AXIOM
WIRING ACCESSORIES

OPTICAL SMOKE ALARM
WITH BUILT-IN 10YRS LIFE DC 3V LITHIUM BATTERY

INSTALLATION/OPERATION INSTRUCTIONS

Code:
ALRFSB

SPECIFICATIONS

Power: built-in DC 3V(CR17450) Lithium battery
(battery not replaceable)
Alarm Volume: >85dB (A) at 3 meters
Alarm Sensitivity: 0.10-0.16dB /m
SILENCE TIME: approx. 8 minutes
Comply With: EN14604:2005/AC: 2008
Sound Pattern: ISO8201 (BI 0.5s - pause 0.5s - BI 0.5s - pause 0.5s - BI 0.5s - pause 1.5s, with the RED LED flash, repeat this alarm pattern)
Wireless Interconnection Alarm Sound Pattern:
BI - BI - pause 1.2s, with the red LED flash, repeat this alarm pattern

DESCRIPTION

The unit is a photoelectric smoke alarm device. It is particularly sensitive for detecting visible micro-particles (associated with smoldering fires) and reacts faster than ionization alarms. An example of such smoldering fires is a cigarette burning in a couch or bedding, a common cause of devastating blazes. Please note this device does not detect flames, heat, carbon monoxide or other hazardous gases. It has many advanced features and an extended operational life with the included battery.

RECOMMENDED LOCATIONS FOR ALARMS

1. The locations must comply with the applicable building regulations. BS 5839-6:2013 gives guidance on the number, types and positioning of alarms. In general, smoke alarms should be installed in every circulation space such as Hallways, Landings, Bedrooms and principal living spaces (living room). Larger spaces may require the use of more than one unit.
2. Installed on each and every storey.
3. Hot smoke rises and spreads out, so a central ceiling position is the preferred location. The air is "dead" and does not move into corners, therefore smoke must be mounted away from corners. Position the unit at least 30 cm away from walls and corners and 30 cm away from any light fitting or decorative object witch may obstruct smoke entering the Alarm. (see the diagram 1).
4. When the ceiling is slanting, the alarm needs to be installed minimum 50cm away from the highest ceiling point in the room (see the diagram 2).
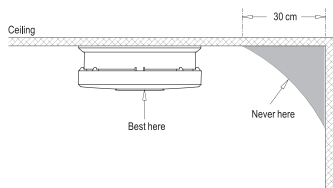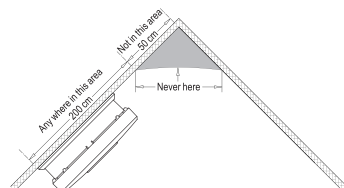

Diagram 1   **Diagram 2**

LOCATIONS TO AVOID

1. Don't place Alarms in bathrooms, Kitchens, Garages or other rooms where the Alarm may be triggered by steam, condensation and normal smoke/heat from appliances.
2. In areas with high humidity, like bathrooms or areas near dishwashers or washing machines, install at least 3 meters away from these areas.
3. Near air returns or heating and cooling supply vents, install at least 1m away from these areas. The air could blow smoke away from the detector, interrupting its alarm.
4. In rooms where temperature may fall below 0℃ or rise above 40℃. (due to nuisance/false alarm activation).
5. In extremely dusty, dirty, or insect infested areas where particles may interfere/obstruct with Alarm operation.

6. Away from air conditioning or ventilation grilles/louvres.

ACTIVATION

Press test button and hold it for above 3 seconds until LED lights, and release it within 2 seconds, the unit will generate a "beep" indicates that it is activated and goes into work status.

WIRELESS INTERCONNECTING FUNCTION

1. Ensure product activation is complete.
2. Select one of smoke alarm as the MASTER unit. Treat all other units as SLAVE units.
3. Press the test button on the MASTER unit three times within two seconds, the red LED will flash quickly, the unit is now in sending radio signal mode. This mode will last for 48 seconds.
4. While the MASTER unit is in sending radio signal mode. Press the test button on any SLAVE unit three times within two seconds, the SLAVE unit learns this signaland complete the pairing after a sound "beep" with light flash once.
5. Repeat the above steps on all other SLAVE units.

