

LCR-B-S7

Tension Meter Load Cell

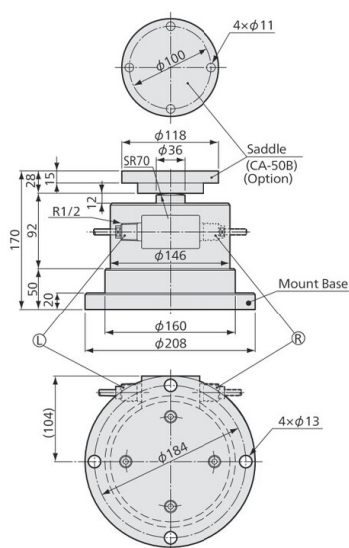


Excellent environmental resistance tension meter load cells

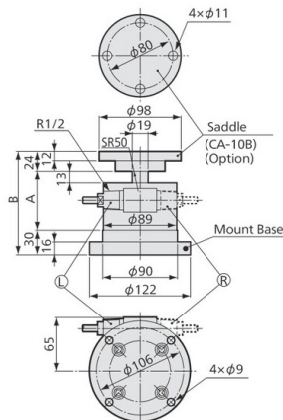
- Rated capacity: 5 to 100 kN
- Mechanical stopper (Ultimate Overloads 1000% (100KNS7: 400%))
- Cable direction selectable from either left or right

Load cells suitable for load measurement in environments where heat resistance, oil resistance, corrosion resistance, and a high safe overloads are required.

■ Dimensions



LCR-B-100KNS7



LCR-B-5 to 50KNS7

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.1\%$ RO (100KNS7: Within $\pm 0.2\%$ RO)
Hysteresis	Within $\pm 0.1\%$ RO (100KNS7: Within $\pm 0.2\%$ RO)
Repeatability	0.1% RO or less
Rated Output	1 mV/V $\pm 1\%$

Environmental Characteristics

Safe Temperature	-20 to 120°C
Compensated Temperature	-10 to 100°C
Temperature Effect on Zero	Within $\pm 0.005\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.005\%$ /°C

Electrical Characteristics

Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.75 mm ²) fluorlex shielded cable, approx. 8 mm diameter by 10 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Ultimate Overloads	1000% (100KNS7: 400%)
Safe Overloads	300% (100KNS7: 200%)
Material	Stainless steel (Excluding the mount base of 100KNS7)
Degree of Protection	IP64 (JIS C 0920/IEC 60529)
Weight	See table below.

*Specifications and design are subject to change without notice.

*Please contact us for information on product warranties.

■ Optional Accessories Saddle CA

■ Models

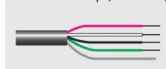
Model		Rated Capacity	A	B	Weight (Approx.)
Cable Direction					
Left Side	Right Side				
LCR-B-5KNS7L	LCR-B-5KNS7R	5 kN	57	111	4 kg
LCR-B-10KNS7L	LCR-B-10KNS7R	10 kN			
LCR-B-20KNS7L	LCR-B-20KNS7R	20 kN			
LCR-B-30KNS7L	LCR-B-30KNS7R	30 kN	70	124	4.5 kg
LCR-B-50KNS7L	LCR-B-50KNS7R	50 kN			
LCR-B-100KNS7L	LCR-B-100KNS7R	100 kN			
			— 19 kg		

*Excluding cable

To Ensure Safe Usage

Never disassemble the mount base, which has the stopper mechanism activating against overloads of 150% to 200%. Once it's removed, overload protection can't be guaranteed.

Bared at the tip (standard)



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Sensor



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor