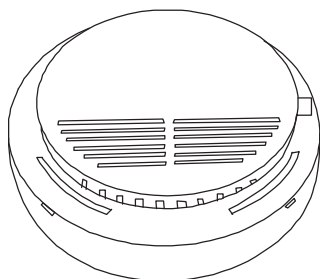


USER'S MANUAL PHOTOELECTRIC SMOKE DETECTOR

DC12V Operated Photoelectric Smoke Detector With Relay Output



General

Smoke detectors sound their alarm horn and relay contacts output when they detect smoke. Everything preventing the smoke from reaching the detector obstructs an early alarm. A single smoke detector provides only limited security. Fire in another room will only be detected after smoke reaches the alarm. It is therefore recommended to install a smoke detector on every level of the home if not in every room.

Inform yourself about fire safety rules and proper behaviour in case of a fire at your fire brigade!

Product characteristics

Photoelectric effect

This recently developed photoelectric sensor-camber is insensitive to interfering influences. Every device is separately calibrated in order to avoid false alarms due to, e.g., cigarette smoke. The power supply is electronically regulated, thereby maintaining a constant sensitivity of the alarm.

DC12V powered with Alarm Relay Output

The smoke detector is powered by outside DC9-15V input.

Alarm Relay Output

When the detector alarms, the inside alarm relay would output signals (NO, NC, COM).

Signal lamp (LED)

A flashing small light (every 43s) signalises a failure-free operation.

Fully automatic test function

Advanced electronics ensure the best possible operating readiness by means of an automatic self-test function.

Control button

Temporarily increases the detector's sensitivity to test the alarm function.

Noisy (85 dBA) piezoelectric warning sound

Vibrant warning sound in case of fire alarm - high efficiency

This device does not contain any radioactive substances!

Function

Smoke caused by fire is very dangerous, especially because of today's widespread use of synthetic materials in modern homes that might generate poisonous vapours when burning.

The smoke detector detects smoke caused by smouldering at an early stage and warns by means of a loud, vibrant sound, thereby waking inhabitants up at a point of time when a safe escape is still possible.

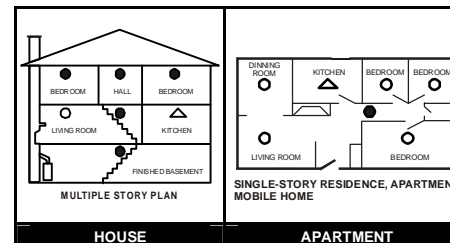
The smoke detector operates according to the scattered light principle. A light source and a photocell are arranged so as to ensure that normally no light strikes the photocell. The light source is activated in short intervals. If the concentration of smoke particles in the enclosure reaches a certain level, the light is reflected and reaches the photocell. This will set off a loud fire alarm.

Placement

- As most fires in flats start in the living areas, it is recommended to install smoke alarms between the living and sleeping areas.
- As a minimum requirement a smoke alarm should be installed outside every sleeping area in a flat. If there are separate sleeping areas a smoke alarm is to be installed outside each sleeping area.
- The minimum requirement for multi-storey houses is to install a smoke alarm on every floor of the house and outside each sleeping area, e.g. in the hallway connecting the sleeping rooms or on the stairway leading to this hallway. If there is a room in the attic, it is strongly recommended to install a smoke alarm on the ceiling as well.

- A smoke alarm shall be installed in the sleeping area of a caravan.
- For complicated or extensive properties please request qualified advice from a safety engineer or the fire brigade.

Regarding the installation of single smoke alarms it is distinguished between minimum and additional protection:



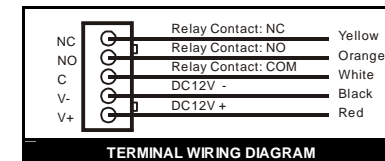
- Required to meet BSI recommendations
- Recommended for additional protection
- △ Smoke Alarms with silence features recommended for additional protection

The following locations shall be avoided:

- Next to doors, windows, ventilators etc. where draughts can deviate smoke from the sensor.
- In small or poorly ventilated garages or kitchens where waste gas or vapour may cause false alarms.
- In areas where dust and dirt can interfere with the smoke alarm operation or cause false alarms.
- In areas where insects are likely to trigger the alarm.
- In damp or humid areas (e.g. in the bathrooms).
- In rooms where the temperature may often fall below -5°C or exceed +38°C.

Installation

- Attach the mounting bracket to the ceiling or wall.
- Connect the DC12V to the smoke detector.
- Connect the relay output signal wires.
- Attach the Smoke Alarm to the mounting bracket. Turn the smoke alarm clockwise (right) until it snaps into place.
- Check immediately after finishing the installation that the smoke detector works properly by pressing the test button for at least 2 seconds.



Testing the alarm

A flashing LED signals accurate operation. A loud, vibrating sound occurs in case of a smoke alarm.

Test the smoke alarm weekly for your security by pressing the respective button (for at least 2 seconds) until you hear the alarm.

If the smoke alarm cannot be heard after pressing the button or if the LED does not flash, please do check the following points:

- Is the device damaged?
- Is the device clean? (For your security please vacuum the outside cover regularly to remove dust and dirt.)
- Is the power supply working properly? Check the DC12V power if necessary.

If the smoke alarm is still not working, do not attempt to repair it but contact a professional.

False alarms

After every alarm, check if there is a fire. In case of a false alarm do not cut off the power supply, but fan the air around the smoke alarm until the alarm turns off (if necessary vacuum the outside cover). After the alarm the device is immediately ready for operation.

Maintenance

Periodic maintenance contributes to a long service life of the smoke alarm and ensures a failure-free operation.

- Clean the outside cover with a damp cloth at least every three months (do not use any detergent!).
- Vacuum the outside cover and vents every three month. Never let the vacuum cleaner come in contact with the interior parts of the smoke alarm.

Please note!

The smoke alarm requires sufficient power to operate.

- Please use the DC9-15V power supply.
- Please check the polarity of the power supply carefully.
- Please verify that the smoke detector is working properly immediately after power on.