# **Tension Meter Load Cell**



# **Excellent Environmental Resistance Tension Meter Load Cells**

- •High safe overload rating of 300% max.
- Mechanical stopper activating against overloads of 150% to 200%
- Hermetically sealed structure with inert gas filled in
- Highly reliable structure (IP64)
- 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 ±0.1% RO for 5 to 50 kN
	Within ±0.2% RO for 100 kN
Hysteresis	Within ±0.1% RO for 5 to 50 kN
	Within ±0.2% RO for 100 kN
Repeatability	0.1% RO or less
Rated Output	1 mV/V ±1%

### **Environmental Characteristics**

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

### **Electrical Characteristics**

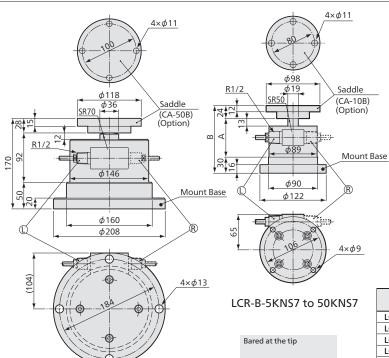
Safe Excitation	15 V AC or DC		
<b>Recommended Excitation</b>	1 to 10 V AC or DC		
Input Resistance	350 Ω±1%		
Output Resistance	350 Ω±1%		
Cable 4-conductor (0.75 mr	m²) fluonlex shielded cable, 8 mm diameter by		
10 m long, bared at th	e tip (Shield wire is not connected to the case.)		

#### **Mechanical Properties**

Ultimate Overload Rating	1000% (400% for 100KNS7)
Safe Overloads	300% (200% for 100KNS7)
Materials Stainless steel (E	xcluding the mount base of 100 & 100KNS7)
Degree of Protection	IP64 (IEC 60529)
Weight	See table below (Excluding cable).

Optional Accessories Saddle CA-B

#### Dimensions



The saddle is an optional accessory

# 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	Α	В	Weight
LCR-B-5KNS7(L, R)	5 kN	57	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 lower left.		≈ 19 kg





LCR-B-100KNS7