Clear wireless connection function

Press the test button on any SLAVE unit three times within two seconds, the red LED will flash quickly, then press and hold the test button again until the red light goes out the first time and release the button immediately, the red LED will flash slowly, at this time, press the test button again, the SLAVE unit will beep 3 times, which means that the SLAVE unit clears wireless connected successfully.

CAUTION:

MUST activate alarm first, or else there is no function for this unit. The smoke alarm is designed to be wirelessly interlinked with up to 40 products.
They are not designed to communicate with wireless alarms from other ranges or manufacturers. These alarms need to be "learning" or interlinked in order to communicate with each other. If one alarm activates, all other interlinked alarms will also sound. Only successful interconnection units can clear the radio signal. Clearing the radio signal only removes the radio signal from the slave unit. The MASTER unit can not clear the radio signal.

INSTALLATION

WARNING: To prevent injury, this unit must be securely attached to the ceiling in accordance with the installation instructions.
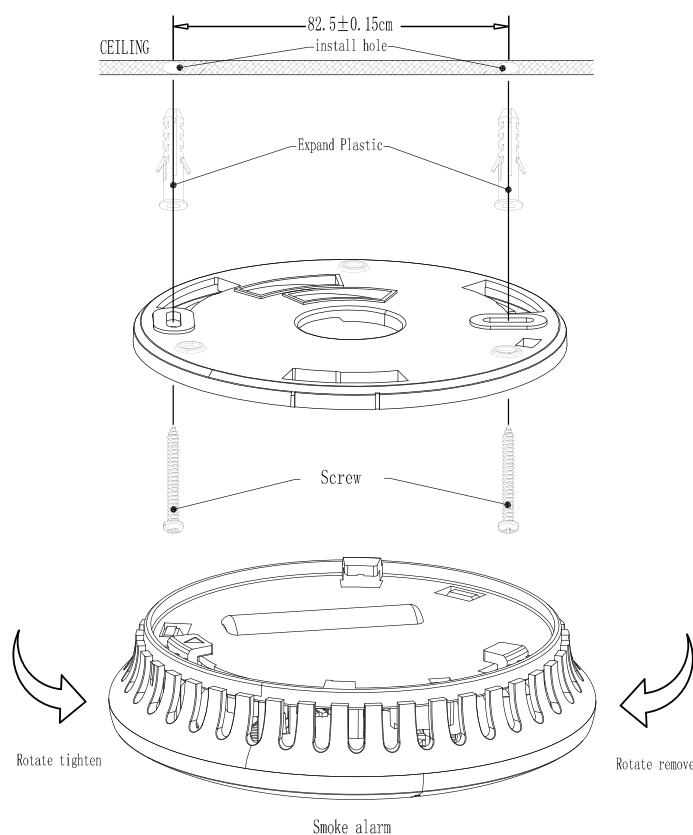
Installation Sketch Map

Diagram 3

OPERATION AND TESTING

Testing
Test by pushing the test button on the cover. This will sound the alarm if the electronic circuitry, alarm, and battery are working. If no alarm sounds, the unit has defective batteries or other failures.
DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.
NOTE: Weekly Testing Is Required

Normal Condition
The red LED should flash every 48 seconds to show that the alarm is active.

Alarm Condition
When the Alarm senses products of combustion and sounds the audible alarm, the red LED will flash one flash/second. The flashing LED and pulsating alarm will continue until the air is cleared.

Low Power Pack Condition
IMPORTANT: Your smoke alarm requires the power pack to have sufficient capacity of power to operate correctly.
Should your smoke alarm enter a low power pack condition the unit will emit an audible chirp once every 48 seconds with light flash once. When this occurs you must replace the alarm immediately. Your smoke alarm will continue to warn of this low power pack condition for at least 30 days, however, failure to change the alarm after this time would mean your smoke alarm may have insufficient power to alert you in a real fire situation.

Fault indication
The alarm chirp occurs every 48 seconds.

Alarm silence
During the unit is alarming, push the test button, it will be paused the unit alarming for approx 8 minutes. The red LED will flash once every 8 seconds, it indicates the smoke alarm device is running into the silence mode.
If your smoke alarm emits the full alarm signal and you are not testing the unit, the smoke alarm is warning you of a potentially dangerous situation that requires your immediate attention. Only use the alarm silence function after making sure that there is no ongoing fire emergency situation. Do not block the vents on the alarm or disable the smoke alarm in any way, as this will remove your protection. Smoke alarms can sometimes react to cooking fumes or other non emergency situations. In the event of a known false alarm your smoke alarm can be temporarily silenced by pressing the test button. Your alarm will automatically return to full sensitivity within 8 minutes.
NOTE:
1. Press and release the silence button, the alarm sound will stop.
2. Your alarm will silence and enter into a reduced sensitivity reset cycle for approximately 8 minutes.
3. During the reduced sensitivity reset cycle, the red LED will flash once every 8 seconds.
4. Your alarm will automatically return to full sensitivity on completion of the reset cycle and the red LED will revert to flashing once every 48 seconds.
DANGER: Never ignore any alarm ignoring the alarm may result in injury or death. If your smoke alarm activates and alarms and you are not absolutely certain of the source of the smoke, get everyone out of the house immediately.

WHAT TO DO IN CASE OF A FIRE IN YOUR HOME

1. Do not be panic, and stay calm.
2. Alert small children in the home.
3. Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.
4. In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through crack don't open that door! Instead, use your alternate exit. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
5. If the air is smoky, stay close to the floor. Breathe shallowly through a cloth, wet if possible.
6. Once outside, go to your selected meeting place and make sure everyone is there.
7. Call the fire department from your neighbor's home -not from yours!
8. Don't return to your home until the fire officials say that it is all right to do so.

ROUTINE MAINTENANCE
• In addition to weekly testing, the alarm requires periodic cleaning to remove dust, dirt, and debris.
• Clean the alarm at least once a month to remove dust, dirt, or debris.
• Use a vacuum cleaner with the soft brush, vacuum all sides and covers of smoke alarm device.
• This alarm has a low battery monitor which will cause the alarm to "chirp" approx every 40 seconds and the red LED flash once at the same time for a minimum of thirty days when the battery gets low.
• If there is a defective battery or other failures, you can refer to "Trouble shooting" for solution, if there are still failures during warranty, you can return it to your retailer.
IMPORTANT: Do not attempt to remove the cover to clean inside. This will affect warranty.

Cautions
• Photoelectric smoke detectors can reduce the likelihood of a disaster, but they cannot guarantee a 100% safety.
• To ensure your maximum security, please install all smoke detectors exactly according to this manual.
• Keep the detectors clean. Do not allow dust to accumulate and test them at least once a week.
• Replace them immediately if they are not working properly.

TROUBLE SHOOTING

Problem	Method of disposal
Smoke alarm device does not sound when tested.	1. Must activate alarm before installation. 2. Clean smoke alarm device. Please refer to the "maintenance and cleaning" section. 3. if there are still failures during warranty, you can return to your retailer. 4. if the unit is out of warranty, please replace another new alarm.
The alarm "chirp" with red LED flashes once every 48 seconds.	The battery is under low battery status, please replace the smoke alarm device.
Smoke alarm device chirp occurs every 48 seconds (alarm goes into fault mode).	Clean smoke alarm device. Please refer to the "maintenance and cleaning" section. Purchase and change another smoke alarm device if the problem still exist
Smoke alarm device sounds unwanted alarms intermittently or when residents are cooking, taking showers, etc.	1. Press test button to pause alarm. 2. Clean smoke alarm device. Please refer to the "maintenance and cleaning" section. 3. Move smoke alarm device to new location and press test button.
The alarm sounds different from it is used to. It starts and stops.	1.Clean smoke alarm device. Please refer to the "maintenance and cleaning" section. 2.if there are still failures during warranty, you can return to your retailer. 3.if the unit is out of warranty, please replace another new alarm.

WARRANTY INFORMATION
Company warrants to the original consumer.
Purchase each new smoke alarm device to be free from defects in material and workmanship under normal use and service for a period of 5 years from the date of purchase. This warranty does not cover damage resulting from accident, misuse or abuse or lack of reasonable care of the product. In no case shall company be liable for any incidental or consequential damages for breach of this or any other warranty express or implied, whatsoever. The bad products can be mailed to the seller and detail the problem.

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