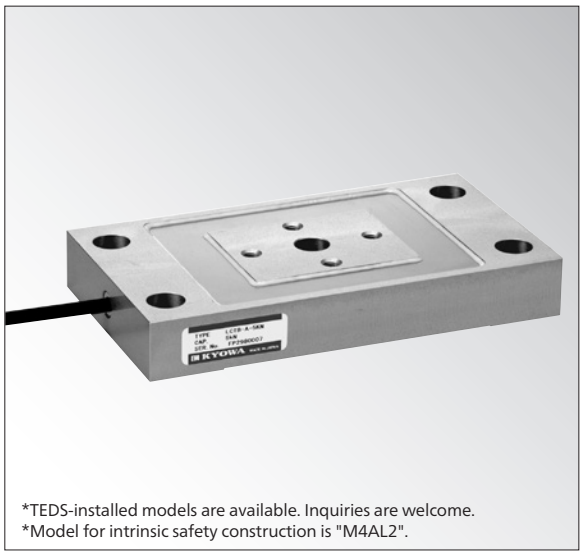
LCTB-A

●Thin ●5 to 50 kN

Thin Load Cell "Multi Force Sensor"



*TEDS-installed models are available. Inquiries are welcome.
*Model for intrinsic safety construction is "M4AL2".

Advanced thin design 1/2 to 1/3 height to the conventional one

- ●1/2 to 1/3 height to the conventional one enables wide application.
- ●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

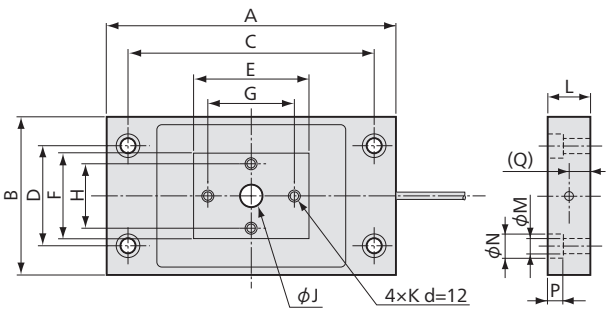
Safe Excitation	20 VDC
Recommended Excitation	1 to 10 VDC
Input Resistance	350 Ω ±1.5%
Output Resistance	350 Ω ±1.5%
Cable	4-conductor (0.3 mm²) chloroprene shielded cable,
	6 mm diameter by 5 m long, bared at the tip
	(Shield wire is not connected to the case.)

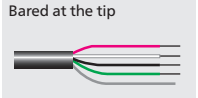
Mechanical Properties

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

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

■Dimensions

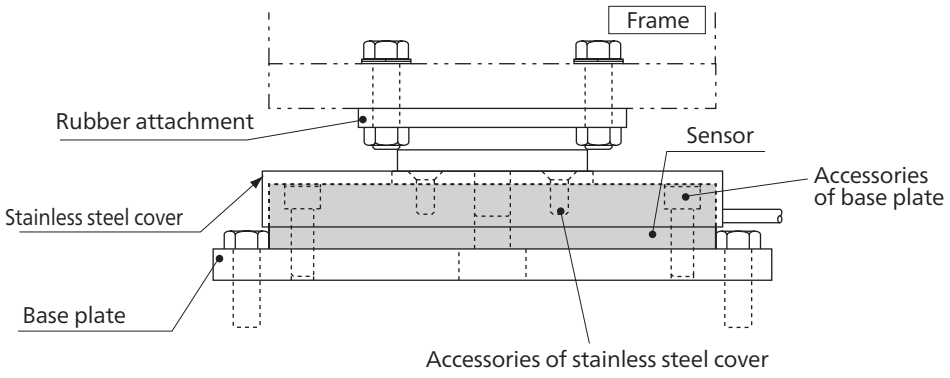




Models	Rated Capacity	A	B	C	D	E	F	G	H	ϕJ	K	L	ϕM	ϕN	P	(Q)	Weight* (Approx.)
LCTB-A-5KN	5 kN	200	110	170	70	80	60	60	45	16	M8	29	11	17	11	15	1.8 kg
LCTB-A-10KN	10 kN																
LCTB-A-20KN	20 kN											35				16.5	2.3 kg
LCTB-A-30KN	30 kN	260	150	220	90	90	80	60	60	20	M10	39	13	19	13	19	4.3 kg
LCTB-A-50KN	50 kN											49				24	5.3 kg

*Excluding cable

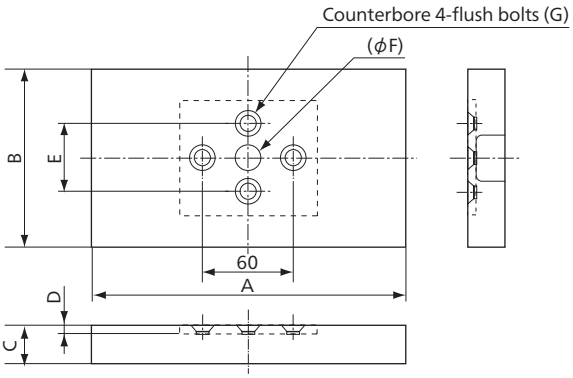
Optional Accessories



Applicable Accessories

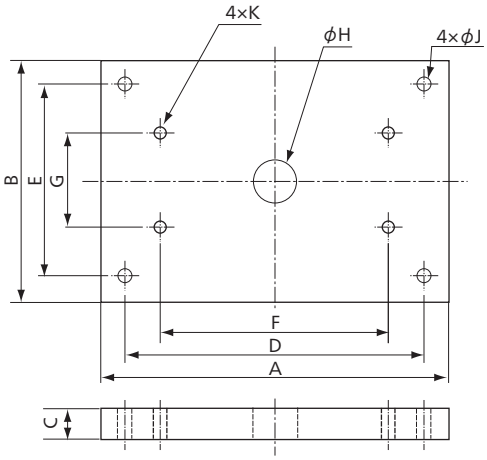
Models	Stainless Steel Covers	Rubber Attachments	Base Plates
LCTB-A-5KN	COV01-2T	RA01-2T	BP01-2T
LCTB-A-10KN			
LCTB-A-20KN			
LCTB-A-30KN	——	RA01-5T	——
LCTB-A-50KN			

●Stainless steel cover



Models	A	B	C	D	E	(ϕF)	ϕG	Weight (Approx.)
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	Base plate	A	B	C	D	E	F	G	ϕH	ϕJ	K
LCTB-A-5KN LCTB-A-10KN LCTB-A-20KN	BP01-2T	250	168	14	220	138	170	70	30	13	M10