Rubber attachment RA01

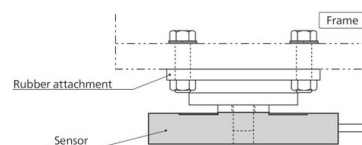
Junction box JB4LC-US

*No LCTE-A is used for any onboard measurement.

*No LCTE-A is used in an environment where it is frequently exposed to lateral loads.

*No LCTE-A is installed to any inclined or vertical surfaces.

Configuration Diagram



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Sensor



Strain Gage

Load Cell

Pressure
Sensor

Acceleration
Sensor

Torque
Sensor

Displacement
Sensor

Component
Force
Sensor

Automotive
Sensor

Civil
Engineering
Sensor