

Heat Alarm User's Manual

MODEL: F/CDA/HT

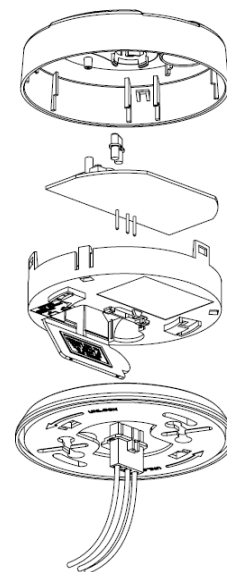
Heat alarms are ideal for kitchen, garages, basements, boilers rooms, attics and other areas where there are normally high levels of fumes, smoke, or dust which are also for areas where smoke alarms should not be installed due to risk of nuisance alarms.

MAIN FEATURES

- AC operated type heat alarm with battery back-up
- The heat alarm is sensitive only to a fixed temperature
- Less nuisance alarms due to contamination, dust, and insects
- With quick fix mounting bracket
- Simple AC connector for easy installation
- Fitting and battery tamper-resist feature
- Alarm and AC power supply indicator
- Extra loud alarm sound over 85 dB
- Inter-connectable up to 20 units
- Low-battery and battery missing warning sound
- Self-test button
- Auto-hush function when temperature is below alarm point

SPECIFICATION

- Model Number: CDA/HT
- Operation Temperature: 0° to 45°
- Power Source: 220-240V AC 50Hz and 9V DC Battery back-up
- Alarm point: 58° (135°) fixed temperature triggers alarm
- Alarm Sound Level: 85 decibels at 3m (10 feet)
- Standby Current (9V battery): 15u A max
- Alarm Current (9V battery) : 20m A max
- Maximum Distance from wall: 5m
- Compact size: 110mm diameter



WARNING

Heat alarms are not life safety devices and are not designed to detect smoke. Heat alarms detect temperatures of 58° (135°) or greater, and are intended to be used as supplements to smoke alarms by providing early warning.

IMPORTANT SAFETY INFORMATION

1. This heat alarm requires constant 220-240V AC 50Hz mains power supply to operate properly. Backup 9V DC battery will offer additional protection in the event of power failure. This heat alarm WILL NOT work if AC power is not connected or has failed or been interrupted for any reason. **AND** if the backup battery is removed, drained or improperly connected, the alarm will not work during a power failure. DO NOT use any other kind of battery except as specified.
2. The Test button accurately tests all heat alarm functions. Test heat alarm weekly to ensure proper operation.
3. This heat detector is mains powered and requires installation by a qualified Electrician in accordance with the current regulations.
The circuit used to power the detector must be a dedicated permanent supply that cannot be switched off accidentally by the

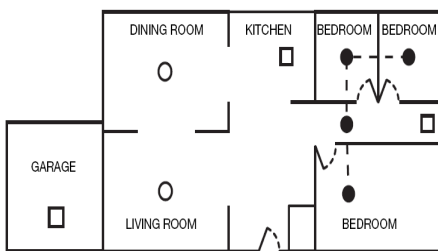
normal user. Before installing ensure the electrical supply is isolated.

4. This heat alarm is designed to be used inside a single family building only. In multi-family buildings, each individual living unit should have its own heat alarm. DO NOT install the alarm in non-residential buildings or places which house many people like hotels, motels, dormitories, hospitals, nursing homes, or group homes.
5. Heat alarms should be used as supplements to smoke alarms in order to provide early warning of heat or fire. In addition, Heat. This alarm may not always detect slow, smoldering, low heat producing fires. In addition, heat from a nearby fire may bypass the heat alarm.
6. The alarm sounder of the heat alarm is generally loud enough in order to alert individuals of a potential danger. However, there may be limiting circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, the hard of hearing, etc.). If you suspect that your heat alarm may not alert a household member, install additional alarms.
7. This heat alarm can only sound its alarm when it detects temperatures of 58° (135°) or greater. Heat alarms do not detect smoke, flame, or gas .In some fires, hazardous levels of toxic chemicals and smoke can build up before a heat alarm will operate. Temperatures may not reach 58° (135°) to activate the heat alarm QUICKLY ENOUGH to ensure safe escape.

