

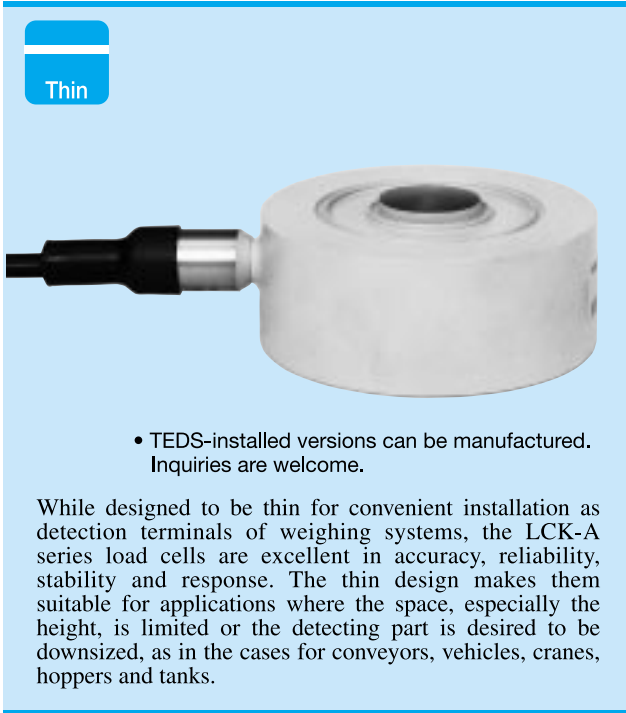
LCK-A

Thin Compression Load Cells

● 25 mm Thick (5 to 20 kN) ● 5 to 200 kN

2

TRANSDUCERS



Specifications

Performance

Rated Capacity: See table below.

Nonlinearity:

Within $\pm 0.2\%$ RO (LCK-A-5KN to 100KN)

Within $\pm 0.5\%$ RO (LCK-A-200KN)

Hysteresis:

Within $\pm 0.2\%$ RO (LCK-A-5KN to 100KN)

Within $\pm 0.5\%$ RO (LCK-A-200KN)

Repeatability:

0.05% RO or less

Rated Output:

2 mV/V (4000 $\mu\text{m/m}$) $\pm 0.5\%$

Environmental Characteristics

Safe Temperature Range: -30 to 80°C

Compensated Temperature Range: -10 to 70°C

Temperature Effect on Zero Balance: Within $\pm 0.007\%$ RO/ $^\circ\text{C}$

Temperature Effect on Output: Within $\pm 0.005\%$ / $^\circ\text{C}$

Electrical Characteristics

Safe Excitation Voltage: 20 VAC or DC

Recommended Excitation Voltage: 1 to 10 VAC or DC

Input Resistance: $350 \Omega \pm 0.5\%$

Output Resistance: $350 \Omega \pm 0.5\%$

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

Mechanical Properties

Safe Overload Rating: 150%

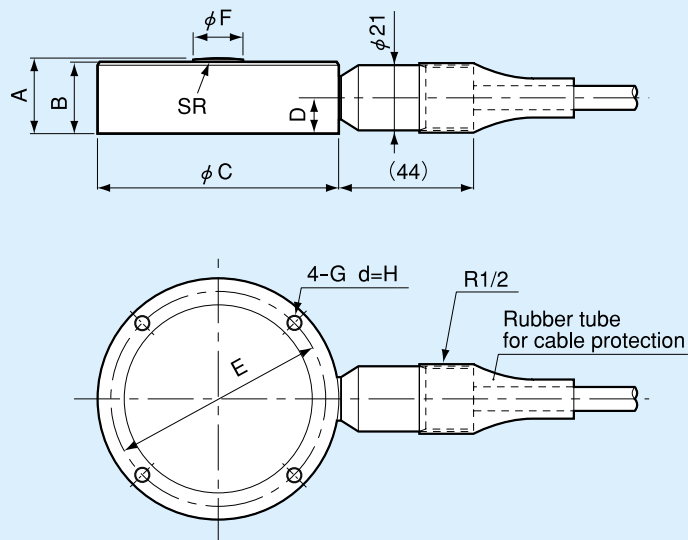
Natural Frequency: See table below.

Weight: See table below

Features

- Thin design
- High reliability
- Hermetically-sealed structure with inert gas filled in

Dimensions



Model	Rated Capacity	Natural Frequency (Approx.)	A	B	ϕC	D	E	ϕF	G	H	SR	Weight (Approx.)
LCK-A-5KN	5 kN	10.7 kHz	25	23.5	78	12	70	16	M5	8	50	900g
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	1.8 kg
LCK-A-100KN	100 kN	14.8 kHz	35	33	108	17.5	90	25	M8	12	70	2.5 kg
LCK-A-200KN	200 kN	12.6 kHz	50	45	118	25	100	35	M8	12	100	4.1 kg