

LMR-S-SA2

● $\phi 21$ mm, thickness: 10 mm ● 2 kN to 20 kN

Small-sized Compression Load Cell



Compact & Lightweight Moderate price Suitable for Load Distribution Measurement

Compact & lightweight LMR-S-SA2 series load cells are used by merely putting or bonding on the measurement point or setting in a hollow. Major applications include measurement of load distribution by using multiple units, load measurement in pipe making mills or where a measuring site or the weight of the load cell itself is limited.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO for 2 to 10 kN Within $\pm 2\%$ RO for 20 kN
Hysteresis	Within $\pm 1\%$ RO for 2 to 10 kN Within $\pm 2\%$ RO for 20 kN
Rated Output	1 mV/V or more

Environmental Characteristics

Safe Temperature	-10 to 60°C
Compensated Temperature	0 to 50°C
Temperature Effect on Zero	Within $\pm 0.05\%$ 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 $\Omega \pm 2\%$
Output Resistance	350 $\Omega \pm 2\%$
Cable	4-conductor (0.035 mm ²) vinyl shielded cable, 1.7 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to the case.)

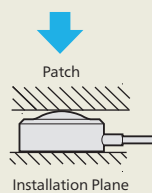
Mechanical Properties

Safe Overloads	120%
Natural Frequencies	Approx. 50 kHz
Weight	Approx. 25 g (Excluding cable)
Materials	Stainless steel

Models	Rated Capacity
LMR-S-2KNSA2	2 kN
LMR-S-5KNSA2	5 kN
LMR-S-10KNSA2	10 kN
LMR-S-20KNSA2	20 kN

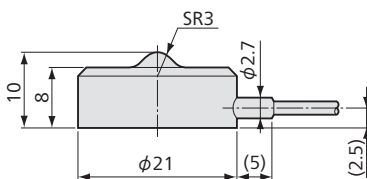
*Users should be cautioned that operating conditions may adversely affect the stated specifications.

To Ensure Safe Usage

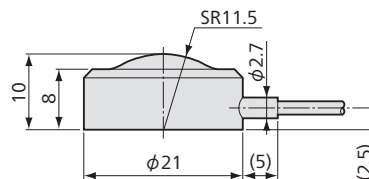


Compact large capacity load cells result in high surface pressure on the mounting surfaces under rated load. For the patch & installation plane material, use HRC40 to 44. Smoothness of mounting surfaces both patch and installation plane as smooth as Rz2.5 or so is recommended.

Dimensions

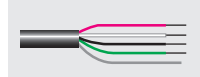


LMR-S-2KNSA2



LMR-S-5KNSA2 to 20KNSA2

Bared at the tip



● Physical quantity indication

● Static measurement ● Dynamic measurement

