LCK-A

●Thickness: 25 mm (5 kN to 20 kN) ●5 kN to 200 kN

Thin Compression Load Cell

*TEDS-installed models are available. Inquiries are welcome.

Thin
High Reliability, Hermetically-sealed Structure with Inert Gas Filled in

The LCK-A series load cells have excellent accuracy, reliability, stability, and response. They also have a thin design for convenient installation as detection terminals of weighing systems. This thin design makes them suitable for applications such as conveyors, vehicles, cranes, hoppers, and tanks where the space, especially the height, is limited and the detecting part needs to be downsized.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO for 5 to 100 kN
	Within ±0.5% RO for 200 kN
Hysteresis	Within ±0.2% RO for 5 to 100 kN
	Within ±0.5% RO for 200 kN
Repeatability	0.05% RO or less
Rated Output	2 mV/V ±0.5%

Environmental Characteristics

Safe Temperature	-30 to 80°C
Compensated Temperature	-10 to 70°C
Temperature Effect on Zero	Within ±0.007% RO/°C
Temperature Effect on Output	Within ±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±0.5%
Output Resistance	350 Ω±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 the case.)

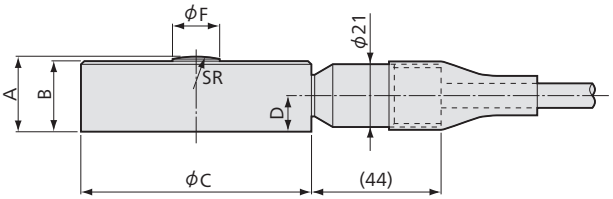
Mechanical Properties

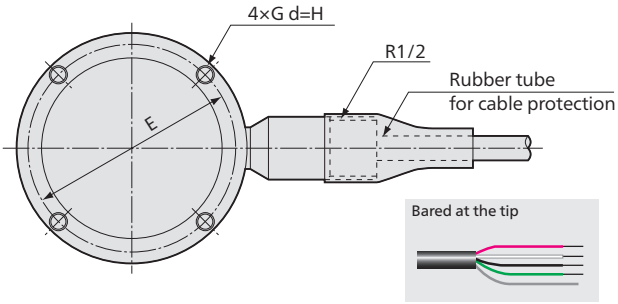
Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (IEC 60529)

Optional Accessories (For details, see pages 2-72 to 2-76)

Saddle CA-B

■Dimensions





Models	Rated Capacity	Natural Frequencies (Approx.)	A	B	ϕC	D	E	ϕF	G	H	SR	Weight *
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	M8	12	70	≈ 2.2 kg
LCK-A-200KN	200 kN	12.6 kHz	50	45	118	25	100	35	M8	12	100	≈ 3.5 kg

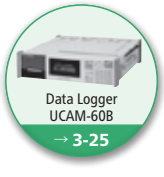
*Excluding cable

●Physical quantity indication ●Static measurement ●Dynamic measurement

LCK-A Recommended products for combination


Instrumentation Amplifier WGA-900A → 3-95


Instrumentation Amplifier WGA-680A → 3-97


Data Logger UCAM-60B → 3-25


Strain Amplifier DPM-900 Series → 3-5


Universal Recorder EDX-200A → 3-55


Universal Recorder EDX-100A → 3-63