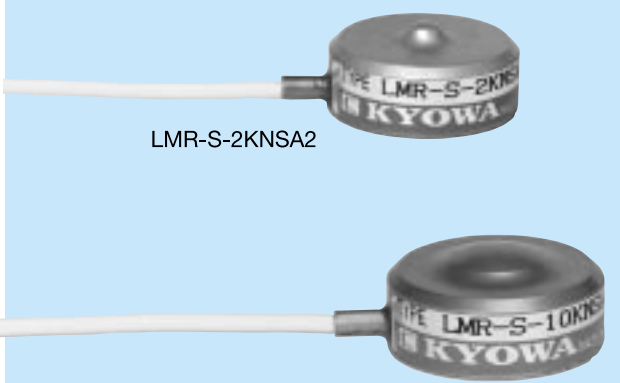


LMR-S-SA2 Small-Sized Compression Load Cells

● 21 mm ϕ , 10 mm Thick ● 2 to 20 kN



LMR-S-2KNSA2

LMR-S-5 to 20KNSA2

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

Features

- Compact
- Lightweight
- Low price
- Suitable for load distribution measurement

Specifications

Performance

- Rated Capacity:** See table below.
- Nonlinearity:**
 - Within $\pm 1\%$ RO (LMR-S-2KNSA2 to 10KNSA2)
 - Within $\pm 2\%$ RO (LMR-S-20KNSA2)
- Hysteresis:**
 - Within $\pm 1\%$ RO (LMR-S-2KNSA2 to 10KNSA2)
 - Within $\pm 2\%$ RO (LMR-S-20KNSA2)

- Repeatability:** 1% RO or less
- Rated Output:** 1 mV/V (2000 μ m/m) or more

Environmental Characteristics

- Safe Temperature Range:** -10 to 60°C
- Compensated Temperature Range:** 0 to 50°C
- Temperature Effect on Zero Balance:** Within $\pm 0.05\%$ RO/ $^{\circ}\text{C}$
- Temperature Effect on Output:** Within $\pm 0.05\%$ / $^{\circ}\text{C}$

Electrical Characteristics

- Safe Excitation Voltage:** 7 VAC or DC
- Recommended Excitation Voltage:** 1 to 2 VAC or DC
- Input Resistance:** $350 \Omega \pm 2\%$
- Output Resistance:** $350 \Omega \pm 2\%$
- Cable:** Piano wire-reinforced heat-resistant vinyl shielded cable of 1.8-mm diameter by 2 mm long, 4-conductor (0.2 mm² polyurethane-coated single wire), bared at the tip (Shield wire is connected to mainframe.)

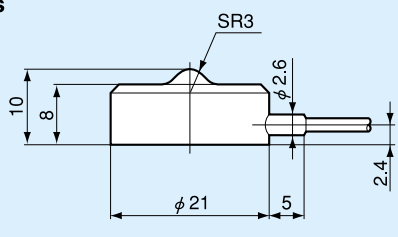
Mechanical Properties

- Safe Overload Rating:** 120%
- Natural Frequency:** See table below.
- Weight:** See table below
- Material:** Stainless steel

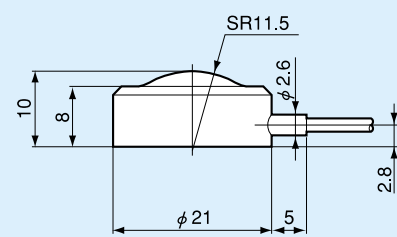
Model	Rated Capacity	Natural Frequency (Approx.)	Weight (Approx.)
LMR-S-2KNSA2	2 kN	50 kHz	25 g
LMR-S-5KNSA2	5 kN		
LMR-S-10KNSA2	10 kN		
LMR-S-20KNSA2	20 kN		

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

Dimensions



LMR-S-2KNSA2



LMR-S-5 to 20KNSA2