HEAT ALARM PLACEMENT

Heat alarms have an audible warning when the temperature at the alarm reaches 58° (135°).Heat alarms are ideal for kitchens, garages, basements, boilers rooms, attics, and other areas where there are normally high levels of fumes, smoke, or dust.

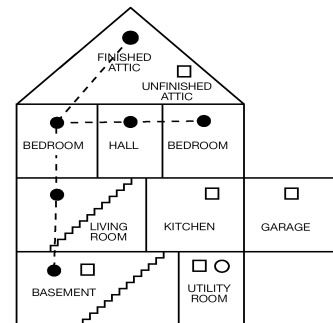
Single-Story Residence



Key:

- Minimum required smoke alarm locations
- Recommended additional smoke alarm locations
- Recommended heat alarm locations

Two-Story Residence

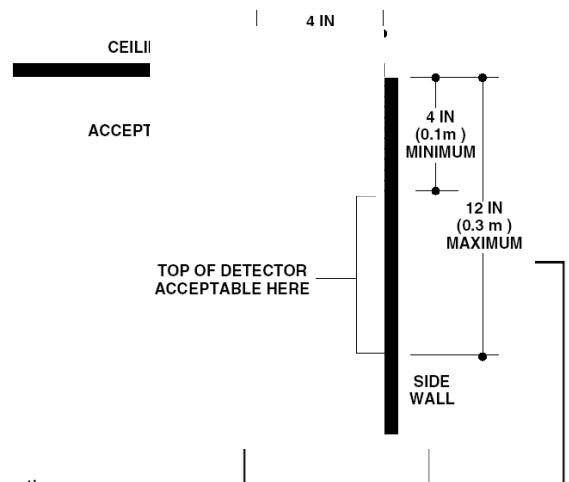


HEAT ALARM LOCATIONS

1. Install a heat alarm as close to the center of the ceiling as possible. If this is not practical, mount the alarm no closer than 300mm from a wall or corner.
2. 3. Install heat alarms on peaked or gabled ceilings within 600mm 2 feet from the highest point (measured vertically).

DO NOT INSTALL HEAT ALARMS:

1. In areas with high humidity, like bathrooms or areas near dishwashers or washing machines. Install at least 3 meters (10 feet) away from these areas, if possible.
2. Near air returns, heating and cooling supply vents, fans, decorative objects, window molding etc. that may prevent heat from entering the unit thus interrupting its alarm.
3. In rooms where temperatures may fall below 0° or rise above 45°.
4. Near fluorescent lights-electrical noise and flickering may affect the alarm's operations.




WARNING: Incorrect orientation will result in a decrease in operational effectiveness.

HOW TO INSTALL THIS HEAT ALARM

DANGER: ELECTRICAL SHOCK HAZARD.

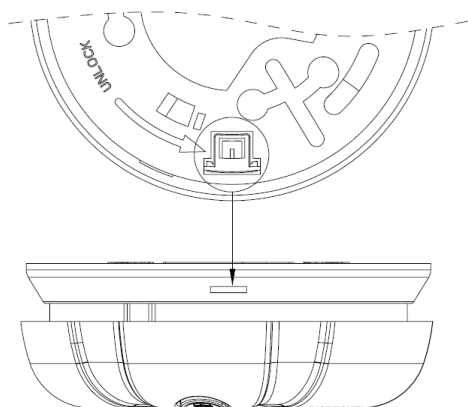
Turn off power at the main fuse box or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position.

 **WARNING:** This heat alarm is mains powered and requires wiring by a qualified electrician in accordance with the current IEE Regulations for Electrical Installations (BS7671).

The circuit used to power the heat alarm must be a dedicated permanent supply that cannot be switched off accidentally by the normal user. Before installing ensure the electrical supply is isolated.

