



Strain Gage

Load Cell

Pressure  
SensorAcceleration  
SensorTorque  
SensorDisplacement  
SensorComponent  
Force  
SensorAutomotive  
SensorCivil  
Engineering  
Sensor

# LCR-G-SA2

## Small-sized Large-capacity Compression Load Cell



### Small load cells for cylinder

- Rated capacity: 10 to 50 kN
- Cylindrical

Compact load cells with a small outer diameter and a cable extending from the bottom, for use inside cylindrical objects.

#### Specifications

##### Performance

|                |                     |
|----------------|---------------------|
| Rated Capacity | See table below.    |
| Nonlinearity   | Within $\pm 1\%$ RO |
| Hysteresis     | Within $\pm 1\%$ RO |
| Rated Output   | 1 mV/V or more      |

##### Environmental Characteristics

|                              |                          |
|------------------------------|--------------------------|
| Safe Temperature             | -10 to 70°C              |
| Compensated Temperature      | 0 to 60°C                |
| Temperature Effect on Zero   | Within $\pm 0.1\%$ RO/°C |
| Temperature Effect on Output | Within $\pm 0.05\%$ /°C  |

##### Electrical Characteristics

|                        |                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe Excitation        | 7 V AC or DC                                                                                                                                                                                 |
| Recommended Excitation | 1 to 2 V AC or DC                                                                                                                                                                            |
| Input Resistance       | 350 $\Omega$ $\pm 5\%$                                                                                                                                                                       |
| Output Resistance      | 350 $\Omega$ $\pm 5\%$                                                                                                                                                                       |
| Cable                  | 4-conductor (0.05 mm <sup>2</sup> ) chloroprene shielded cable, 3 mm diameter<br>by 5 m long, terminated with a connector plug PRC03-12A10-7M<br>(Shield wire is not connected to the case.) |

##### Mechanical Properties

|                |                  |
|----------------|------------------|
| Safe Overloads | 120%             |
| Weight         | See table below. |
| Material       | Stainless steel  |

\*Specifications and design are subject to change without notice.

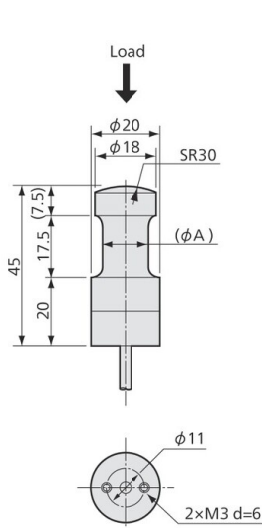
\*Please contact us for information on product warranties.

#### Models

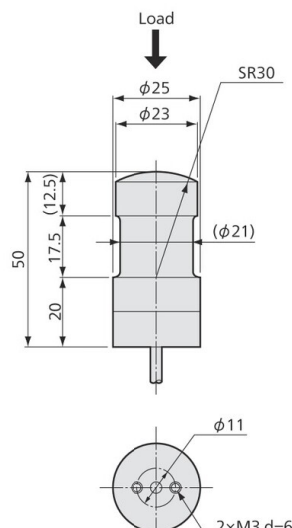
| Model         | Rated Capacity | ( $\phi A$ ) | Weight (Approx.)* |
|---------------|----------------|--------------|-------------------|
| LCR-G-10KNSA2 | 10 kN          | 11           | 100 g             |
| LCR-G-20KNSA2 | 20 kN          | 14           |                   |
| LCR-G-30KNSA2 | 30 kN          | 16.5         |                   |
| LCR-G-50KNSA2 | 50 kN          | —            | 130 g             |

\*Excluding cable

#### Dimensions



LCR-G-10 to 30KNSA2



LCR-G-50KNSA2

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

