

LCN-A

Small-Sized Compression Load Cells

● Compact, Stainless Steel Case ● 500 N to 20 kN



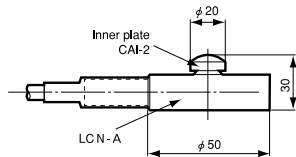
- TEDS-installed versions can be manufactured. Inquiries are welcome.

Compact and lightweight design facilitates installation into existing facilities. Excellent stability and reliability are ensured by the hermetically-sealed structure with inert gas filled in. Furthermore, the stainless steel (SUS 630) enclosure makes them widely usable as sensors for equipment requiring corrosion resistance.

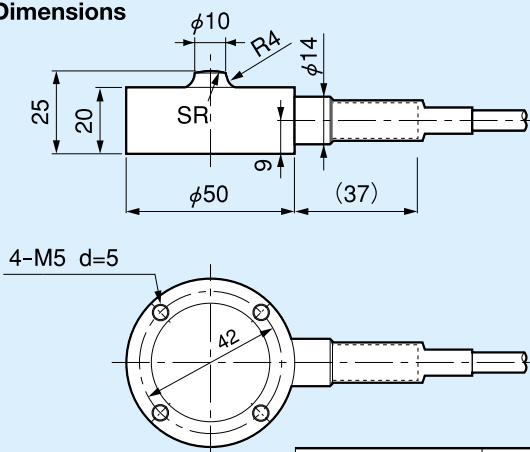
Model	Rated Capacity	Natural Frequency (Approx.)
LCN-A-500N	500 N	6.4 kHz
LCN-A-1KN	1 kN	5.3 kHz
LCN-A-2KN	2 kN	7.6 kHz
LCN-A-5KN	5 kN	13 kHz
LCN-A-10KN	10 kN	18 kHz
LCN-A-20KN	20 kN	24 kHz

Inner Plate CAI-2

Inner plate is intended to protect the load sensing part at the top of load cell. It prevents the sphere from being flattened due to frequent impact loads.



Dimensions



Model	SR
LCN-A-500N to 2KN	15
LCN-A-5 to 20KN	30

Features

- Compact
- Corrosion-resistant stainless steel enclosure
- Hermetically sealed structure with inert gas filled in

Specifications

Performance

Rated Capacity: See table at the left.
 Nonlinearity: Within $\pm 0.15\%$ RO
 Hysteresis: Within $\pm 0.1\%$ RO
 Repeatability: 0.05% RO or less
 Rated Output: 2 mV/V (4000 $\mu\text{m/m}$) $\pm 0.3\%$

Environmental Characteristics

Safe Temperature Range: -20 to 80°C
 Compensated Temperature Range: -10 to 70°C
 Temperature Effect on Zero Balance: Within $\pm 0.005\%$ RO/ $^\circ\text{C}$
 Temperature Effect on Output: Within $\pm 0.01\%$ / $^\circ\text{C}$

Electrical Characteristics

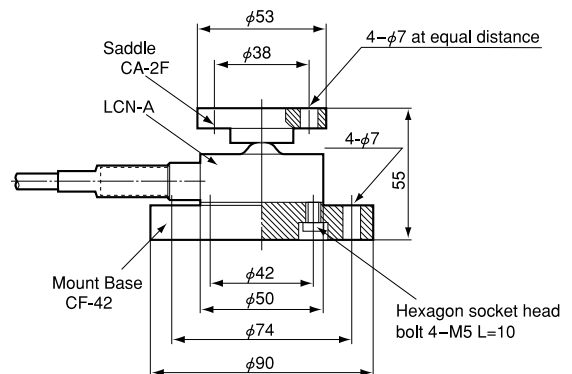
Safe Excitation Voltage: 20 VAC or DC
 Recommended Excitation Voltage: 1 to 12 VAC or DC
 Input Resistance: $350 \Omega \pm 0.5\%$
 Output Resistance: $350 \Omega \pm 0.5\%$
 Cable: 4-conductor (0.5 mm²) chloroprene shielded cable, 8.5 mm diameter by 3 m long, with press-fit terminal for 4 mm (Shield wire is not connected to mainframe.)

Mechanical Properties

Safe Overload Rating: 200%
 Natural Frequency: See table at the left.
 Weight: 220 g
 Material
 Main unit: SUS 630
 Bottom plate: SUS 304

Dimensions with Saddle and Mount Base Mounted

In Combination with Saddle CA and Mount Base CF



Hexagon socket head bolts to connect the load cell and mount base are attached to the mount base.

Saddle and Mount Base

	Saddle	Mount Base
Dedicated for LCN-A	CA-2F	CF-42
Compatible with other models	CA-2FM1	CF-42M1
	CA-2FM2	CF-42M2
Alternate use with LCF-A*	CA-2B	CF-42M3

*Used when replacing LCF-A with LCN-A