Thin

High Reliabilit

Hermetically Sealed Structure with Inert Gas Filled in



While load cells in the LCK-A series are designed to be thin for convenient installation as detection terminals of weighing systems, they are excellent in every point; accuracy, reliability, stability, and response. The thin design makes them suitable for applications where the space, especially the height, is limited or the detecting part is desired to be downsized for measurement of force or weight applied to a conveyor, hopper or tank.

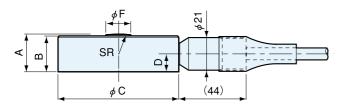
Specifications

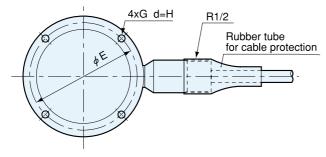
Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO (200KN: Within ±0.5% RO)
Hysteresis	Within ±0.2% RO (200KN: Within ±0.5% RO)
Repeatability	0.05% RO or less
Rated Output	2 mV/V (4000 μm/m) ±0.5%
Environmental Capab	pility
Safe Temp. Range	−30 to 80°C
Comp. Temp. Range	–10 to 70°C
Temp. Effect on Zero Bal.	Within ±0.007% RO/°C
Temp. Effect on Out.	Within ±0.005%/°C
Electrical Characteris	itics
Safe Excit. Voltage	20 V AC or DC
Recom. Excit. Voltage	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 dia. by 5 m long, bared at the tip
	(Shield wire is not connected to the mainframe.)

Mechanical Properties

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Safe Overload Rating	150%
Natural Frequency	Refer to table below.
Weight	Refer to table below.
Protection Rating	IP 67 (Watertight type conforming to JIS C 0920)

Dimensions

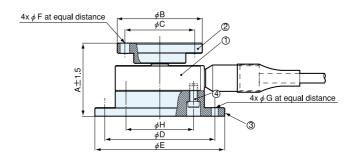




Model	Rated Capacity	Natural Frequency (App.)	Α	В	ϕ C	D	ϕ E	ϕ F	G	Н	R	Weight (App.)
LCK-A-5KN	5 kN	10.7 kHz										
LCK-A-10KN	10 kN	11.4 kHz	25	23.5	78	12	70	16	M5	8	50	900g
LCK-A-20KN	20 kN	14.2 kHz										
LCK-A-50KN	50 kN	24.2 kHz	30	28	98	14.5	80	18	M8	12	70	1.8 kg
LCK-A-100KN	100 kN	14.8 kHz	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

Dimensions with Accessories Mounted

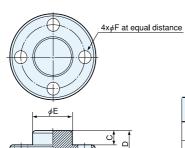
• In Combination with Saddle CA and Mount Base CF



Load Cell Proper	Saddle ②	Mount Base	Hexagon Socket Head Cap Screw 4	Α	φВ	φC	ϕ D	φΕ	φF	ϕ G	φН
LCK-A-5KN LCK-A-10KN LCK-A-20KN	CA-2B	CF-70D	4-M5 L=20	74	53	38	100	116	7	9	70
LC -A-50KN	CA-10B	CF-80D	4-M8 L=20	84	98	80	130	154	11	13	80
LC -A-100KN	CA-10B	CF-90D	4-M8 L=20	89	98	80	140	164	11	13	90
LCK-A-200KN	CA-50B	CF-100D	4-M8 L=25	118	118	100	150	174	11	13	100

Hexagon socket head cap screw is attached to the mount base for its connection to the load cell.

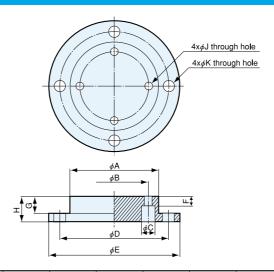
Dimensions of Saddle



φA φB

Model	φ A	φВ	С	D	φΕ	φF	Hexagon Socket Head Cap Screw	Weight (App.)
CA-2B	38	53	9	19	24	7	M6	200 g
CA-10B	80	98	12	24	60	11	M10	1 kg
CA-50B	100	118	13	28	80	11	M10	1.8 kg

Dimensions of Mount Base



Model	ϕ A	φΒ	ϕ C	ϕ D	φΕ	F	G	Н	ϕ J	ϕ K	Weight (App.)
CF-70D	84	70	10	100	116	13	20	30	5.5	9	
CF-80D	106	80	16	130	154	13	20	30	9	13	
CF-90D	116	90	16	140	164	13	20	30	9	13	
CF-100D	126	100	16	150	174	18	25	40	9	13	