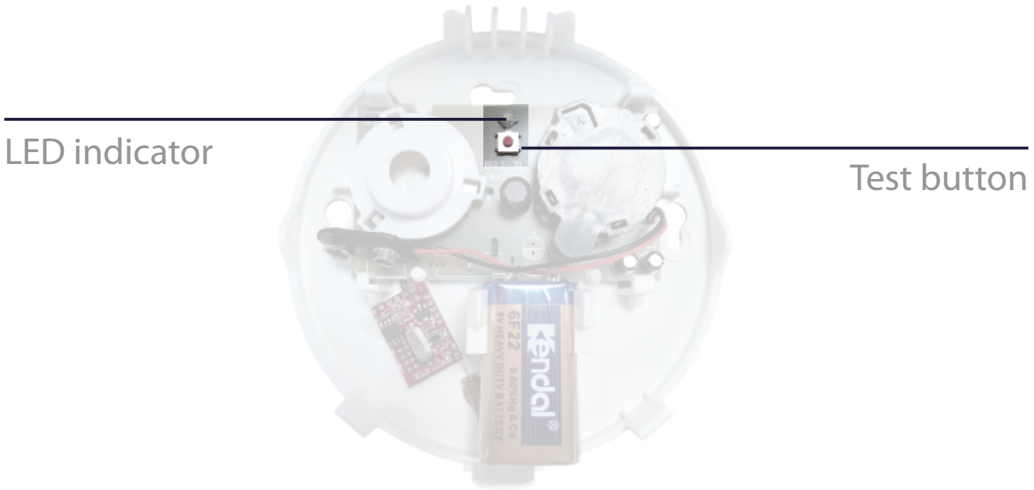


Wireless Smoke Detector



Introduction

This photoelectric smoke detector is designed to detect smoke anywhere the detector is installed. It does not detect gas, heat or flames. This smoke detector is designed to inform you in case of start of fire thanks to its built-in siren. It enables you to save precious time and evacuate your house before the fire spreads. However, this smoke detector can only send an alert if located, installed, and taken care of according to the instructions in this user manual.

Box Content

- Wireless Smoke Detector
- Screw pack x 1
- 9V battery x1
- Documentation

Specifications

- Internal antenna
- Radio-frequency: 433 MHz
- Transmission distance: ≤ 100 m (in open area)
- Smoke sensitivity: 0.16 ~ 0.2dB/m
- Volume: >85dB (at 3 m)
- Current (standby): <10 uA
- Current (operating): <12 mA
- Powered by 1 x DC 9 V battery (included)
- Battery life: ≥ 1 year
- Certification: EN 14604-2005
- Dimensions: Ø140 x 40 mm
- Reference: WSD501

Installation

Install the batteries

Open the back plate, remove the battery insulation and connect the battery with the PCB board.

Connect the Wireless Smoke Detector to your alarm system

Switch to Connection Mode on the control panel. Press and hold the test button on the detector for 3 seconds. The control panel beeps once: the detector is registered. If you hear two beeps, the detector has already been connected.

Remark

For a continual protection of your home, the detector is assigned to the 24h zone as per default settings. In case of low battery, the detector will beep once every 40 seconds.

The detector is working: make sure the LED blinks once every 45 seconds. If so, the detector is in normal detection mode. When the smoke detector triggers an alarm, the alarm will not stop until the air is smoke-free again.

Operating test

Press the test button. The detector beeps 3 times every second, the LED indicator blinks fast and sends a signal to the alarm system. To make sure the detector is working properly, it is recommend to run this test monthly.

Mounting

Make sure you have read carefully the instructions for optimal and unsuitable installations before mounting the detector.

Select a suitable location (generally speaking, place the detector at the center of the ceiling of the detection area) and screw the mounting bracket to the selected location (see drawing below).

Insert the battery in its compartment and press the test button and make sure the detector can work properly.

Care

It is recommended to open the cover and remove the dust in the detector's smoke chamber by soft brush per six months.

Remove the battery before cleaning the detector. Remove the dust with a vacuum cleaner (attached to a soft brush). Carefully remove dust in the detector components, especially in the openings of the smoke chamber. Hand-wash the cover with a cloth dampened with clean water and dry it with a lint-free cloth. Do not let any water in the detector components.

Once your detector is clean, replace the battery, and close the cover. Test the detector after cleaning.

Installation guidelines

Smoke detectors must be installed according to the European standard CE EN 14604. For a complete coverage of your home, the detectors must be installed in every room, storage area, cellar, attic and corridor. The minimum number of detectors to be installed is one on each floor, one in every bedroom and one in the attic.

Useful indications

- Install one detector in every corridor next a bedroom room, as shown in figure 1. In homes with two bedrooms, it is necessary to install two detectors, as shown in figure 2.
- If your house or apartment has several floors, install a detector on each floor, as shown in figure 3.

Optimal installation

We recommend a complete coverage and the use of additional smoke detectors.

- Install a minimum of two smoke detectors for any type of home
- Install a detector in every bedroom
- Install a smoke detector at each end of a corridor giving access to bedrooms, if this corridor is more than 12-meter long
- Install a detector in every room with a door that can be used as a bedroom: smoke might be blocked by the door and the siren in the corridor might not be loud enough to wake the person up if the door is closed.

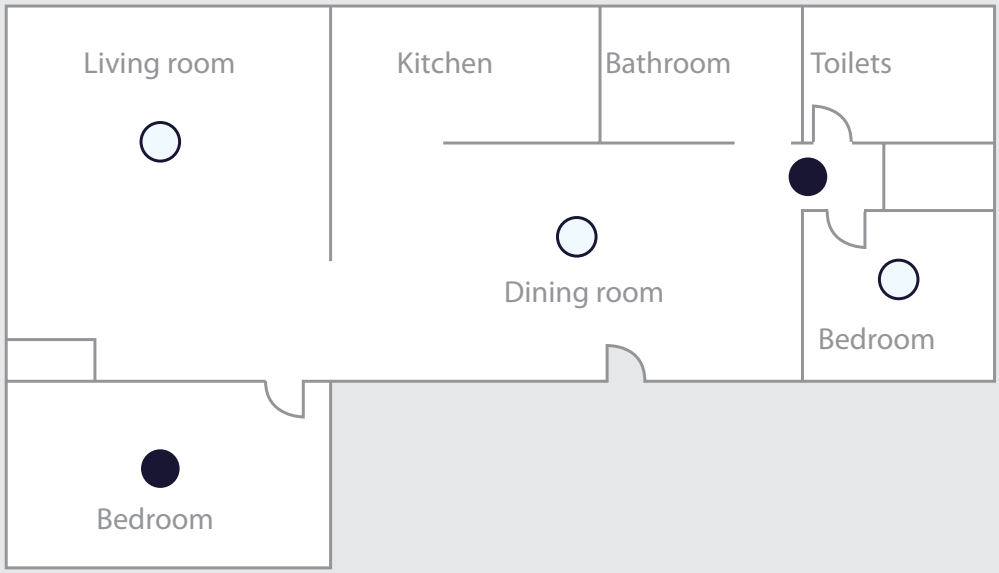


Figure 1
Locations of smoke detectors in individual houses with one bedroom

Smoke detectors for basic safety

Smoke detectors for optimal safety

Figure 2
Locations of smoke detectors in single-floor houses with several bedrooms



