



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor

LCTD-A

Thin Load Cell "Multi Force Sensor"



The integrated design enables excellent buffer.

- Rated capacity: 100 to 300 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.

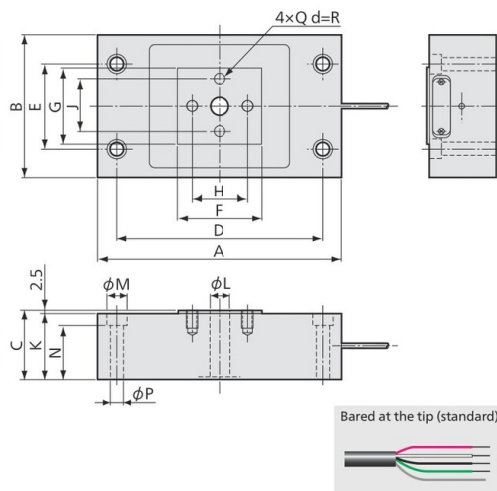
Models

Model	Rated Capacity	A	B	C	D	E	F	G	H	J	K	ϕL	ϕM	N	ϕP	Q	R	Weight (Approx.)*1
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	36	26	73	18			23 kg
LCTD-A-300KN	300 kN	300	200	94	250	140	100	130	70	80	91.5			74		M16	28.5	33 kg

*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 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/ $^{\circ}\text{C}$

Temperature Effect on Output Within $\pm 0.003\%$ / $^{\circ}\text{C}$

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,

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.

Material Special steel

- Optional Accessories Rubber attachment RA01
Junction box JB4LC-US

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

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

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

Configuration Diagram

