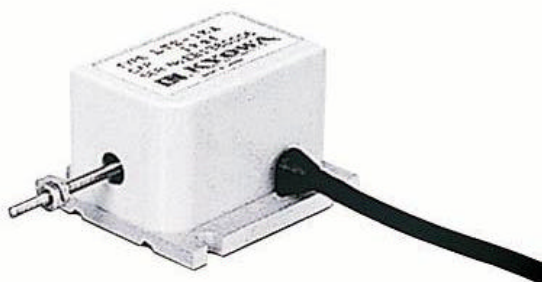


## Load cells for DKA series (Desktop force amplifier)

## LTS / LT series

## Tension load cells



LTS



LT series

## [Application]

- The load cells are used to measure force for DKA series.

## [Feature]

- They are small and light tension load cells capable of high accuracy measuring and easy to set up and handle.(LTS-0.5N)
- The load cells by their closed structure are highly resistant to the overload (Permissible overload : 200%, with mechanical stopper : triggered at 500%). They can be used regardless their surrounding environment. (LT series)

## Tension load cell

Model	LTS-0.5N	LT-500N to 20kN
Feature	For minute force	For medium to high force
Capacity	0.5N (50gf)	Refer to the specification table
Rated output	Over 1.5mV / V	1.5mV / V
Nonlinearity	Within +/- 0.5%RO	Within +/- 0.1%RO
Hysteresis	Within +/- 0.5%RO	Within +/- 0.1%RO
Recommended voltage (Permissible applied voltage)	1 to 2V AC or DC (6V AC or DC)	1 to 10V AC or DC (20V AC or DC)
Input/output resistance	120 ohm +/- 10%	350 ohm +/- 0.5%
Permissible over load	120%	200% (Mechanical stopper activated at 500%)
Operating temperature	0 to 60 degree Celsius	-10 to 70 degree Celsius
Sensing shaft diameter	M2	Refer to the specification table
Weight	Approx. 50g	Refer to the specification table
Cable	1m (with connector)	5m (with connector)
Dimension	W 55×D 34×H 23	Refer to the dimensional drawing

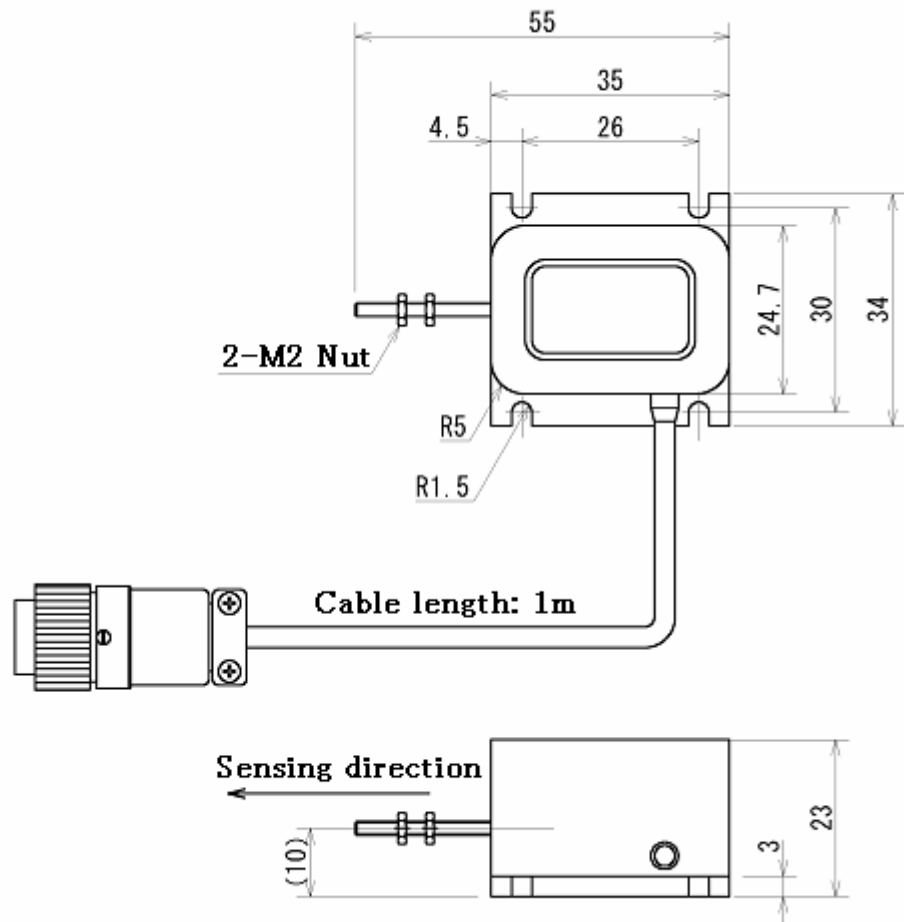
## [LTS / LT series Available models]

