

成品尺寸：360*200mm

Smart Photoelectric Smoke Alarm

User Manual

Model: JKD-516Z



EN 14604:2005/AC:2008

EN

Thank you for purchasing this Smoke Alarm.
This instruction manual contains important information on starting operation and using the device, store this manual in a safe place for future reference.
The instruction manual is a part of the device – bear this in mind if you pass on this device to others.
Please take a few minutes to thoroughly read the manual and familiarize yourself and your family with its operation.

Table of Contents

1. What to do if the Smoke Alarm Sounds
2. Product Important Information
3. Installation Instructions
4. Understanding your Smoke Alarm
5. General Maintenance
6. Battery Information
7. Product Specifications
8. How to Connect Your Alarms to Your Home Gateway
9. Manufacturer Information

1. What to do if the Smoke Alarm Sounds

Smoke alarm pattern is three long beeps, repeating every 2 seconds. the ALARM indicator(red) will flash the same pattern.

What to do in case of fire.

1. Do not be panic, stay calm.
2. Leave the building as quickly as possible, touch doors to feel if they were hot before opening them, use an alternate exit if necessary, crawl along the floor, and do stop to collect anything.
3. Meet at a pre-arranged meeting place outside the building.
4. Call the fire department form outside the building.
5. Do not go back inside a burning building, wait for the fire department to arrive.

2. Product Important Information

CAUTION! -This Smoke alarm was designed to detect smoke from any source of combustion in a residential environment. It is not designed for use in recreational vehicle (RV) or boat.

CAUTION! -This Smoke alarm was designed for indoor use only. Do not expose to rain or moisture. Do not knock or drop the alarm. Do not open or tamper with the alarm as this could cause malfunction.

CAUTION! -This Smoke alarm is designed to detect smoke from ANY source of combustion. It is NOT designed to detect any other gas.

CAUTION! -This Smoke alarm will not protect against the risk of smoke when the battery has drained.

CAUTION! -Installation of the alarm should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

CAUTION! -This device should be installed by a competent person.

CAUTION! -This Smoke alarm is not intended to alert hearing impaired individuals.
WARNING! - Do NOT try to repair the device, it has the risk of electric shock or malfunction if the device is tampered with.

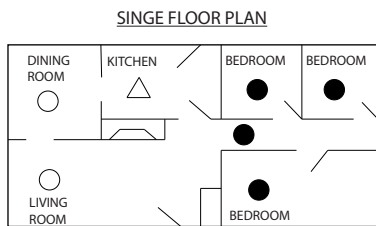
1. The TEST/SILENCE button accurately tests the device functions, do not use any other test method, test the device weekly to ensure proper operation.
2. If you're sure it isn't a really alarm, open windows or fan the air around the device for silence it.
3. Observe and follow all local and national electrical and building codes for installation.
4. This Smoke alarm is designed to be used inside a single family only. In multifamily buildings, each individual living unit should have its own smoke alarm devices, do not install in non-residential buildings, and the device is not a substitute for a complete alarm system.
5. Install a Smoke alarm in every room and on every level of the home. Smoke may not reach the smoke alarm for many reasons. For example, if a fire starts in a remote part of the home, on another level, in a chimney, wall, roof, or on the other side of a closed door, smoke may not reach the device in time to alert household members. This Smoke alarm will not promptly detect a fire dangerous except in the area or room in which it is installed.
6. This Smoke alarm can only sound their alarms when they detect smoke or detect combustion particles in the air. They do not sense heat, flame, or other gas. The device is designed to give audible warning of a developing fire. However, many fires are fast- burning, explosive, or intentional, and others are caused by carelessness or safety hazards. In this circs, Smoke may not remake the unit alarm QUICKLY ENOUGH to ensure safe escape.
7. This Smoke alarm have limitations. The device is not foolproof and is not warranted to protect lives or property from fire. Smoke alarm is not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is possible for the device to fail at any time. For this reason, you must test the device weekly and replace unit every 10 years.

3. Installation Instructions

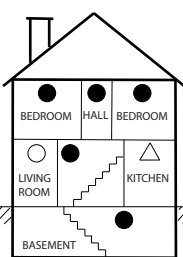
WARNING! - To prevent injury, this device must be securely attached to the ceiling/wall in accordance with the installation instructions.

3.1 Recommended location for alarms

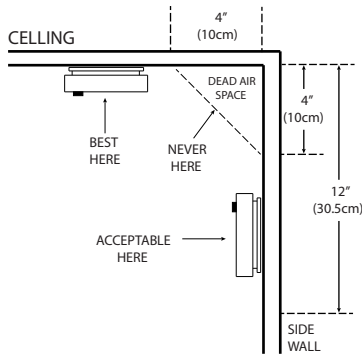
The following suggestions are intended to help you with the placement and installation of your Smoke alarm.



