



Optical Smoke Alarm

Safety Warning:

This user guide contains important information on operating and using this device. Keep this user guide in a safe place for future reference. These instructions are a part of this product – bear this in mind if you pass on this product to others. Please take a few minutes to thoroughly read the user guide and familiarise yourself with its operation.

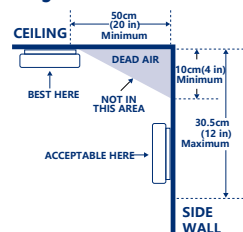
For your safety, this product must be installed in accordance with local Building Regulations. **This product MUST be installed by a competent person who is registered with an electrical self-certification scheme.** Further information is available online or from your Local Authority. Please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure the supply is disconnected, and securely locked off. Wiring should be in accordance with the latest edition of the IET regulations [BS 7671].

Recommended locations for alarms:

- Locate the first alarm in the farthest point from the exit, such as a bedroom. If there is more than one bedroom, place additional alarms in each bedroom.
- Add further alarms in any stairways as these act like chimneys for smoke and heat.
- Locate at least one alarm on every floor level.
- Locate an alarm in every room where electrical appliances such as portable heaters or humidifiers are used.
- When mounting an alarm on the ceiling, locate it at a minimum of 20° (50cm) from the side wall (Refer to Diagram 1).
- When mounting an alarm on the wall, use an inside wall with the alarm a maximum of 30.5cm below the ceiling and at least 10cm from any corner. (Refer to Diagram 1)
- Install a smoke alarm at both ends of a hallway or large room if the hallway or room is more than 9.1m long.

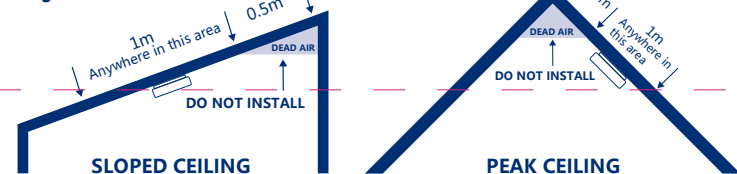
Warning: Not suitable for use in leisure accommodation vehicles(LAVs)

Diagram 1



- Smoke alarms in rooms with ceiling slopes greater than 1m in 8m horizontally should be located on the high side of the room.
- Smoke alarms installed on sloped or peaked ceilings should be located between 0.5m and 1.5m from the highest point of the ceiling. (See Diagram 2)

Diagram 2



- For single floor plan and multiple floor plan, please refer to diagram 3

Optimum protection - for dwellings where occupants may be at high risk (e.g. elderly): Same as **basic protection**, but in addition Smoke or Heat Alarms should be located in all rooms and other areas of the dwelling. (apart from toilets or bathrooms). **Interconnect all Alarms**

Basic Protection - for new or materially altered dwellings or existing dwellings with poor structural fire precautions: Smoke or Heat Alarms in all rooms or areas that present a high fire risk to occupants. (apart from toilets or bathrooms). **Interconnect all Alarms**

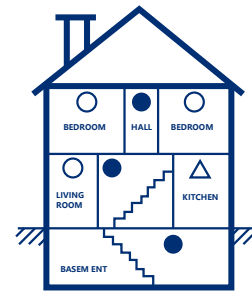
Minimum Protection: Alarms in all hallways, stairways and circulation areas that form part of the escape routes from the dwelling.

Diagram 3

- Smoke Alarms for Minimum Protection
- Smoke Alarms for Additional Protection
- △ Heat Alarm

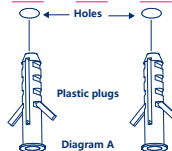


MULTIPLE FLOOR PLAN

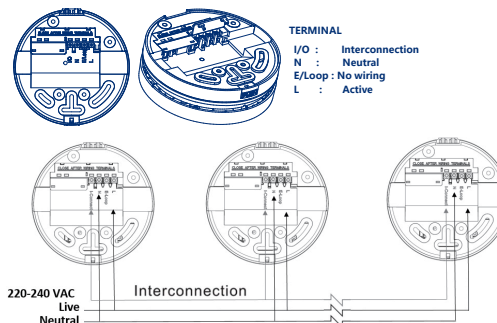


Mounting Instructions:

1. Turn off the AC power;
2. Select the location for your smoke alarm.
3. Press the base on the installation position, mark the installation holes of the bracket with a pencil. [See diagram A]
4. Drill two installation holes with a 5mm drill bit. Fit the two plastic plugs into the holes with a hammer.



5. Wire the Live, Neutral and Interconnection wire according to the wiring instructions.



WARNING:

- ENSURE THE WIRING METHOD IS CORRECT, WRONG CONNECTIONS WILL DAMAGE THE ALARM. DO NOT CONNECT LIVE OR NEUTRAL TO THE INTERCONNECT TERMINAL.
- All interconnected smoke alarms must be on the same circuit
- A common Neutral must be used for the interconnection to function
- Maximum number on interconnected alarms: 24 (or 12 if your system includes a CO alarm)
- Maximum wiring length between first and last alarm: 150m
- Use a minimum of 1.5mm² 250V insulated wire for all wiring, including interconnecting wiring
- Do not connect these Alarms to any other model produced by another manufacturer. Doing so may damage the Alarms and could result in a shock or fire hazard

6. Attach the base to ceiling using the screws provided. (See diagram B)
7. Close the alarm body (See diagram C)

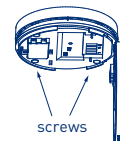


Diagram B



Diagram C

Replacing the backup battery

1. When replacing the battery, turn off the AC power.
2. Press the PUSH button to open the battery compartment.
3. Replace battery with a suitable 9V battery (GP DC 9V carbon battery; TD DC 9V carbon battery; EVE DC 9V lithium battery)
4. Test the smoke alarm is operating correctly using the TEST button.



Warning:

Test the alarm for correct operation using the test facility, whenever the battery is replaced.

Prepare an escape plan

- Make a floor plan which shows all doors and windows, with at least two escape routes from each room.
- Have a meeting with all occupants to discuss the escape plan, showing everyone what to do in case of a fire.
- Designate a place outside where everyone can meet if a fire occurs.
- Practice a fire drill every 6 months, including fire drills at night. Ensure small children hear the alarm and wake when it sounds. They must wake up and it is important that they know what to do.
- Current studies have shown that smoke alarms may not wake all sleeping individuals, and that it is the responsibility of individuals in the household that are capable of assisting others to provide assistance to those individuals.

What to do when the alarm sounds

- Alert small children in the home.
- Leave immediately using your escape plan. Every second counts so don't waste time getting dressed or picking up valuables.

- When leaving, don't open any internal doors without first feeling the surface. If it is hot or you see smoke seeping through the edges, don't open that door – use your alternative exit. If 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.
- Stay close to the floor if the air is smoky. Take shallow breaths through a wet cloth if possible.
- Once outside gather at your designated meeting place.
- Call the fire department from a neighbour's home or mobile phone.
- Do not return to your home until the fire officials deem it safe to do so.

Function	Indication	Description
Standby status	The Red LED flashes every 50 seconds	The unit is working
AC power indication	The Green LED illuminates continuously	The unit is receiving AC power
Low battery warning	The unit chirps with Red LED flashing every 50 seconds	Battery is running low, replace the battery within 30 days
Fault warning	The unit chirps alternately with the Red LED flashing twice	The unit is faulty – see "Trouble Shooting"
Self-test fault warning (reserve)	The Red LED flashes twice every 50 seconds	Buzzer fault or buzzer detection circuit fault
End-of-life warning (reserve)	The unit chirps between the Red LED flashing twice	The unit will send an end-of-life warning after 10 years. Replace with a new alarm
Test function	The Red LED flashes once every second with alarm sounding until the TEST button is released	<ul style="list-style-type: none"> • Test by pressing the TEST button on the smoke alarm for at least 5 seconds • The alarm will sound if the electronic circuitry, siren and battery are working properly • If no alarm sounds, refer to "Trouble Shooting"
Weekly self-test	The unit chirps weekly	Self-test instead of manual weekly testing
Silence function	The Red LED flashes every 8 seconds	<ul style="list-style-type: none"> • This smoke alarm has a built-in Silence feature • If cooking or other non-hazardous sources cause the alarm to sound, it can be temporarily silenced by pressing the HUSH button for over 2 seconds • The alarm enters silent mode for 10 minutes • After 10 minutes, the smoke alarm will resume normal operation
Fire alarm	The Red LED flashes every second, with alarm sounds	Generate alarm sounds when there is a fire
Interconnection alarm	The unit generates alarm sounds without Red LED flashing	The unit will enter the interconnection alarm mode when it receives wired interconnected alarm signals
Do not disturb	The Red LED flashes every 50 seconds	The unit will stop nuisance warnings about low battery or fault mode when the HUSH button is pressed

CAUTION:

- Before using the silence function, identify the source of the smoke and make sure the situation is safe. After 10 minutes silence, the unit will resume normal operation.
 - DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and this could result in a fire.
 - If the alarm sounds, and it is not being tested, it means the unit detected smoke.
- THE SOUND OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.**
- The do not disturb function is only active at night, so that the nuisance warnings do not affect your rest.

Technical:

Main Power Source	220-240v~50Hz, 60mA Max
Secondary Power Source	Battery Backup: 9V DC
AC Operating Current	< 60mA
Interconnecting	Max. 24 alarms (wired 150m maximum) or 12 alarms if a CO alarm is included in your system
Operating Temperature	0°C to 40°C
Ambient Humidity	5-95%
Alarm Sensitivity	0.100-0.17 dB/m
Alarm Volume	≥ 85dB(A) @ 3m
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 flashing, repeat this alarm pattern)
Standards	BS EN 14604:2005/AC:2008

Cleaning your alarm

YOUR ALARM SHOULD BE CLEANED AT LEAST ONCE A YEAR

- To clean your alarm, press the push button to open the alarm.
- You can clean the interior of your alarm by using compressed air and blowing through the openings around the perimeter of the alarm.
- The outside of the alarm can be wiped with a damp cloth only.
- Do not spray with liquid or foam cleanser, as doing so may damage the device.
- After cleaning, close your alarm and test using the TEST button.

Using the dust cover

This alarm is supplied with a red dust cover which should be placed over the alarm when painting or decorating to keep it dust free. This should then be removed when painting or decorating is completed.

Guarantee

BG Electrical products are guaranteed against faulty materials and workmanship for a period of 10 years from date of delivery: products will be repaired or (at BG Electrical's discretion) replacements will be supplied or (at BG Electrical's discretion) a credit note will be issued. This guarantee is subject to BG Electrical's conditions of sale and in particular to the following conditions being met:

1. Notification of any defect is given to BG Electrical as soon as reasonably practicable after becoming apparent, and the products then returned to BG Electrical.
2. The products have only been operated under normal operating conditions and have only been subject to normal use.
3. No work (other than normal and proper maintenance) has been carried out to the products without BG Electrical's prior written consent.
4. The products have been assembled, or incorporated into other goods, by a qualified and recognised electrician and only in accordance with any instructions issued by BG Electrical.
5. The defect has not arisen from an item manufactured or supplied by a person other than BG Electrical. This guarantee does not affect any consumer statutory rights.

Trouble Shooting:

Problem	Cause and Remedy
The green LED does not light when AC power supplied	<ul style="list-style-type: none"> • Check the AC line is properly connected to the smoke alarm • Ensure that the AC power is turned on
The Red LED does not flash every 40s	<ul style="list-style-type: none"> • Ensure that the battery and the AC power are properly connected
Smoke alarm does not sound when tested	<ul style="list-style-type: none"> • Ensure that the battery and the AC power are properly connected • Clean the smoke alarm. Then take out the battery and turn off the AC power • Install battery and turn on the AC power after 3 minutes
Low battery warning	<ul style="list-style-type: none"> • Ensure that the battery is properly connected • Install a new battery - refer to "Replace Battery" section
Fault warning	<ul style="list-style-type: none"> • Clean the smoke alarm • Take out the battery and turn off the AC power • Wait 3 minutes, then install the battery and turn on the AC power
Self-test fault warning	<ul style="list-style-type: none"> • Press the TEST button at least 15 seconds, then release
False alarm	<ul style="list-style-type: none"> • Press the HUSH button to silence it • Clean smoke alarm device • Move the smoke alarm device to new location
The alarm sounds different from how it used to	<ul style="list-style-type: none"> • Ensure that the battery is not in low battery warning mode • Clean the smoke alarm • Take out the battery and turn off the AC power • Wait 3 minutes, then install the battery and turn on the AC power
The alarm can't interconnect with other alarms	<ul style="list-style-type: none"> • One or more of the alarms may have been wired incorrectly. Check all of the alarms in your system to find the alarm that has been wired incorrectly, remove and replace this alarm with a new one.

If the problem still exists, please return to your retailer.
If the unit is out of warranty, please replace with another new alarm.
NOTE: If self-test fault warning exists, but the product can sound the alarm when the test button is pressed, the product can continue to be used. In this instance the alarm should be manually tested weekly by pressing the test button instead of running self-test weekly.

Batch Number Explanation

XX (year) XX (month) XX (date) X (serial number)

Address/Helpline

Luceco PLC
 Stafford Park 1
 Telford TF3 3BD
 ENGLAND

(EU) Luceco SE
 C/ Bobinadora 1-5
 08302 Mataró
 SPAIN

If you have further technical assistance you can get in touch with our

Technical Helpline on:
+44 (0)3300 249 279
technical.support@bgelectrical.co.uk

Environmental Protection



This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.



KM 762034

UK CA
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 DoP: 001
 Smoke Alarm
 BS EN 14604:2005/AC:2008
 0086-CPR-775741



2797-CPR-775742

CE
 22
 DoP: 001
 Smoke Alarm
 EN 14604:2005/AC:2008