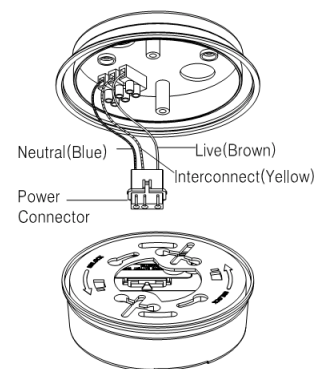
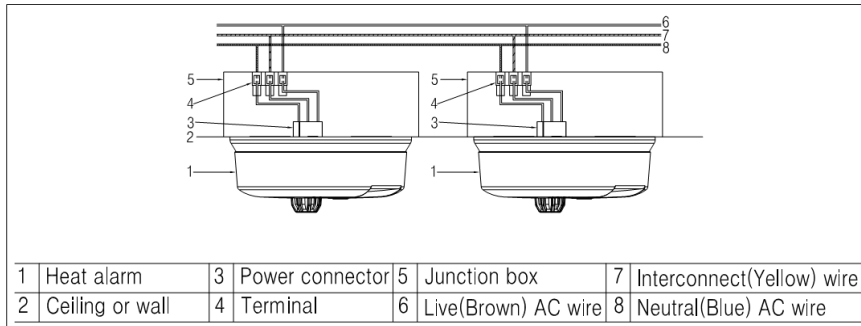


- From rear of heat alarm, remove the mounting plate by turning it counterclockwise. (To later engage tamper-resist feature, twist out and set aside one of the pins molded into plate. Both pins are exactly the same.)
- Secure plate to ceiling or wall with mounting screws.
- With a small wire connector, connect brown wire from connector plug to 'Live'.
- Connect blue wire from connector plug to 'Neutral'.
- If this detector is to be used as a single-station heat detector, ensure the yellow wire is insulated correctly.
- Open the battery compartment.
- Connect new 9-volt battery to battery connector inside battery compartment. Be sure battery is securely connected. Heat alarm may beep briefly when battery is installed.
- Close battery compartment, snapping it into place.
- Attach connector plug to pins on back of heat alarm. Plug will only fit one way and will snap into place.
- Gently tug connector to be sure it is attached securely.
- Position heat alarm to mounting plate and turn clockwise to lock into place. To engage tamper-resist feature, insert pin into notch on edge of heat alarm after alarm is properly positioned in base.
- **NOTE:** Heat alarm will not mount to plate if battery is not installed.
- Turn on power at main fuse box or circuit breaker.
- Push test button to test heat alarm. See **TESTING THE HEAT ALARM.**



INTERCONNECTING CO/SMOKE/HEAT ALARMS

Note: The YELLOW WIRE IS NOT 'EARTH'



For interconnecting line, only use 1.5mm minimum solid or stranded wire. When being interconnected, maximum wire length between any two is 1500 feet for 1.5mm (20 OHMS loop resistance). The alarm can be interconnected with as many as 20 other Channel Safety Systems alarms. Do not connect to any other type or model heat alarms except those specified. This alarm is powered by 220-240V AC 50Hz and with 9V DC Battery back-up.

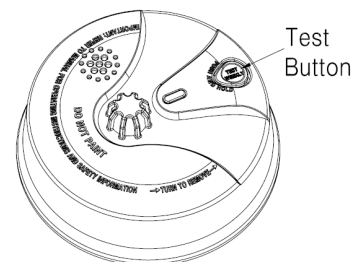
OPERATING YOUR HEAT ALARM

Once the heat alarm has been installed a small GREEN indicator light (LED) should be visible through the alarm grill indicating that AC supply is healthy. A RED indicator light (LED) should also flash approximately once a minute to indicate the battery is healthy and the unit is operating properly.

If heat is detected, the unit will emit a loud pulsating alarm and a RED indicator light (LED) will be flashing quickly until the detected temperature is below its fixed temperature.

TESTING THE HEAT ALARM - COMMISSIONING

1. Test each heat alarm to be sure it is installed correctly and operating properly.
2. Use a proprietary heat detector tester. Do not use an open flame to test this heat alarm.
3. Test heat alarms weekly
4. Stand at arm's length from the heat alarm when testing.