MULTIPLE FLOOR PLAN



- Smoke or smoke/CO alarms for required protection
 - Smoke or smoke/CO alarms for additional protection
 - Smoke alarm with silence control for additional protection
1. Install in a bedroom or hallway located close to the sleeping area. Take special care to verify the alarm can be heard in sleeping areas. If more than one sleeping area exists, locate additional alarms in each sleeping area.
 2. Locate a device in every bedroom.
 3. It is recommended that a Smoke alarm be installed on each level of a multilevel home.
 4. Locate a device in every room where electrical appliances are operated (i.e. portable heaters or humidifiers).
 5. Locate 10 feet away from all fuel burning appliances.
 6. Placing at eye level allows for optimum monitoring of the red and green indicator lights.
 7. Smoke, heat, and combustion products rise to the ceiling and spread horizontally. Mounting the smoke alarm on the ceiling in the center of the room places it closest to all points in the room. Ceiling mounting is preferred in ordinary residential construction.
 8. The device should be at least 6 feet (1.8 meters) above the floor level.
 9. When mounting a device on the ceiling, locate it at a minimum of 4 inch (10 cm) from the side wall.
 10. When mounting the device on the wall, use an inside wall with top edge the alarm at a minimum of 4 inch (10cm) and maximum of 12 inch (30.5cm) below the ceiling.
 11. Put the device at both ends of a bedroom hallway or large room if the hallway or room is more than 30 feet (9.1 m) long.
 12. Install the device on sloped, peaked or cathedral ceilings at or within 3feet (0.9m) of the highest point (measured horizontally).

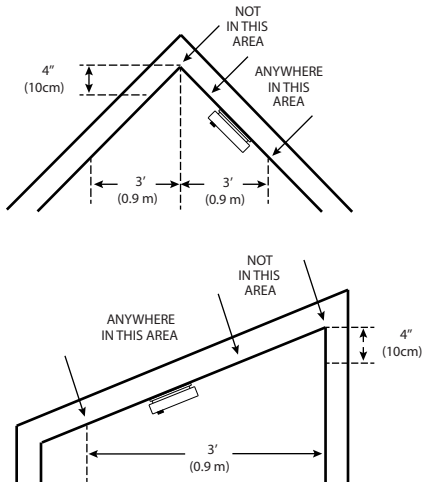


3.2 Locations to avoid

For ensure the Smoke Alarm work properly and provide detection performance, do not install the device in the following places:

1. Near appliances or areas where normal combustion regularly occurs (kitchens, near furnaces, hot water heaters). Install at least 10 feet away from these areas. Use specialized smoke alarm device with unwanted alarm control for this areas.
2. In areas with high humidity, like bathrooms or areas near dishwashers or washing machines or directly above a sink. Install at least 10 feet away from these areas.
3. Avoid spraying aerosols near the device.
4. Next to a door or window, an extractor fan, air returns or heating and cooling supply vents. Install at least 3 feet away from these areas. The air could blow smoke away from the device, interrupting its alarm.
5. In rooms where temperatures may fall below -10 °C or rise above 50 °C, or in humidity higher than 95%. These conditions will reduce battery life or cause a fault alarm.
6. In extremely dusty, dirty, or insect – infested areas influence particles interfere with the device operation.

7. In the garage, products of combustion are present when you start your automobile.
8. In an enclosed space (for example in a cupboard or behind a curtain).
9. Where it can be obstructed (for example by furniture).
10. Less than 4”(10cm) from the peak of an "A" frame type ceiling.
11. Near fluorescent lights. Electronic "noise" may cause nuisance alarms.
12. Place out of the reach of children. Under no circumstance should children be allowed to handle the device.



3.3 Installation instructions

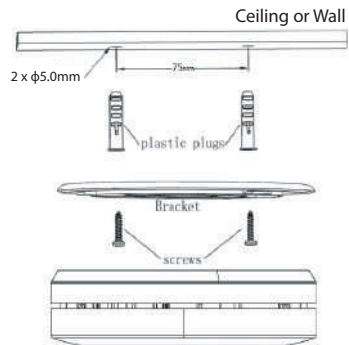
CAUTION! -This device should be installed by a competent person.

CAUTION! -This Smoke alarm MUST be installed on the matching bracket.

When choosing your installation locations, make sure you can hear the alarm from all sleeping areas. If you install only one device in your home, install the device near bedrooms, not in the basement or furnace room.

1. Drilling two $\phi 5.0\text{mm}$ holes in the ceiling or wall, the distance between two holes center is 70mm(2.76inch), then inserting two plastic plugs provided into the holes.
2. Attach the bracket to the plastic plugs and fix tightly the screws into the plastic plugs. Do NOT over-tighten screws.
3. Install and rotate the alarm body on the bracket.
4. Test the device by using the TEST/SILENCE button. Ensure the device sound is alarm pattern.

