LMR-S-SA2

Small-sized Compression Load Cell

CE

Compact, high capacity: Ideal for load distribution measurement

●**Rated capacity: 2 to 20 kN**

Compact and lightweight load cells that can be used by adhering it, fitting it into a recess. Major applications include measurement of load distribution by using multiple units, load measurement in pipe-making mills.

Specifications

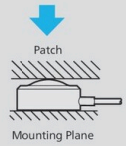
Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±1% RO (20KNSA2: Within ±2% RO)
Hysteresis	Within ±1% RO (20KNSA2: Within ±2% RO)
Rated Output	1 mV/V or more
Environmental Characteristics	
Safe Temperature	−10 to 60℃
Compensated Temperature	0 to 50℃
Temperature Effect on Zero	Within ±0.05% RO/℃
Temperature Effect on Output	Within ±0.05%/℃
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 (0.035 mm²) 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)
Material	Stainless steel
Compliance	Directive 2011/65/EU, (EU)/2015/863 (10 restricted substances) (RoHS)

■**Models**

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

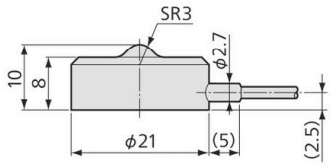
*TEDS-installed models are available. Please contact us.
*High-temperature models (up to 150℃) are available. Please contact us.

To Ensure Proper Usage

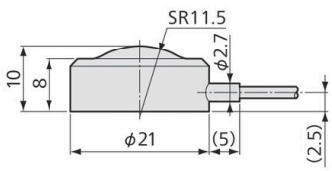


This device is a compact large capacity load cell and will result in a higher surface pressure on the mounting surface under the rated load.
For the mounting surface, use HRC40 to 44 metal.
It is recommended that the mounting surface and the patch be installed on a flat surface of about Rz 2.5 without any unevenness.

■ **Dimensions**



LMR-S-2KNSA2



LMR-S-5 to 20KNSA2