LUR-A-SA1
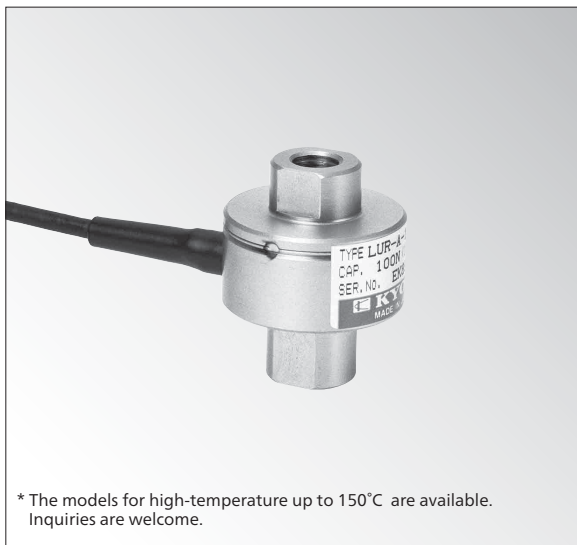
● φ28 mm ● 50 N to 2 kN

Compact Tension/Compression Load Cell

* The models for high-temperature up to 150°C are available. Inquiries are welcome.

Compact & lightweight Tension/Compression load cells

Compact & lightweight LUR-A-S1 series are easy to use tension/compression load cells. They are used in various fields ranging from production lines to experiments.

*The connector plug at the cable tip may be replaced with R05-PB5M, when ordering, suffix "-R " to the model number.

To Ensure Safe Usage
● Consult with our sales engineer when using in combination with special accessories.
● Special accessories for tensile loads should be mounted to the load cell at our factory.
● When using for tensile loads, be sure to fix the load cell with accessory hexagon socket head setscrews (M3, L=4).

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.5% RO
Hysteresis	Within ±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 ±0.05% RO/°C
	(50NSA1: Within ±0.1% RO/°C)
Temperature Effect on Output	Within ±0.05%/°C
	(50NSA1: Within ±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 ±2%
Output Resistance	350 Ω ±2%
Cable	4-conductor (0.05 mm²) 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

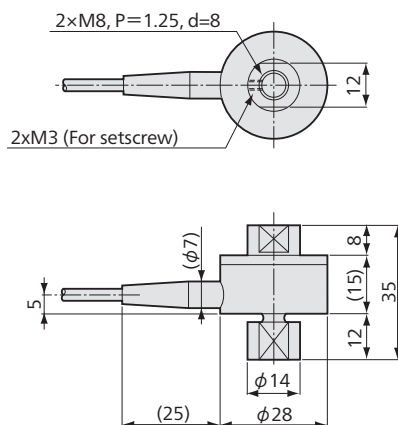|	
Safe Overloads	150%
Natural Frequencies	See table below.
Weight	Approx. 70 g (Excluding cable)
Standard Accessories	Hexagon socket head setscrew M3, L=4
Optional Accessories	Ball joint TU

Models	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

● For delivery date, please contact us.

■ **Dimensions**

2×M8, P=1.25, d=8

12

2xM3 (For setscrew)

(φ7)

5

8

(15)

35

12

φ14

(25)

φ28

Connector plug
PRC03-12A10-7M