

## Thin Load Cell "Multi Force Sensor"

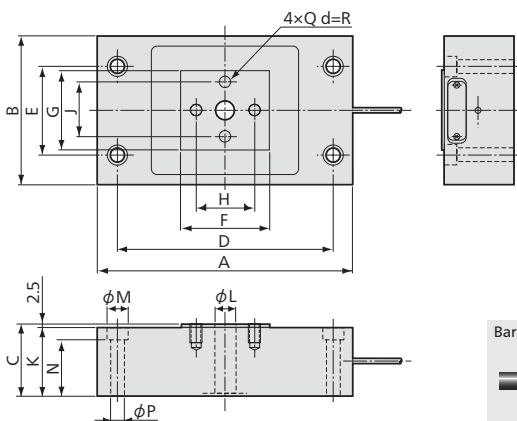


\*TEDS-installed models are available. Inquiries are welcome.

### 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.

#### ■ Dimensions



Models	Rated Capacity	A	B	C	D	E	F	G	H	J	K	φL	φM	N	φP	Q	R	Weight*
LCTD-A-100KN	100 kN	260	150	74	220	90	90	80	60	56	71.5	20	20	58.5	14	M12	18.5	≈ 18 kg
LCTD-A-200KN	200 kN			93							90.5			73	18			
LCTD-A-300KN	300 kN	300	200	94	250	140	100	130	70	80	91.5	36	26	74		M16	28.5	≈ 33 kg

\*Excluding cable

#### 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	2 mV/V±0.2%

##### Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within ±0.003% RO/°C
Temperature Effect on Output	Within ±0.003%/°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 mm <sup>2</sup> ) chloroprene shielded cable, 7.6 mm diameter by 10 m long, bared at the tip (Shield wire is not connected to the case.)

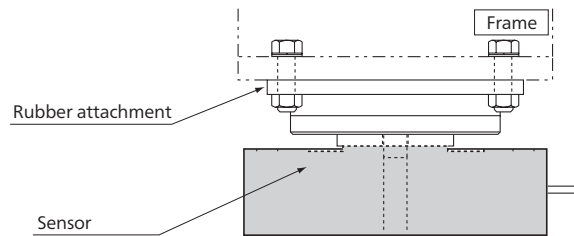
##### Mechanical Properties

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

##### Precautions

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

#### ■ Accessories



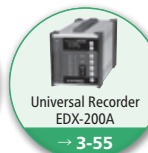
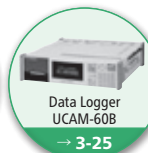
#### Applicable Accessories

Models	Rubber Attachments
LCTD-A-100KN	RA01-10T
LCTD-A-200KN	RA01-30T
LCTD-A-300KN	

For rubber attachments and base plates, see page 2-42.

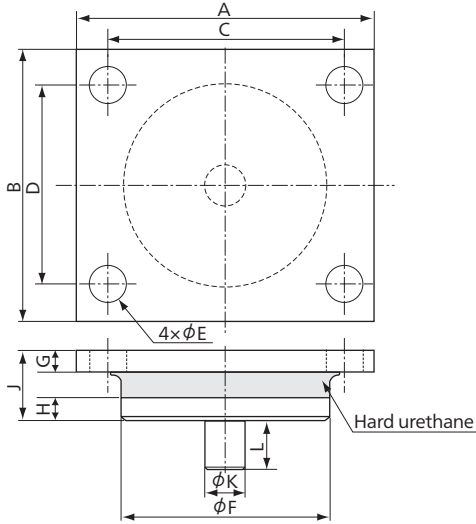
●Physical quantity indication

●Static measurement ●Dynamic measurement



Optional Accessories

● Rubber Attachments



Models	A	B	C	D	ϕE	ϕF	G	H	J	ϕK	L	Weight
RA01-2T	120	110	95	80	14	85	8.5	9.5	28	16	20	≈ 1.4 kg
RA01-5T	170	150	140	120	14	130	8.5	12.5	35	20	20	≈ 3.2 kg
RA01-10T	220	200	186	140	18	180	11.5	15.5	45	20	20	≈ 7.4 kg
RA01-30T	300	250	250	200	23	240	18.5	20.5	63	35	40	≈ 19.2 kg

● 4-channel Junction Box: JB4LC-US

Note: Adjustment through calibration with actual load is required.

