

LUR-A-SA1

Compact Tension/Compression Load Cell



Compact and lightweight tension/compression load cells

- Rated capacity: ± 50 N to 2 kN

Compact and lightweight tension/compression load cells that are easy to use. They are used in various fields ranging from production line device assembly to experiments.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	0.5 mV/V or more (50NSA1: Approx. 0.4 mV/V)

Environmental Characteristics

Safe Temperature	-10 to 70°C
Compensated Temperature	0 to 70°C
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C (50NSA1: Within $\pm 0.1\%$ RO/°C)
Temperature Effect on Output	Within $\pm 0.05\%$ °C (50NSA1: Within $\pm 0.1\%$ °C)

Electrical Characteristics

Safe Excitation	7 V AC or DC
Recommended Excitation	1 to 2 V AC or DC
Input Resistance	350 Ω $\pm 2\%$
Output Resistance	350 Ω $\pm 2\%$
Cable	4-conductor (0.05 mm ²) chloroprene shielded cable, 3 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	150%
Natural Frequencies	See table below.
Weight	Approx. 70 g (Excluding cable)

■ Standard Accessories Hexagon socket head setscrew M3, L=4

■ Optional Accessories Ball joint TU

Models

Model	Rated Capacity	Natural Frequencies (Approx.)
LUR-A-50NSA1	± 50 N	2 kHz
LUR-A-100NSA1	± 100 N	4 kHz
LUR-A-200NSA1	± 200 N	5 kHz
LUR-A-500NSA1	± 500 N	9 kHz
LUR-A-1KNSA1	± 1 kN	14 kHz
LUR-A-2KNSA1	± 2 kN	20 kHz

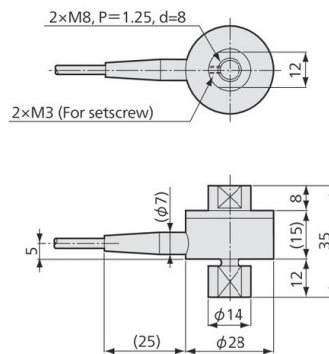
*High-temperature models (up to 150°C) are available. Please contact us.

*The connector plug at the cable tip may be replaced with R05-PB5M, when ordering, suffix "R" to the model number.
(Excluding LUR-A-50NSA1)

To Ensure Proper Usage

- Please contact KYOWA for combined use.
- Special accessories for tension load cells should be mounted to load cells at our factory.
- When using for tension loads, be sure to fix using the included hexagon socket head setscrews (M3, L=4).

■ Dimensions



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



Strain Gage

Load Cell

Pressure
Sensor

Acceleration
Sensor

Torque
Sensor

Displacement
Sensor

Component
Force
Sensor

Automotive
Sensor

Civil
Engineering
Sensor