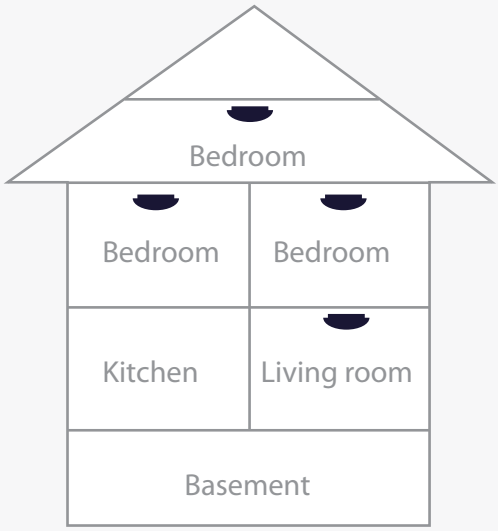


Figure 3
Locations of smoke detectors in a mutlifloor house

Smoke detectors for basic safety

- In the cellar, install the detectors near the stairs
- On the second floor, install a detector at the top of the stairwell leading from the first to the second floor.
- Make sure no door nor any obstacle will prevent the smoke from reaching the detector
- Install additional detectors in your living room, your dining room, in the common area, the attic and in the storage areas or in the laundry room
- Install the smoke detectors as close as possible to the center of the ceiling. If it is not possible, install the detector at the ceiling, minimum 10 cm from the wall, as shown in figure 4.
- If you cannot install the detector at the ceiling and wall-mount is authorized by the laws in your country, install the detectors 10 to 15 cm from the ceiling as shown in figure 4.
- If you have no choice but installing the detector on a sloped ceiling, try to install the detector at a horizontal distance of 1 m from the top of the ceiling, as shown in figure 5.

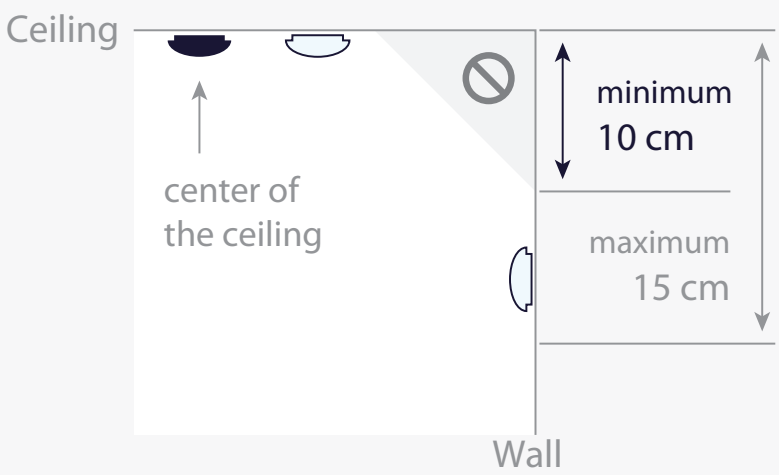
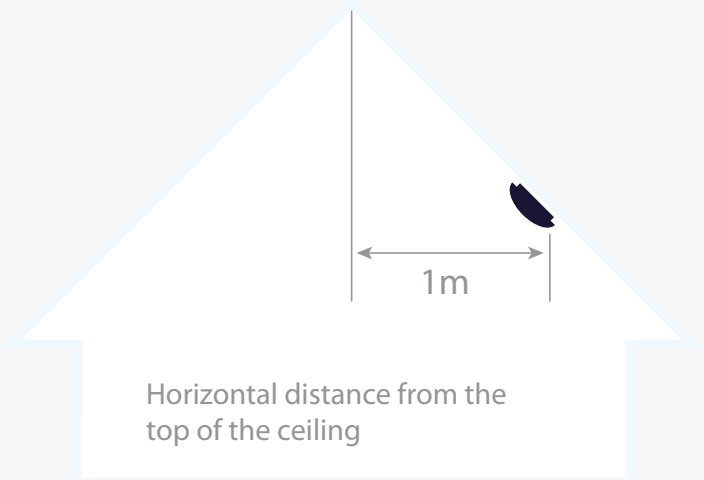
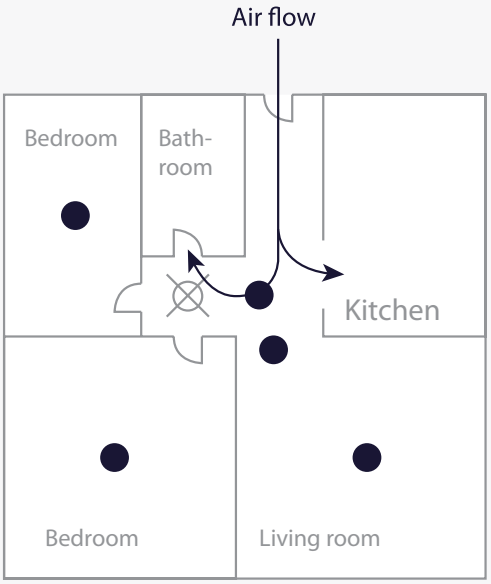


