

SHAKE SS300



Seismic Switch

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Introduction

SHAKE SS300 is an advanced seismic switch with a tri-axial MEMS accelerometer to help with earthquake disaster mitigation. The unit has three sets of fully isolated mechanical relays. Using Modbus RTU communication, the device can be connected to other systems to activate emergency processes in the event of an earthquake.

Equipped with a 100dB MEMS accelerometer and flash to store the last earthquake information, SHAKE SS300 two sets of DI inputs make set-up and use simple.

The sampling rate of SHAKE SS300 is fixed at 200 SPS to ensure accurate data. Along with the low-pass filter, artificial vibration noise can be effectively filtered out. The dynamic offset allows SHAKE SS300 to be installed on the ground or wall. The three sets of relay can be activated through different settings, such as PGA, PGV and seismic intensity scales, including MMI, KMA, JMA, GBT and CWB standards. Users can also monitor, test or reset relays through Modbus RTU.



Key Features



Support International Standard of Intensity Scale



Modbus Protocol



Dynamic Offset



Datalogger with LCD Display of Real-time Parameters

Applications

- ✓ Safety Switch for Elevators
- ✓ Automatic Shutdown of Gas Valves or Pipelines
- ✓ Earthquake Protection of Production Lines

Best Suited



Seismic Hazard Control



Emergency Shutdown

Specifications

Sensor Type	Tri-axial Accelerometer
Measuring Range	± 2 g
Sample Rate	200 SPS
Frequency Response	0.1 ~ 20 Hz
S/N Ratio	22.5 μ g / Hz ^{0.5}
Shock Resistance	5000g 0.5ms
Digital Resolution	16-bit
Trigger Algorithm	PGA、PGV、STA / LTA
Communications	Modbus RTU(RS-485)
Number of Relays	3 (Form A / Form B)
Relay Active Mode	PGA, PGV, Seismic Intensity Scale
Contact Rating	0.3A@60 VDC
Event Reset	Auto / Manual
Voltage	10 - 26 VDC
Power Consumption	1W@12 VDC
Operating Temperature	-10 to 60 °C
Dimension (WxLxH)	153 x 117 x 54 mm
Weight	750 g

Be the frontier of environmental monitoring

Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investments, perfecting our manufacturing of monitoring systems, and expanding into Smart City and IoT monitoring. With more than 1,000 local and international customers, Sanlien is trusted by global customers with high standards. By working with renowned agents around the world, we ensure the optimal performance and reliability of our services. With 50 years of profound experience in Taiwan, Sanlien has become the most exceptional provider of measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a global partner into a three-in-one strategy: long-term deployment of globalization, integration of local resources, and localized operations. We shall march on step by step with the stamina for running a marathon.