



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
Sensor

LU-A



Small-capacity Tension/Compression Load Cell

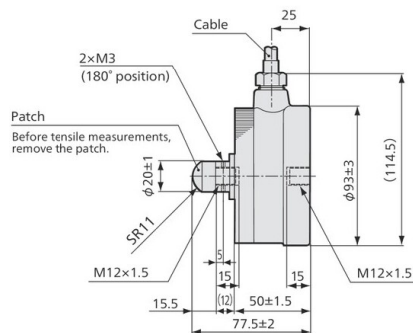


Small-capacity, high-accuracy tension/compression models

- Rated capacity: ± 50 to 200 N

Load cells that use a diaphragm using a straight beam for highly accurate measurement even at small capacities.

■ Dimensions



Specifications

Performance

Rated Capacity See table below.

Nonlinearity Within $\pm 0.3\%$ RO

Hysteresis Within $\pm 0.2\%$ RO

Repeatability 0.2% RO or less

Rated Output 1.5 mV/V $\pm 0.5\%$

Environmental Characteristics

Safe Temperature -20 to 75°C

Compensated Temperature -10 to 65°C

Temperature Effect on Zero Within $\pm 0.01\%$ RO/ $^{\circ}\text{C}$

Temperature Effect on Output Within $\pm 0.01\%$ / $^{\circ}\text{C}$

Electrical Characteristics

Safe Excitation 15 V AC or DC

Recommended Excitation 1 to 10 V AC or DC

Input Resistance $350\ \Omega \pm 0.5\%$

Output Resistance $350\ \Omega \pm 0.5\%$

Cable 4-conductor (0.3 mm²) chloroprene shielded cable, 7.5 mm diameter by 5 m long, terminated with a connector plug PRC03-12A10-7M (Shield wire is connected to the case.)

Mechanical Properties

Safe Overloads 120%

Natural Frequencies See table below.

Weight Approx. 2.3 kg (Excluding cable)

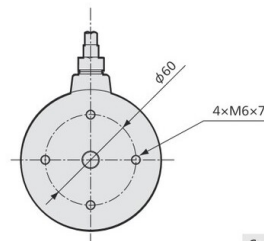
Compliance Directive 2011/65/EU, (EU)/2015/863 (10 restricted substances) (RoHS)

■ Optional Accessories Mount base CF

■ Models

Model	Rated Capacity	Natural Frequencies (Approx.)
LU-5KA	± 50 N	200 Hz
LU-10KA	± 100 N	330 Hz
LU-20KA	± 200 N	500 Hz

*TEDS-installed models are available. Please contact us.

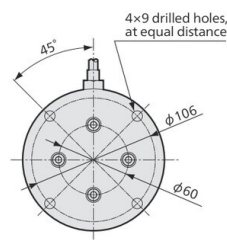
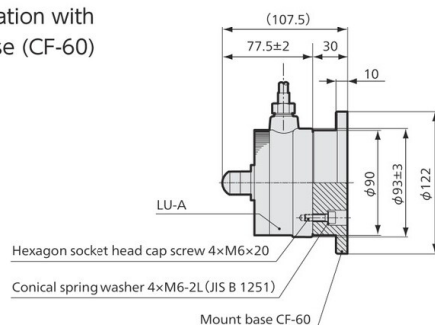


Connector plug (standard)
PRC03-12A10-7M



■ Configuration Diagram

- In combination with mount base (CF-60)



*The hexagon socket head cap screws and conical spring washers are standard accessories of mount base.