Figure 4
Optimal and acceptable locations for smoke detectors



Smoke detectors for basic safety

Figure 5
Recommended location for an installation under a sloped ceiling



Unsuitable installation

Figure 6
Recommended smoke detector locations to avoid air streams with combustion particles

Warning: unsuitable installation

False alarms occur when the smoke detectors are installed in locations where their use may be obstructed. In order to prevent false alarms, do not install smoke detectors in the following situations:

- In or near locations exposed to combustion particles, such as kitchens with few windows or insufficient ventilation, garages exposed to exhaust fumes, near furnaces, hot water heaters, and space heaters. Do not install smoke detectors less than 6 meters

away from places where combustion particles are usually present like kitchens. If the 6-meter distance cannot be respected, e.g. in a mobile home, try to install the detector as far from the combustion particles as possible, preferably on the wall. In order to prevent false alarms, make sure these locations are well ventilated.

Important

Never deactivate the detector to prevent false alarms.

- Figure 6 highlights usual air streams circulating inside a kitchen and the way potential combustion particles can reach the detector, emphasizing the recommended and non-recommended locations to install the detector.
- In damp areas or near bathrooms with showers, the moisture present in humid air may enter the smoke chamber and turn into droplets when cooling, which may cause false alarms. Install smoke detectors at least 3 meters away from bathrooms.
- In very cold or very hot areas, including unheated buildings or outdoor rooms. If the temperature goes above or below the operating range of the smoke detector, the latter will not work properly. The operating temperature range for your smoke detector is -10°C to 60°C.
- In very dusty or dirty areas, dirt and dust may accumulate in the smoke chamber and make the detector over-sensitive. Dust or dirt may also block openings of the smoke chamber. Do not install the detector near fresh air vents or in very drafty areas (next to air conditioners, heaters or fans) as it may prevent smokes from reaching the smoke detector.

- In stagnant air areas. Stagnant air areas are often at the top of a peaked roof, or in the corners between ceilings and walls. Stagnant air areas may prevent smoke from reaching the detector. Refer to figures 4 and 5 for recommended mounting locations.
- In insect-infested areas as insects entering the detector's smoke chamber may cause a false alarm. Where bugs are a problem, get rid of them before putting up a detector.
- Near fluorescent lights, electrical noise from fluorescent lights may cause false alarms. Install the smoke detector at least 1.5 meter from such lights.

Warning

Never remove batteries to prevent false alarms. In case of alarm, open a window or shuffle the air around the detector to help evacuating the smoke from the detector. The alarm will turn off once the smoke is gone. If false alarms persist, clean the detector according to the instructions in this user manual.

Keep away from the detector when the alarm is ringing out. The alarm is loud enough to wake you up in case of emergency. Long-term exposure to the alarm may be harmful to your hearing.

Standards



This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European Directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. For further information, please contact your local or regional authorities. Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

CE

In compliance with European laws. This product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and complies with the EN-14604 standard.

RoHS 2 COMPLIANT

This product was designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and of the Council on the restriction of use of certain hazardous substances in electrical and electronic equipment (RoHS Directive - RoHS) and is deemed to comply with the maximum concentration values set by the European Technical Adaptation Committee (TAC).

Manufactured in China.