□Model List

Cable 1000 mm	GSS-4SA
Cable 2740 mm	GSS-4SC

Application

- Monitoring of the impact destruction of vending machines and game consoles
- Intrusion detection sensor of the house
- Anti-theft of a motor vehicle
- Security of shop windows
- Detection of vibration to industrial equipment

Characteristics

- The impact pickup is not attached using adhesive material but is held on both sides by an elastic structure. Therefore, the frequency characteristics have been greatly improved compared to similar products from competitors.
- Perfect to monitor hits and damage to game machines, vending machines, etc.
- Outputs only the impact voltage to adapt to a wide range of applications.
- Outputs a voltage proportional to the impact value.

Rating / Performance

Model	GSS-4SA	GSS-4SC
Output Voltage	44 mVrms ±20 % (25 °C, 2G-100Hz, and put to 20MΩ load)	42 mVrms ±20 % (25 °C, 2G-100Hz, and put to 20MΩ load)
Electrostatic Capacity	10 nF ±30 %	
Operating Frequency Range	10 Hz to 1 kHz	
Operating Temperature Range	-20 to 60 °C (-20 to 70 °C during storage) (Without dew condensation or freezing)	
Operating Humidity Range	70% RH or less (85% RH or less during storage) (Without dew condensation)	
Impact Characteristics	3 sine wave impacts of 100 G in acceleration on each X, Y, Z direction, after applying the impacts the output voltage is ±15 % or less of the initial value	
Vibration Resistance Characteristics	2 hours in each X, Y, Z direction at a frequency of 10 to 55 Hz and with a total amplitude of 1.5 mm, after applying the oscillation, the output voltage is ±15 % or less of the initial value	
Insulation Resistance	20 MΩ or more measured with an ohmmeter at 500 V DC	
Withstand Voltage	1 min at 500 V AC	
Protection Rating	IP50	
Case Material	Modified Poly Phenylene Ether , Black , Oil resistance	
Cable	ø0.2, 1-core shielded wire, Wire color : Black	
	1000 mm in length ±30	2740 mm in length ±80
Lead Wire	[Core wire] Conductor : 0.2 mm², Insulation : ø1.2 mm, Shielded wire : conductor 0.31mm² Tensile strength : Static load of 2.5 N or more in the cable direction	
Weight	Approx. 11 g	Approx. 25 g

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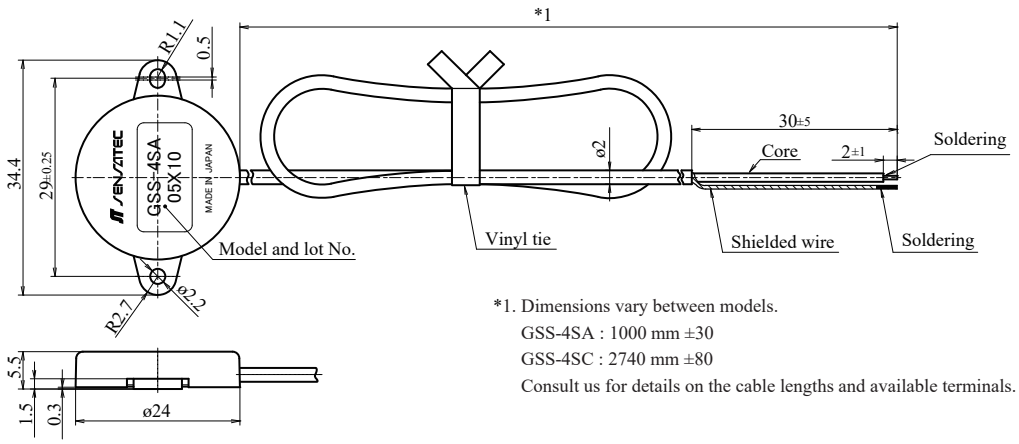
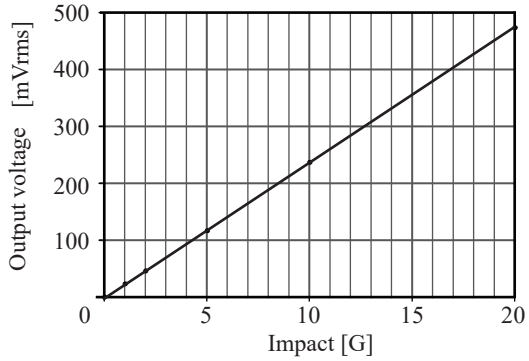
External Dimensions Diagram

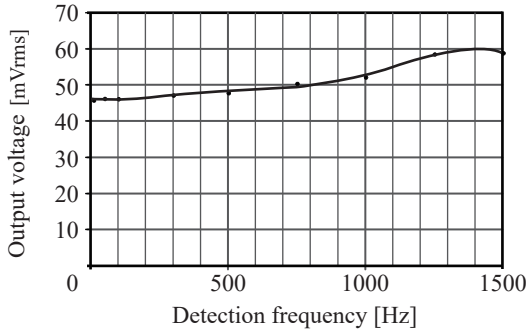


*1. Dimensions vary between models.
GSS-4SA : 1000 mm ±30
GSS-4SC : 2740 mm ±80
Consult us for details on the cable lengths and available terminals.

Reference Output Characteristics (Typical Example)



Reference Frequency Characteristics (Typical Example)



Usage Precautions

1. Install the sensor so that the impact comes perpendicular to the case surface.
2. Do not use the sensor when stress is applied on the connected part, or when the cable is subject to impacts and oscillates. Otherwise, the cable may break or the sensor may malfunction.
   Secure the cable connected part so that it does not oscillate and no stress is applied on it.
3. The pickup may break if strong impacts are applied to the sensor. Be careful when manipulating the sensor.
4. If the sensor is subject to thermal shocks, its detection sensitivity will vary as long as it is subject to the sudden temperature change. Check the environment before using the sensor.
5. When connecting the sensor output to an amplifier, make the input impedance 20 MΩ or more.
   Never apply direct current in this case.
6. The output voltage may vary slightly if the cable length is modified. Check the voltage before using the sensor.
7. Always use plain washers to tighten the case and use a torque of 1.2 N.m or less.
8. See Impact sensors general usage precautions for other precautions.

*For a detailed specification of the other, please refer to specifications.