Model	Capacity (Reference values)	Permissible overload	Sensing shaft diameter	Weight
LTS-0.5N	0.5N (50gf)	120%	M2 P0.4	Approx.50g
LT-500N	500N (50kgf)	*Mechanical stopper triggered at 500%	M12 P1.75	Approx.2.3kg
LT-1000N	1000N (100gf)			
LT-2000N	2000N (200kgf)		M14 P2	Approx.2.6kg
LT-5000N	5000N (500kgf)		M18 P1.5	Approx.2.7kg
LT-10kN	10kN (1000kgf)		M24 P2	Approx.2.9kg
LT-20kN	20kN (2000kgf)			

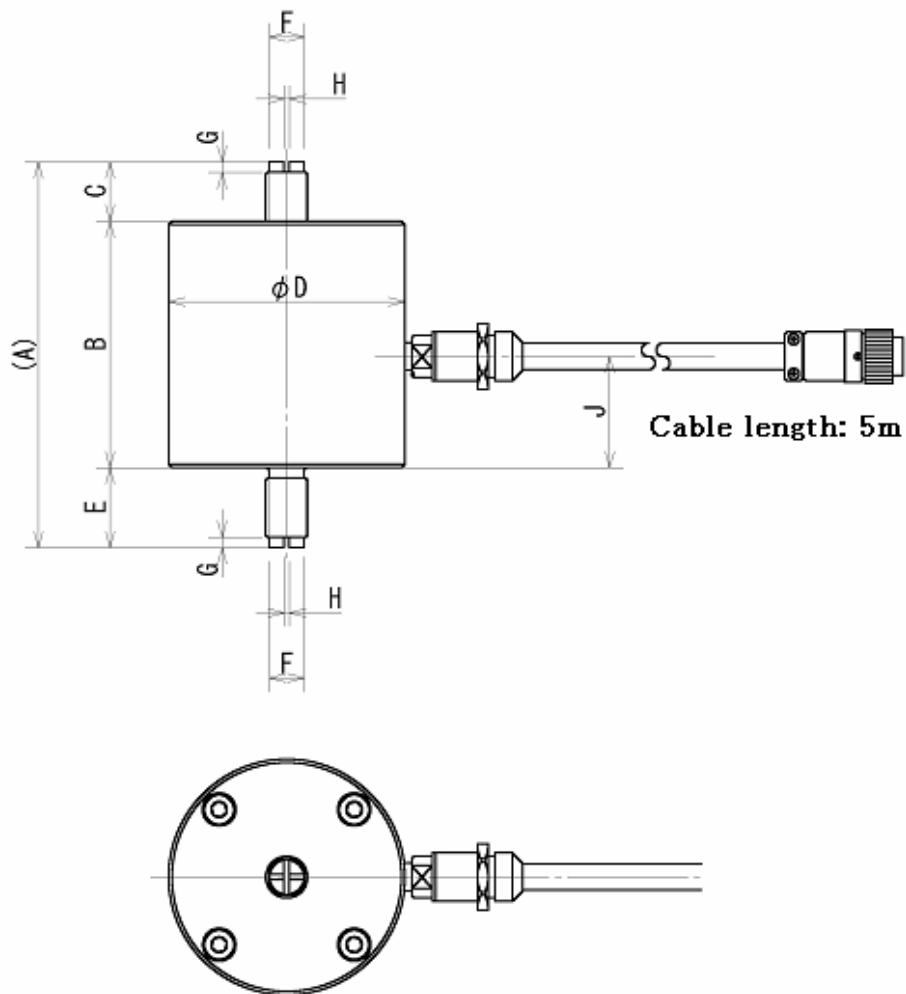
\* Please order Imada's desktop force amplifier DKA series (refer to the catalog) together with the load cell so that their combined calibration can be done when they are shipped.

\* Imada sells the load cells (with/ without connector) separately. Please contact to Imada for your inquiry.

[Dimensional drawing]  
LTS-0.5N



## LT series



Model	A	B	C	Diameter D	E	F	G	H	J
LT-500N	111	71	17	68	23	M12 P1.75	3	1.6	32
LT-1000N									
LT-2000N									
LT-5000N	129	82	20	68	27	M14 P2	5	3	36
LT-10kN	143	84	26	68	33	M18 P1.5	5	3	36
LT-20kN	168	89	35	68	44	M24 P2	5	3	36

## [Precaution]

- Please pay close attention for the installation of the load cells.
  - Never apply strong force or impact especially on the sensing direction.
  - Do not apply bending or torsion stress when setting up the sensing shaft to a measuring object.
- Do not use in the condition of rapid temperature changes, high temperature, high humidity, near water and dusty place.
- All information is subject to change without prior notice.