

LCK-A

Thin Compression Load Cell

CE

1
-64

Sensor



Thin and highly reliable

- Rated capacity: 5 to 200 kN
- Degree of protection: IP67

Load cells with a thin design for installation as detection terminals for weighing systems. Suitable for conveyors, vehicles, cranes, hoppers, tanks and other applications where space (mainly height) is limited and a smaller sensing part is required.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.2\%$ RO (200kN: Within $\pm 0.5\%$ RO)
Hysteresis	Within $\pm 0.2\%$ RO (200kN: Within $\pm 0.5\%$ RO)
Repeatability	0.05% RO or less
Rated Output	2 mV/V $\pm 0.5\%$

Environmental Characteristics

Safe Temperature	-30 to 80°C
Compensated Temperature	-10 to 70°C
Temperature Effect on Zero	Within $\pm 0.007\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.005\%$ /°C

Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω $\pm 0.5\%$
Output Resistance	350 Ω $\pm 0.5\%$

Cable 4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (JIS C 0920/IEC 60529)
Compliance	Directive 2011/65/EU, (EU)/2015/863 (10 restricted substances) (RoHS)

■ Optional Accessories Saddle CA

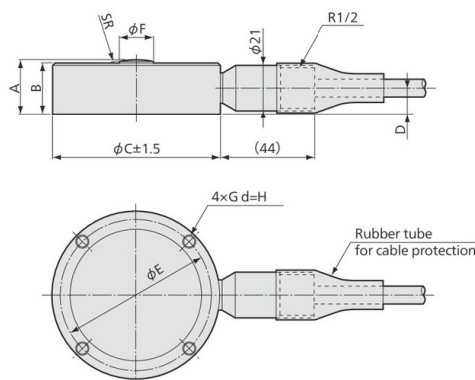
Models

Model	Rated Capacity	Natural Frequencies (Approx.)	A	B	ϕC	D	ϕE	ϕF	G	H	SR	Weight (Approx.)*1
LCK-A-5KN	5 kN	10.7 kHz	25	23.5	78	12	70	16	M5	8	50	700 g
LCK-A-10KN	10 kN	11.4 kHz										
LCK-A-20KN	20 kN	14.2 kHz										
LCK-A-50KN	50 kN	24.2 kHz	30	28	98	14.5	80	18	M8	12	70	1.5 kg
LCK-A-100KN	100 kN	14.8 kHz	35	33	108	17.5	90	25				2.2 kg
LCK-A-200KN	200 kN	12.6 kHz	50	45	118	25	100	35				3.5 kg

*1 Excluding cable

*TEDS-installed models are available. Please contact us.

Dimensions



Bared at the tip (standard)



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor