LCTB-A

●Thin ●5 kN to 50 kN

Thin Load Cell "Multi Force Sensor"



Advanced Thin Design 1/2 to 1/3 height to the Conventional one More Applications are possible

- Optional dedicated rubber attachment enables fixing the top and bottom with bolts, thereby making it possible to design the system with no tension rod or stay rod used.
- Safety factor is 3 to 5 times higher than conventional type. Endures lateral loads up to 20% of the rated capacity.
- Rubber attachment attenuates impact energy and lessens the effects of thermal expansion of system and the moment of fixed section.
- Rubber attachment enables easy installation without concern for parallelism.
- Varieties of accuracies and output signals are available, enabling configuration of the most suitable system for each application.
- Combination instruments such as amplifiers are easily connected since the wirings are the same as conventional load cells.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.03% RO
Hysteresis	Within ±0.03% RO
Repeatability	0.02% RO or less
Rated Output	1.5 mV/V ±0.2%

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within ±0.005% RO/°C
Temperature Effect on Output	Within ±0.005%/°C

Electrical Characteristics

Safe Excitation	20 V DC						
Recommended Excitation	1 to 10 V DC						
Input Resistance	350 Ω±1.5%						
Output Resistance	350 Ω±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 cor	nnected to the case.)						

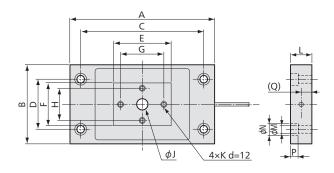
Mechanical Properties

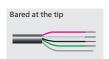
Safe Overloads	150%
Ultimate Lateral Load	50% (Max load which does not cause any
	mechanical damage)
Weight	See table below.
Materials	Aluminum alloy

Precautions

- 1. No LCTB-A is used for any onboard measurement
- 2. No LCTB-A is used in an environment where it is frequently exposed to lateral loads.
- 3. No LCTB-A is installed to any inclined or vertical surfaces.

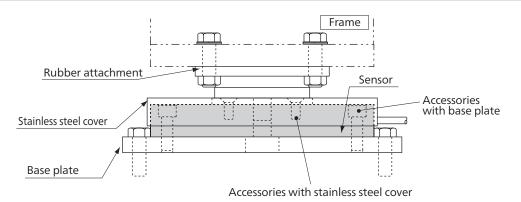
Dimensions





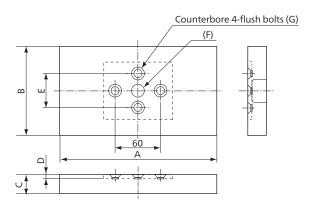
Models	Rated Capacity	Α	В	С	D	E	F	G	Н	φJ	К	L	φM	φN	Р	(Q)	Weight*				
LCTB-A-5KN	5 kN											29				1 5	1 0 kg				
LCTB-A-10KN	10 kN	200	110	170	70	80	60	60	45	16	M8	23	11	17	11	13	≈ 1.8 kg				
LCTB-A-20KN	20 kN														35				16.5	≈ 2.3 kg	
LCTB-A-30KN	30 kN	260	150	220	00	90	90	60	60	20	M10	39	10	19	17	19	≈ 4.3 kg				
LCTB-A-50KN	50 kN	260	150	150	150	150	150	220	220 90	90 90	80	60	00	20	IVITO	49	15	19	13	24	≈ 5.3 kg

*Excluding cable



Applicable Accessories

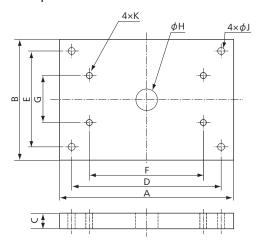
Models	Stainless Steel Covers	Rubber Attachments	Base Plates		
LCTB-A-5KN					
LCTB-A-10KN	COV01-2T	RA01-2T	BP01-2T		
LCTB-A-20KN					
LCTB-A-30KN		RA01-5T			
LCTB-A-50KN		KAU1-51			



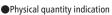
Stainless Steel Cover

Models	Α	В	С	D	E	(F)	G	Weight
COV01-2T	206	116	25	5.5	45	18	M8	≈ 400 g
COV01-5T	270	160	35	9.5	60	22	M10	≈ 900 g

Base plate



Load Cell Models	Base plate Models	Α	В	С	D	E	F	G	φн	φЈ	К
LCTB-A-5KN											
LCTB-A-10KN	BP01-2T	250	250	14	220	138	170	70	30	13	M10
LCTB-A-20KN											



● Static measurement ● Dynamic measurement

Data Logger UCAM-60B

Strain Amplifier DPM-900 Series Universal Recorde