As you install the device, it maybe will sound for several minutes, then stop and enter in normal operation mode. If it always sounds, please call our agent.



3.4 Un-installation instructions

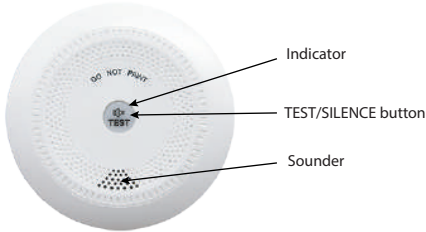
Rotate clockwise for installation
Rotate counter clockwise for un-installation



CAUTION! -This Smoke alarm MUST be installed on the matching bracket.

4. Understanding your Smoke Alarm

4.1 Product overview



1. POWER indicator(red)
The red indicator is used to indicate power status of the device. The red indicator will flash every 40 seconds.
2. ALARM indicator (red)
The red indicator is used to indicate alarm status of the smoke alarm.
3. TEST/SILENCE button
The TEST/SILENCE button is used to test the device and to silence the unit during a smoke alarm. Press and hold to enable TEST function, Or press to enable SILENCE function when alarm.
4. Sounder
The sounder is used to send out smoke alarm warning and abnormal warning information.

4.2 Operation and testing

1. Start up
After connecting the battery, the red light will flash one time and the device confirms start-up with a beep.

2. Normal operation

The POWER indicator(red) flashing every 40 seconds.

3. Low battery voltage warning

If the device chirps once every 40 seconds, with FAULT indicator (red) will be flash once every 40 seconds, it indicates the battery is low.
WARNING! - You need to replace the battery as possible as soon when the device enters this status.

WARNING! - The device will not protect against the risk of smoke when the battery has drained.

4. Smoke alarm

When the device detects a dangerous level of smoke, the device will emit a smoke alarm pattern. The smoke alarm signal pattern is 3 beeps followed by 2 seconds of silence. This cycle repeats as long as a dangerous smoke condition exists. The ALARM indicator(red) will flash the same pattern. This signal will

repeat until dissipation of smoke or the alarm signal is manually silenced.
CAUTION! - Refer to "1. What to do if the smoke alarm sounds" when you hear the sounds of the smoke alarm warning.

DANGER! - If the smoke alarm sounds, and it is not being tested, it means the unit is sensing smoke, THE SOUND OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

5. Smoke alarm silence

During the device under smoke alarm mode, push the TEST/SILENCE button, it will be paused the device alarm sound for approx 10 minutes. The ALARM indicator(red) will keep flash as smoke alarm mode, it indicates the device is running into the smoke alarm silence mode. This Smoke alarm is designed to minimize nuisance alarms.

Combustion particles from cooking may set off the alarm if the alarm is located close to the cooking area. Large quantities of combustible particles are generated from spills or when grilling/frying. Using the fan on a range hood that vents to outside (non-recirculating type) will also help remove these combustible particles from the kitchen. The smoke alarm silence (TEST/SILENCE button) is extremely useful in a kitchen area or other areas prone to nuisance alarms. The silence feature is to be used only when a known alarm condition, such as smoke from cooking activates the alarm. The device is desensitized by pressing the TEST/SILENCE button on the smoke alarm cover, the device will silence to indicate that the device is in a temporarily desensitized condition. The Smoke alarm will automatically reset after approx 10 minutes, if after this period, particles of combustion are still present, the alarm will sound again. The smoke alarm silence (smoke alarm silence mode) can be repeatedly until the air has been cleared of the condition causing the alarm.

CAUTION! -Before using the smoke alarm silence (silence), identify the source of the smoke and be certain a safe condition exists.

6. Test the device

To test the device, pressing TEST/SILENCE button, you should heard alarm sound patterns and with a corresponding ALARM indicator(red) flashes.
NOTE: After the TEST/SILENCE button is enabled, the alarm sounds and the red alarm light flashes.

NOTE: Test the unit weekly! If at any time your unit does not perform as described, replace it immediately.

WARNING! - Do NOT use an open flame to test your alarm, it could damage the alarm or ignite combustible materials and start a structure fire.
WARNING! - Due to the loudness (85 decibels) of the alarm, Always stand an arms-length away from the unit when testing.

4.3 Trouble shooting

CAUTION! -Do not attempt to repair the device. It will affect your warranty. If the device is not operating properly, and is still under warranty, return it to the original place you buy. Pack it in a well-padded carton, and ship to the original place you buy.
If the alarm is no longer under warranty, have a licensed electrician replace it immediately with a comparable alarm.