TEST ALL HEAT ALARMS WEEKLY BY DOING THE FOLLOWING:

1. Firmly push the TEST button, and the heat alarm will sound a loud beep.
The alarm will stop sounding after releasing the TEST button.
2. If heat alarm does not sound, please retest it.



DANGER: If the alarm sounds, and heat alarm is not being tested, the heat alarm is sensing 58° (135°) or greater temperature. ACTIVATION OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

MAINTENANCE AND CLEANING

In addition to weekly testing, this heat alarm requires yearly battery replacement and periodic cleaning to remove dust, dirt, and debris.

BATTERY REPLACEMENT

Always **turn off the AC supply** to the detector before replacing the battery.

Replace battery at least once a year or immediately when the low battery signal sounds once a minute, even though the Detector is receiving AC power. Battery should be replaced regularly as necessary.



WARNING: Do not use any other type of battery, except as specified in this manual.
Do not use rechargeable batteries.

A good quality battery should be used. Some batteries may last more than one year.

The battery should only be replaced by a qualified electrician or similarly qualified person.

1. Turn off AC power supply to the Detector.
2. Remove the 2 tamperproof tabs fitted between the base plate and detector by tools. Turn Detector anti-clockwise to detach it from the mounting plate.
3. Gently pull down Detector.
4. Remove battery from the compartment.
5. Insert a new 9-volt battery to connector. **NOTE POLARITY OF CONNECTIONS.** Ensure the metal tab is fully depressed when the battery has been fitted.
6. Using the Push-to-Test button, test the Detector to verify 9V DC battery back-up. See **“TESTING THE DETECTOR”**
7. Reattach the Detector to the mounting plate by turning Detector clockwise until it snaps into place. Insert the two tamperproof tabs back into the notch on edge of Detector after alarm is properly positioned in base
8. Turn on power supply and test Detector using push-to-test button. See **“TESTING THE DETECTOR”**

Note: If the unit fails to operate when being tested, Please refer to **“TROUBLESHOOTING”**.

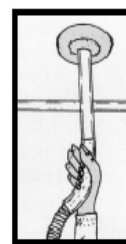
CHOOSING A REPLACEMENT BATTERY:

The unit requires one standard 9V battery. The following batteries are acceptable as replacements:

Duracell, Eveready, Powersonic.

CLEAN THE HEAT DETECTOR

Clean the Detector at least once a month to remove dust, dirt, or debris. Using the soft brush or wand attachment to a vacuum cleaner, vacuum all sides and cover of Detector. Be sure all the vents are free of debris. If necessary, use a damp cloth to clean Detector cover.



IMPORTANT: Do not attempt to remove the cover to clean inside the Detector. This will void your warranty.

NOTE:

- Never use detergents or solvents to clean the alarm. Chemicals can permanently damage or temporarily contaminate the sensor.
- Avoid spraying air fresheners, hair spray, paint or other aerosols near the alarm.
- Do not paint the alarm. Paint will seal the vents and interfere with proper sensor operation.

TROUBLESHOOTING



WARNING: DO NOT disconnect battery to silence an unwanted alarm. This will remove your protection.

Trouble Shooting Guide

PROBLEM	SOLUTION
Heat alarm does not sound when tested. NOTE: Push test button for at least five seconds while testing!	1. Remove heat alarm from mounting plate and check that battery is properly attached to connector. 2. Clean heat alarm.
Heat alarm beeps about once a minute.	Replace battery. See battery replacement in the maintenance and cleaning section.
Heat alarm sounds unwanted alarms	1. Clean heat alarm. See cleaning in the maintenance and cleaning section 2. Hire an electrician to move heat alarm to a new location. See HEAT ALARM PLACEMENT
The alarm sounds different than I'm used to. It starts and stops.	The alarm is operating correctly. This alarm features the internationally recognized horn signal for evacuation. The alarm sound pattern is 3 short beeps followed by a 2 second pause and then repeats.