

LTA-C-S

Crane Load Cell

● For Cranes ● 20 to 500 kN



High Strength High Reliability & Stability Easy to Handle

These series of tension load cells are used as detectors for jib crane weighing systems and for general tension measurement.

To Ensure Safe Usage

- Install the load cell carefully to avoid applying tensile and impact force to the cable and prevent the load cell from receiving bending or twisting force.
- Prepare a safety device such as a link against accidental hazards so that it supports loads in case of a broken load cell.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Rated Output	Approx. 0.6 to 0.7 mV/V

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.05\%$ /°C

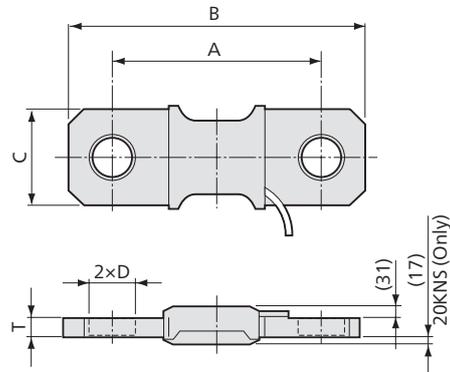
Electrical Characteristics

Safe Excitation	12 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 $\Omega \pm 5\%$
Output Resistance	350 $\Omega \pm 5\%$
Cable	4-conductor (0.75 mm ²) chloroprene shielded cable, 10 mm diameter by 10 m long, with crimp-style terminals (Shield wire is not connected to the case.)

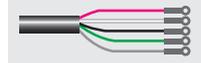
Mechanical Properties

Ultimate Overloads	Approx. 500%
Safe Overloads	150%
Weight	See table below (Excluding cable).

Dimensions



Crimp-style terminals



Models	Rated Capacity	A	B ^{±6}	C ^{±6}	D	T	Weight
LTA-C-20KNS	20 kN	310	410	90	φ45	14	≈ 5 kg
LTA-C-50KNS	50 kN	310	430	110	φ45	15	≈ 5.5 kg
LTA-C-100KNS	100 kN	330	470	126	φ60	30	≈ 11 kg
LTA-C-200KNS	200 kN	360	540	170	φ65	36	≈ 21 kg
LTA-C-300KNS	300 kN	400	610	195	φ75	47	≈ 35 kg
LTA-C-500KNS	500 kN	440	670	240	φ85	60	≈ 60 kg

● Physical quantity indication

● Dynamic measurement

LTA-C-S
Recommended
products for
combination

