

LCR-B-S7

Tension Meter Load Cell

● 5 to 100 kN

Excellent environmental resistance
tension meter load cells

- Safe overloads (Max. 300%)
- Mechanical stopper activating against overloads of 150% to 200%
- Hermetically sealed structure with inert gas filled in
- Corrosion resistant
- Cable direction selectable from either left or right

Designed for tension meters, LCR-B-S7 series load cells are suitable for load measurement under environments where heat resistance, oil resistance, corrosion resistance and high overload rating are required.

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

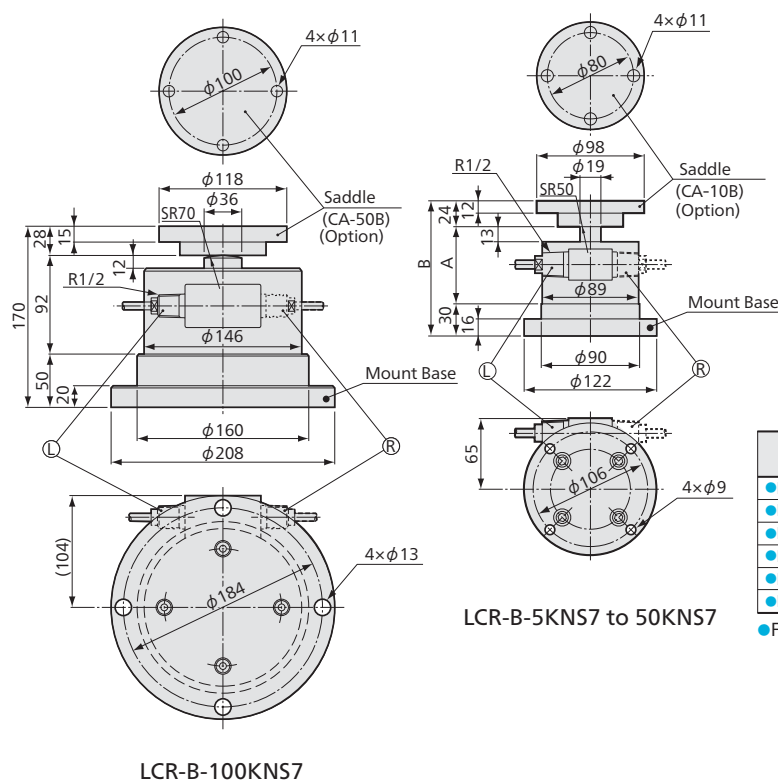
Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.75 mm ²) fluonlex shielded cable, approx. 8 mm diameter by 10 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

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

Optional Accessories Saddle CA

■ Dimensions



To Ensure Safe Usage

Never disassemble the mount base, which has the stopper mechanism activating against overloads of 150% to 200%. Once removed, overload protection is not guaranteed.

Models	Rated Capacity	A	B	Weight (Approx.)*
● LCR-B-5KNS7(L, R)	5 kN	57	111	4 kg
● LCR-B-10KNS7(L, R)	10 kN			
● LCR-B-20KNS7(L, R)	20 kN			
● LCR-B-30KNS7(L)	30 kN	70	124	4.5 kg
● LCR-B-50KNS7(L, R)	50 kN			
● LCR-B-100KNS7(L, R)	100 kN	See drawing left.		19 kg

● For delivery date, please contact us. *Excluding cable

Bared at the tip