Table 4.3 Trouble shooting guide:

Problem	Method of disposal
The device does not sound when press TEST/SILENCE button	1. The device is power off. 2. The device is under "Smoke alarm silence" or "Low battery voltage warning silence" or "Fault warning" mode. Please ensure the device is under "Normal operation" mode then test the device. 3. Clean the device. Please refer to the "5. General maintenance". 4. If there are still failures during warranty, you can return it to your retailer. 5. If the unit is out of warranty, please replace another new device.
The device chirps once with red light flashes once every 40 seconds	LOW BATTERY VOLTAGE SIGNAL. The battery is under low battery status, please replace the battery.
The device sounds unwanted alarms when residents are cooking, taking showers, etc.	1. Press TEST/SILENCE button to pause alarm. 2. Clean the smoke around the device.

5. General Maintenance

To keep your Smoke alarm in good working order, please follow these simple steps:

1. Verify the unit's alarm sound and indicators operation by enable the TEST/SILENCE button once a week.
2. Remove the unit from the ceiling and clean the alarm cover and vents with a soft brush attachment once a month to remove dust and dirt.
3. Never use detergents or other solvents to clean the unit.
4. Avoid spraying air fresheners, hair spray, or other aerosols near the device.
5. Never attempt to disassemble the unit or clean inside, this action will void your warranty.
6. As soon as possible, place the Smoke alarm back in its proper location to assure continuous protection from fire.
7. When household cleaning supplies or similar contaminants are used, the area should be ventilated.

WARNING! -Your Smoke alarm will not be operational and will not monitor for smoke levels without battery.

6. Battery Information

6.1 Battery type

This device is powered by 2pcs Exnnall 1.5V AA alkaline battery, the battery type is LR6.
Once activated, the battery will supply power to the alarm for 3 years under normal operation conditions.

NOTE: Battery installation or replacement is necessary for the life of the device.

NOTE: Constant exposure to high or low humidity may reduce battery life.

6.2 Battery replacement

To test the device, pressing TEST/SILENCE button, you should heard alarm sound patterns and with a corresponding ALARM indicator(red) flashes, take out the spent batteries, install the new batteries with the correct positive and negative electrodes, check whether the device is powered on, then install the alarm on mounting bracket.

6.3 Battery disposal

WARNING! -Fire, explosion, and severe burn hazard. Do not recharge, crush, disassemble, heat above 100 °C, incinerate or expose contents to water.

1. Not to dispose of battery (or the device) as unsorted municipal waste, but collect it separately.
2. Dispose of in accordance with all applicable federal, state and local regulations.

7. Product Specifications

Model: JKD-516Z
Software version number: V1.0
Communication protocol: Zigbee
Product standards: EN 14604:2005/AC:2008
Power Supply: 2pcs 1.5V AA battery
Sensor of Smoke: Photoelectric reflection
Smoke Alarm Sensitivity: 0.25dB/m
Smoke alarm silence about 10 minutes
Product life: 10 years after manufacture
Standby Current: <50 μ A (average)
Alarm Current: <70mA (average)
Operation Ambient Condition: -10 °C ~+50 °C, <95%RH non-condensing
Storage/Transport Condition: -10 °C ~+50 °C, <95%RH non-condensing
Alarm sound : ≥85dB at 3m
Installation Location: Ceiling or wall
Detection range: Max. 40m² within a room.
Size: about $\phi 120 \times 39\text{mm}$
Weight: 180±10g (net)

8. How to Connect Your Alarms to Your Home Gateway

Step 1: Power on the gateway and use an Ethernet cable to connect it to a router.

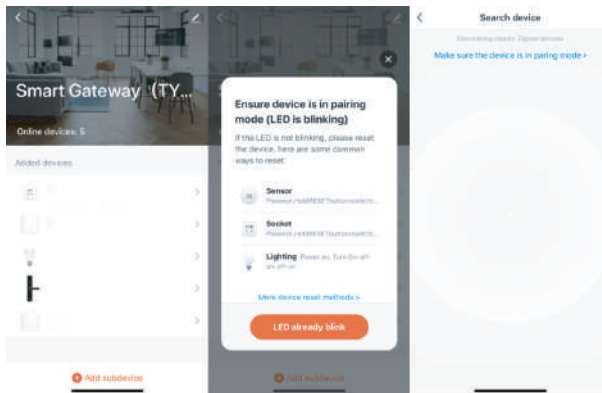
Make sure that the mobile phone and the gateway run over the same local area network (LAN). The mobile phone must be connected to a 2.4 GHz Wi-Fi network.

NOTE: After the gateway is added, a Zigbee device that is connected to the gateway can be added.

Step 2: Use your mobile phone, go to the gateway page and tap "Add subdevice".

Step 3: Press and hold the TEST button of the Alarm for 15 seconds until the green light blinking.

Step 4: Then follow the app guide to connect it.



9. Manufacturer Information:

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