



# AS-971 Digital Vibration Detector

## User Manual

*Please read it carefully before using*

AS-971 digital vibration detector adopts the most advanced piezoelectric vibration induction principle, detect the vibration wavelength and frequency. It is suitable for ATM, cash vault, jewelry store, prevent object from knocking, hitting or other damage, etc.

Has a microprocessor, alarm output can be triggered by a single large vibration or several accumulated slight vibration. Its sensitivity can be adjusted according to different environments to avoid false alarm.

Has normal closed (NC) output, can be compatible with control panels.

### 1. Main Features

Piezoelectric vibration sensing principle

Suitable for various environments, especially for installation on the surface of objects.

Sensitivity can be adjusted

Accumulate slight vibration and alarm

Anti-tamper

It's slim and convenient for installation

### 2. How to Open the Housing for Installation

Remove the screw cover slightly (Fig.1), loosen the screw and open the front cover (Fig. 2).

Can be fixed on the surface of protected object in any direction.

### 3. Terminal Connections

The connector 12 VDC is used for power input.

The connector ALARM is used for alarm output.

The connector Tamper is used for anti-tamper output.

### 4. Sensitivity settings

1) Rotate the sensitivity potentiometer to the end in counterclockwise, and set the high sensitivity jumper (S1) off. Now the sensitivity is the lowest (Fig. 3).

2) Rotate the sensitivity potentiometer slowly in clockwise to increase the sensitivity. Knock the protected object, pay attention to the alarm indicator LED, confirm the item can alarm correctly.

3) If need high sensitivity, set the S1 on.

### 5. Detection range

Surface Material	Detection Radius (M)
Ferroconcrete	0.5
Brick Wall	0.5
Steel	3.0
Glass	3.5
Plank Stuff	3.5

### 6. Specification

Sensor	Vibration Sensor
Induction Way	Piezoelectric
Operation way	9~16 VDC
Operation Voltage	< 20 mA

Operation Current	NC, max 100 VDC/500 Ma, 10 VA(W)
Alarm Output	2.2 s
Warm-up Time	< 1 minute
Working temperature	-10°C~55°C
Storage Temperature	-20°C~60°C
Size	85*26*32 mm
Installation Way	Unlimited

### 7. Notice to Installation

Choose a suitable place to confirm can detect the vibration signal from the protected area. When installation, please confirm screw the item fasten with the protected object. Don't fasten the items with adhesive tape.

