

Brief detector presentation

- Battery powered smoke detector using the scattered light method
- Provides precise smoke detection
- Reduces false alarms due to its high performance measuring chamber
- Outstanding operating safety by intelligent analysis of the measuring chamber signal
- Extravagant automatic self-test of the complete electronic
- Powerful alarm signal of more than 85 dB(A) in case of fire
- Operating temperature range -10°C - $+60^{\circ}\text{C}$
- Wired linking of up to 40 smoke detectors possible for transmission of the alarm signal

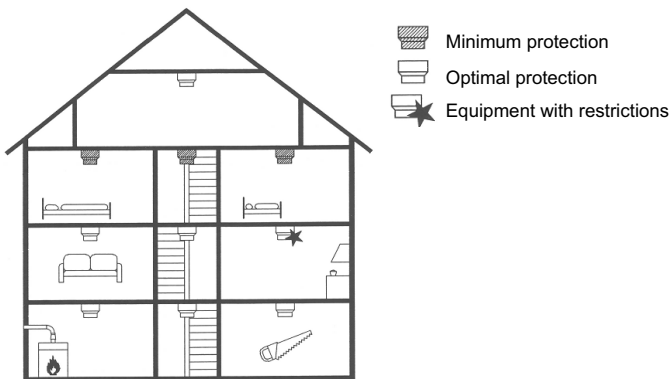
Safety instructions



- The smoke detector generates a powerful and shrill noise which can be harmful to your ears. Keep at least 50 cm distance from the detector while performing the function test.
- Never use rechargeable batteries, nor main supply circuits for power supply. This could cause malfunctioning or early breakdown of the detector.
- Never paint the smoke detector.
- Please note: Smoke detectors will always identify the smoke of a fire. They will not identify the flame itself.
- Smoke detectors are not able to extinguish any fire. In case of alarm evacuate the building and call the fire service.
- The smoke detector is capable to survey only a defined zone around its own position. For optimum protection, ensure that enough detectors are installed in the area to be monitored.
- Persons under the influence of alcohol or drugs may have difficulty hearing the alarm.

Place of installation

The smoke detector performs best when installed on the ceiling in the centre of the room. If this is not possible, ensure the detector is at least 50 cm from the wall.

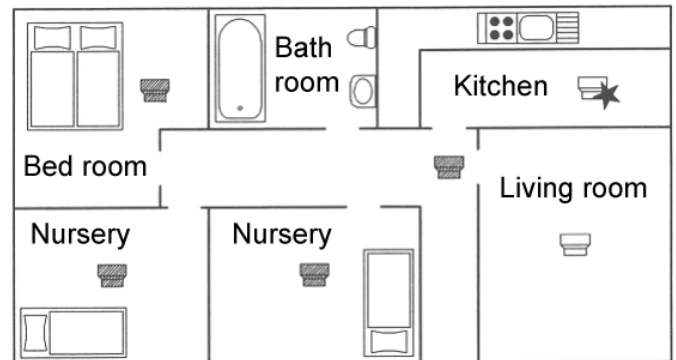


To be sure that you are woken up by smoke alarm at night the detectors should be placed in the bedrooms as a minimum protection. In houses with several floors one several smoke detector should be placed in each hall of the floor.

*) special accessory, not VdS approved



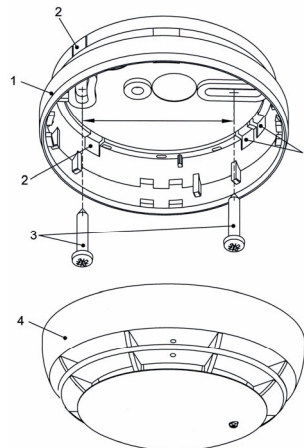
In larger houses it may be necessary to link several smoke detectors with one another in order to cover the entire living area. If one detector detects smoke, it will trigger off the alarm and activate all detectors linked to it. This way you will for example be woken up in the night by your linked detector system in your bedroom when the smoke detector in the attic identifies smoke (see our note "wired smoke detector linking").



Unsuitable places for installation

To avoid false alarms and malfunctions, never install the smoke detector:

- inside rooms where heavy vapor, dust or smoke emerge under regular conditions develop (bath, kitchen)
- near to fireplaces and open fires
- near to ventilation systems. The flow of air may deviate the smoke so it will never reach the detector
- near to neon lamps and energy saving lamps. The starter may cause false alarms by electric fields that arise when turning on the lamp (minimum distance: 50 cm)
- in edges – for example house gables - in such areas smoke free air can accumulate and the identification of fire is hindered
- inside rooms with temperatures beneath -10°C or above $+60^{\circ}\text{C}$



Installation and starting

1. Fix base (1) using the enclosed assembling parts (3). Do not allow the detectors to get dirty through occurring bore dust. Do not use countersunk head bolts.
2. Should the line that serves to link several detectors come as surface wiring, break out 1 of the 4 cable entry apertures (2) by means of a screwdriver or a similar tool.
3. Follow the instructions to link several smoke detectors if necessary. In this case study the chapter „Wired smoke detectors linking“. In case that it should be connected from the back of the base coming through a cable tube please put a seal in between the ceiling and the base to avoid current of air.
4. Connect the 9V compound battery (5) with the battery clip (6) and insert the battery in the battery tray.
5. Place the smoke detector (4) in the base and lock it by turning it gently clockwise. **Note: Without inserted battery the smoke detector will not engage inside the base.**
6. Proceed to the function test (see chapter "Function test").

If using a lithium battery:

Do not recharge, do not open, do not throw into fire, do not bring in contact with water, watch for the right polarity and do never short – circuit. Risk of explosion.

Used lithium batteries:

Do not throw in to the household waste ! Dispose at battery collecting points. Prevent the batteries of short circuit during disposal!

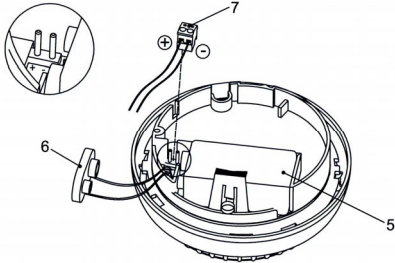
Wired smoke detectors linking

You may link up to 40 smoke detectors with each other in order to forward the alarm signal of one detector to all the other detectors.

The connection of the detectors is realized by twin wire cable (e.g. phone cable: J-Y(St)Y 2x2x0,6 mm) in parallel.

Note: Line length of the detector network in total should not exceed 450 m.

To link the smoke detectors please proceed as follows:



1. Pull off terminal screw (7) from the board.
2. Connect the terminals to the line according to following illustration.
3. Stick terminal screw back on the board.
4. Connect additional detectors by the same way. Pay attention to polarity (plus to plus and minus to minus).

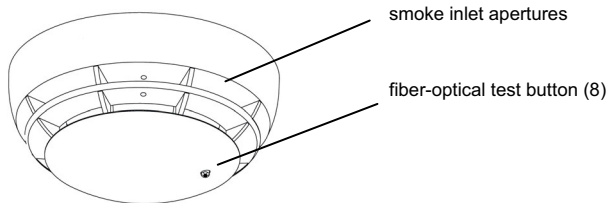
Function test



Attention: The smoke detector generates a very powerful and shrill tone which can be harmful to ears. Please keep at least a distance of 50 cm during the function test.

Perform the function test every month. Proceed as follows:

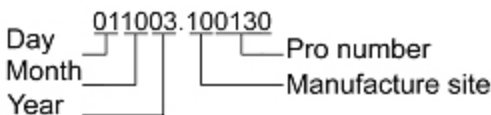
1. Check if the LED is flashing.
2. Press the fiber-optical button for at least 1 sec.: If a signal tone is generated, the detector works properly. If no signal tone is generated, please replace the batteries.



3. Check again afterwards. If still no tone can be heard then the smoke detector is damaged and has to be replaced by a new one.

Concerning wirelessly linked smoke detectors all smoke detectors connected to the network have to trigger off the acoustic alarm during the function test. If no alarm signal is given, please check the following: Battery empty? Cable correctly connected? Cable damaged? Smoke detector faulty?

Serial Number on the label



Self-test and battery test

The smoke detector identifies smoke at an early stage at the smoke development.

An independent self-test permanently controls the function of the smoke evaluation. Possible faults are shown per alarm signal (signal tone or light diode).

The power supply is continuously checked through the battery test. If the battery voltage decreases under a defined point, the smoke detector signals 30 days long that the battery should be replaced. To ensure the safety the smoke detector within these 30 days functions fully. Life time of the battery: approx. 2 years (using Alkaline-battery). Check the functionality of the smoke detector after each battery change by pressing the fiber-optical test button (8) for a few seconds.

Operation- and alarm signals

Signal		Meaning
Signal tone	LED	
-	Flashes each 40 s	Automatic self-test, regular operation mode
Loud interval tone	Flashes	Local smoke alarm or function test
Loud interval tone	-	Smoke alarm on linked smoke detector
Short signal tone each 40 s	Flashes alternating with signal tone	Failure / pollution
Short signal tone each 40 s	Flashes parallel to signal tone	Indication for battery replacement

Maintenance

In order to guarantee the operating safety of the smoke detector over a long period, you should provide approximately every 6 months (or in case of a failure message) a maintenance service.

For this please proceed as follows:

- Remove the smoke detector from the base (turn counterclockwise) and clear away the dust.
 - Wipe off the smoke detector with a damp cloth.
 - Place the smoke detector back in the base and turn it clockwise until it is locked.
- Attention: Without inserted battery the smoke detector will not engage inside the base.**
- Check if the automatic self-test (smoke detector flashes approximately every 40 seconds) is executed.
 - Perform a function test.

Replace all smoke detectors after latest 10 years.

Technical data

Detection method: Tyndall-effect
 Alarm indication: optical and acoustic
 Recommended battery: 9 V (compound-battery) IEC 6LR61
 e.g. Varta Universal Alkaline 4022, Panasonic Alkaline Max
 average lifetime of battery: approx. 2 years
 Recommended battery using wireless network module: U9VL-FP
 e.g. LITHIUM ULTRALIFE 9V (compound-battery):
 average lifetime of battery: approx. 2 years
 Operating temperature range: -10 to +60 °C
 Max. monitored area: 60 m² till 6 m height
 Indicator: red LED
 Signal tone: >85 dB(A)/3m
 Class of protection: DIN EN 14604:2005
 Dimensions without base (Ø x H): 100 x 35,0 mm
 Dimensions with base (Ø x H): 100 x 51,0 mm
 Mounting hole distance on base: 28,0 - 65,0 mm
 Housing material/color: ABS/ white
 VdS approval: CSEZ-01/19

Acceptance of guarantee

Our products are under guarantee within the scope of the statutory provisions.

Please return the unit postage paid giving a brief description of the fault:

*) special accessory, not VdS approved