



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
Sensor

LTR-S-SA1

One-end Revolving Tension Load Cell



For tractive force or rope tension measurement

- Rated capacity: 20 to 50 kN

Load cells suitable for measurement of the tensile force of ropes, etc.

Since the hook at one end revolves together with the rope which may revolve due to twisting, easy installation and handling are ensured.

Specifications

Performance

Rated Capacity See table below.

Nonlinearity Within $\pm 0.5\%$ RO

Hysteresis Within $\pm 0.5\%$ RO

Rated Output Approx. 1 mV/V

Environmental Characteristics

Safe Temperature -20 to 70°C

Compensated Temperature -10 to 60°C

Temperature Effect on Zero Within $\pm 0.05\%$ RO/ $^{\circ}\text{C}$

Temperature Effect on Output Within $\pm 0.05\%$ / $^{\circ}\text{C}$

Electrical Characteristics

Safe Excitation 12 V AC or DC

Recommended Excitation 1 to 5 V AC or DC

Input Resistance $350\ \Omega \pm 2\%$

Output Resistance $350\ \Omega \pm 2\%$

Cable 4-conductor ($0.3\ \text{mm}^2$) chloroprene shielded cable, 7.6 mm diameter
by 5 m long, terminated with a connector plug PRC03-12A10-7M
(Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads 150%

Ultimate Overloads 200%

Weight Approx. 3.6 kg (Excluding cable)

*Specifications and design are subject to change without notice.

*Please contact us for information on product warranties.

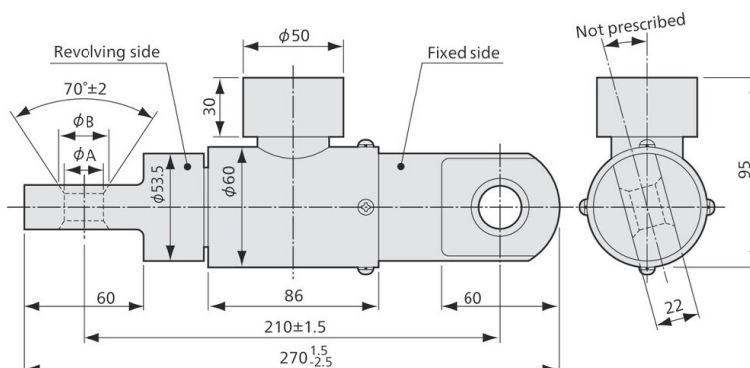
Models

Model	Rated Capacity	ϕA	ϕB
LTR-S-20KNSA1	20 kN	20	26
LTR-S-30KNSA1	30 kN	22	29
LTR-S-50KNSA1	50 kN	22	29

To Ensure Safe Usage

- When loaded, sliding friction prevents the revolving part from revolving.
- Do not use for measurement of hanging loads.

Dimensions



Connector plug (standard)
PRC03-12A10-7M

