Wireless Vibration Detector
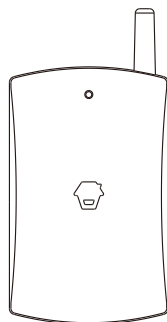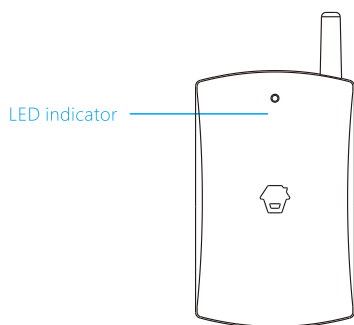
WD-80

User Manual

Introduction

The Wireless Vibration Detector adopts the theory of vibration, touch and motion mode. Once it detects any vibration, it will automatically send wireless signal to the control panel for alarm. It is widely used for object with a solid or thick structure, like safe and so on. Its vibrating sensitivity can be adjusted in three levels thus it can prevent false alarm effectively. Two pieces of AAA 1.5V LR03 batteries are included in the detector, which enables 12 months standby.
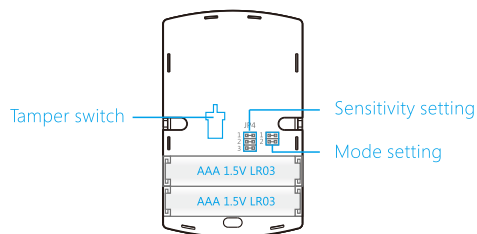
Product Overview

LED indicator

LED Indication

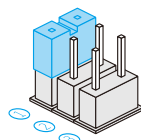Flash once: Vibration detected, sending wireless signal to the control panel.
Flash once every 2 seconds: Low battery, please replace the battery immediately.

PCB Layout

Tamper switch

Sensitivity setting
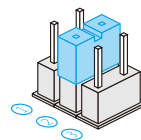
Mode setting

AAA 1.5V LR03
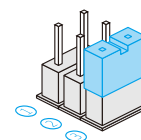AAA 1.5V LR03

Sensitivity Setting

Take off the back case with screwdriver, and put the black jumper cap onto the jumper of required sensitivity level.
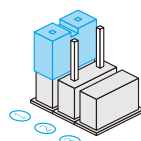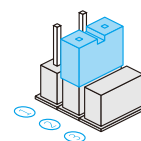
High sensitivity   Medium sensitivity   Low sensitivity

Mode Setting

Normal Zone   24-Hour Zone

Connecting to the Control Panel

Normal Zone: In armed or home mode state, the system will alarm immediately once the sensors in normal zone are triggered.
24-Hour Zone: The system will alarm immediately once the 24-hour zone detector is triggered. 24-hour zone setting is recommended for detectors such as smoke detector, gas detector, IR beam detectors which needs protection for 24 hours.
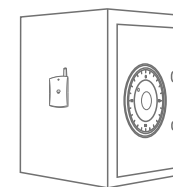
Please connect the detector with control panel before use:
1. Make sure the control panel is under pairing state (please refer to the relative user manual).
2. Knock once on the surface of the detector to simulate an alarm (LED flashes once), when a beep is heard from control panel, it means the pairing is successful.

Installation

1. Remove the insulating strip; the detector will enter working mode.
2. Clean the surface of object to be installed.
3. Fix the detector on the surface of the object with double-sided adhesive tape and make sure the antenna is upward.

Note: Whether a vibration signal will be detected depends on not only the knocking strength on objects, but also the strength, frequency and duration of the signal.

Specifications

Power Supply   DC 3V (AAA 1.5V LR03 x 2 PCS)
Static Current   < 29 uA
Alarm Current   < 22.2 mA
Transmitting Distance   < 100m (in open area)
Radio Frequency   315 MHz/433.92MHz (±75KHz)
* Only 433.92MHz is available for Europe
ERP(dBm).MAX   -8.76
Housing Material   ABS plastic
Operation Condition   Temperature   0°C~+50°C
Relative Humidity   < 80% (non-condensing)
Detector Dimensions (L x W x H)   54 X 14.5 X 107mm

CE Declaration of Conformity

Hereby, Chuango AIoT GmbH declares that the Wireless Vibration Detector WD-80 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
https://www.chuango.com/english/compliance_WD-80

INFORMATION FOR THE USERS

At the end of its life, the device has to be separated from the other waste. Consign the device and all its components together to a center of electronical and electrotechnical waste recycling center, designated by your local authorities.

2006/66/EC and its amendment 2013/56/EU (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.