

LCTB-A

Thin Load Cell "Multi Force Sensor"



The integrated design enables excellent buffer.

- Rated capacity: 5 to 50 kN
- Endures lateral loads (50% of rated capacity)
- High accuracy (nonlinearity: within $\pm 0.03\%$ RO)

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.

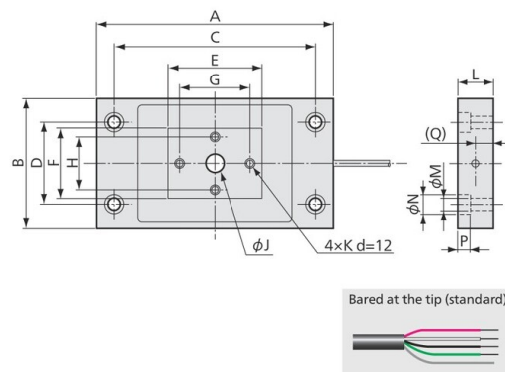
Models

Model	Rated Capacity	A	B	C	D	E	F	G	H	ϕJ	K	L	ϕM	ϕN	P	(Q)	Weight (Approx.)* ¹
LCTB-A-5KN	5 kN	200	110	170	70	80	60	60	45	16	M8	29	11	17	11	15	1.8 kg
LCTB-A-10KN	10 kN											35					2.3 kg
LCTB-A-20KN	20 kN											39					4.3 kg
LCTB-A-30KN	30 kN	260	150	220	90	90	80	60	60	20	M10	49	13	19	13	24	5.3 kg
LCTB-A-50KN	50 kN																

*1 Excluding cable

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

Dimensions



Specifications

Performance

Rated Capacity See table below.

Nonlinearity Within $\pm 0.03\%$ RO

Hysteresis Within $\pm 0.03\%$ RO

Repeatability 0.02% RO or less

Rated Output 1.5 mV/V $\pm 0.2\%$

Environmental Characteristics

Safe Temperature -20 to 70°C

Compensated Temperature -10 to 60°C

Temperature Effect on Zero Within $\pm 0.005\%$ RO/°C

Temperature Effect on Output Within $\pm 0.005\%$ /°C

Electrical Characteristics

Safe Excitation 20 V DC

Recommended Excitation 1 to 10 V DC

Input Resistance 350 $\Omega \pm 1.5\%$

Output Resistance 350 $\Omega \pm 1.5\%$

Cable 4-conductor (0.3 mm²) chloroprene shielded cable, 6 mm diameter by 5 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 Aluminum alloy

Optional Accessories

Stainless steel cover COV01-2T

Rubber attachment RA01

Base plate BP01-2T

Junction box JB4LC-US

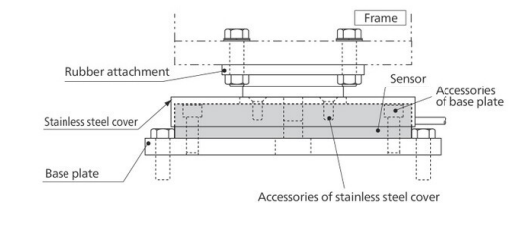
*No LCTB-A is used for any onboard measurement.

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

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

*For the optional accessories for 30KN, 50KN, please contact us.

Configuration Diagram



1
-70

Sensor



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor