

Trouble Shooting

Smoke alarm does not sound when tested	Remove smoke alarm from bracket and check the battery is connected properly. If this doesn't work, try replacing the battery with a new 9V battery. If there are still failures, the fitting will need to be replaced.
Alarm chirps every 40 seconds at the same time as the red LED flashes	The battery is low and must be replaced.
Alarm chirps every 40 seconds	Clean smoke alarm according to 'Product Maintenance'. If the issue persists, the fitting will need to be replaced.
Alarm chirps and red LED flashes every 2 seconds. See 'Operation, Power Fault Indication Condition'	Switch off power immediately. Check all wiring of all alarms. Test the interconnected alarms by press and hold the test button for 6 seconds. If a fitting is damaged, it must be replaced.
Alarm false triggering intermittently or when cooking, or taking showers Alarm starts and stops or is alarming differently to how it did before	Determine the triggered alarm by alarm sound pattern and light flash mode Press the button to mute the alarm. Clean smoke alarm according to 'Product Maintenance'. If the issue persists, move the alarm to a new location.
Alarm starts and stops or is alarming differently to how it did before false trigger	Clean smoke alarm according to 'Product Maintenance'. If the issue persists, the fitting will need to be replaced.

Should you experience any difficulty when installing this product, please call the

GL Helpline on 01905 610200

during normal office hours 8.30am to 4.30pm, Monday to Friday

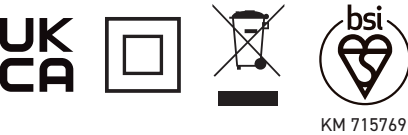
Please note that this equipment and its components have NO user serviceable parts. GL tries to improve its products for the benefit of its customers. For this reason we reserve the right to make any changes to any product at any time without notice.

GL Instructions GL-P101 Mains Powered Smoke Alarm. Recognised by the NHBC and LABC.

©Green Lighting Ltd. 2023 www.gl-e.uk



GL-P101
Mains Powered Optical Smoke Alarm
ASSEMBLY & FITTING INSTRUCTIONS



Please read these instructions carefully before attempting to install this fitting.
It is advisable to keep these instructions in a safe place for future reference. If this fitting is installed by a contractor, the contractor should ensure that the customer has a copy of these instructions.



Description

The GL-P101 smoke alarm is particularly sensitive to smouldering fires (for example, cigarettes burning on soft furnishing and electrical equipment – a common cause of devastating blazes), reacting faster than ionization alarms.

Specification

Voltage:	220-240V AC
Backup:	9V Battery
Alarm Volume:	>85dB at 3 metres
Silence Time:	Approx. 8 minutes
Interconnect:	Max 40 alarms
Complies with:	BS EN 14604:2005

Choosing a Location

The locations of smoke alarms must comply with BS 5839-6. In general, smoke alarms should be installed on each floor in all circulation spaces (such as hallways, landings, bedrooms and living rooms).

Larger spaces may require multiple smoke alarms.

The unit must be mounted at least 30cm away from walls, corners and any light fitting or decorative object (as they may obstruct smoke entering the alarm).

For slanted ceilings the fitting must be installed a minimum of 50cm from the highest point, but no more than 250cm away from it. [See Fig. 1]

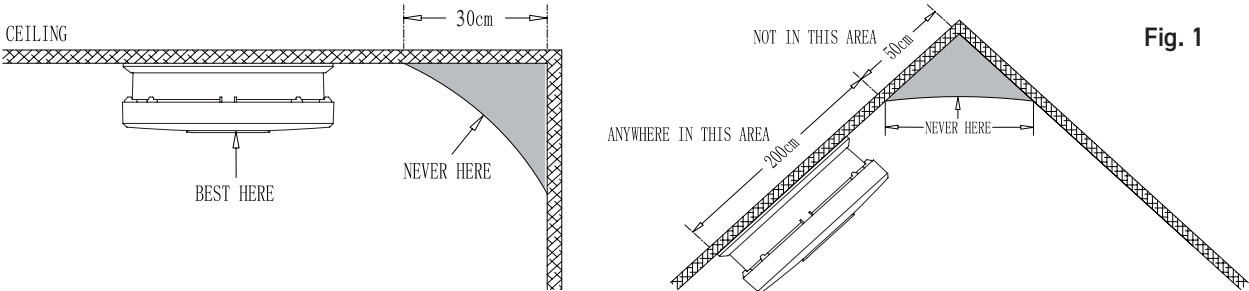


Fig. 1

Locations to Avoid

The alarms should not be installed in bathrooms, kitchens, garages or other rooms where the alarm may be triggered by steam, condensation and normal heat or smoke from appliances.

We recommend that where possible alarms are installed at least 6 metres from appliances such as boilers and ovens, as these produce combustion particles.

Fittings should be installed away from heating and cooling supply vents, as this could blow smoke away from the detector.

Alarms should not be placed in rooms where the temperature may get outside the range of operating temperatures (0 and 50°C) as this can cause false triggers.

They should not be installed in dusty, dirty or insect infested areas where particles may interfere with the alarm's operation.

Interconnecting Smoke and Heat Alarms

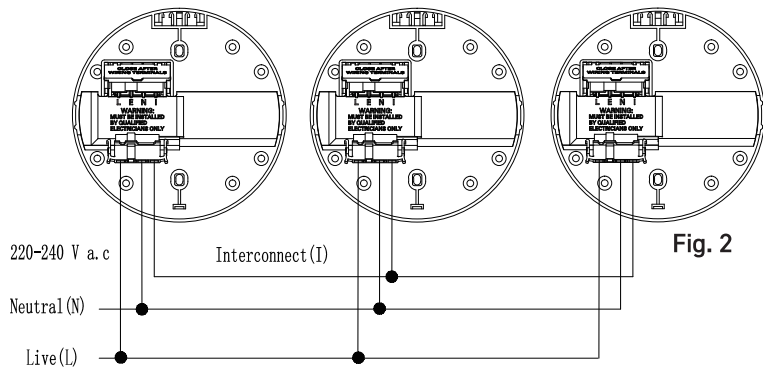
GL's smoke and heat detectors are capable of being interconnected, wired together so that if one alarm is activated then all the alarms which are linked on the circuit will also sound.

These are triggered by a 9V signal applied to the interconnect terminals in the connected alarms.

The maximum wiring length between alarms is 150m and a maximum of 40 alarms can be interconnected on the same circuit.

The interconnected alarms must be on the same circuit and share a common Neutral to operate.

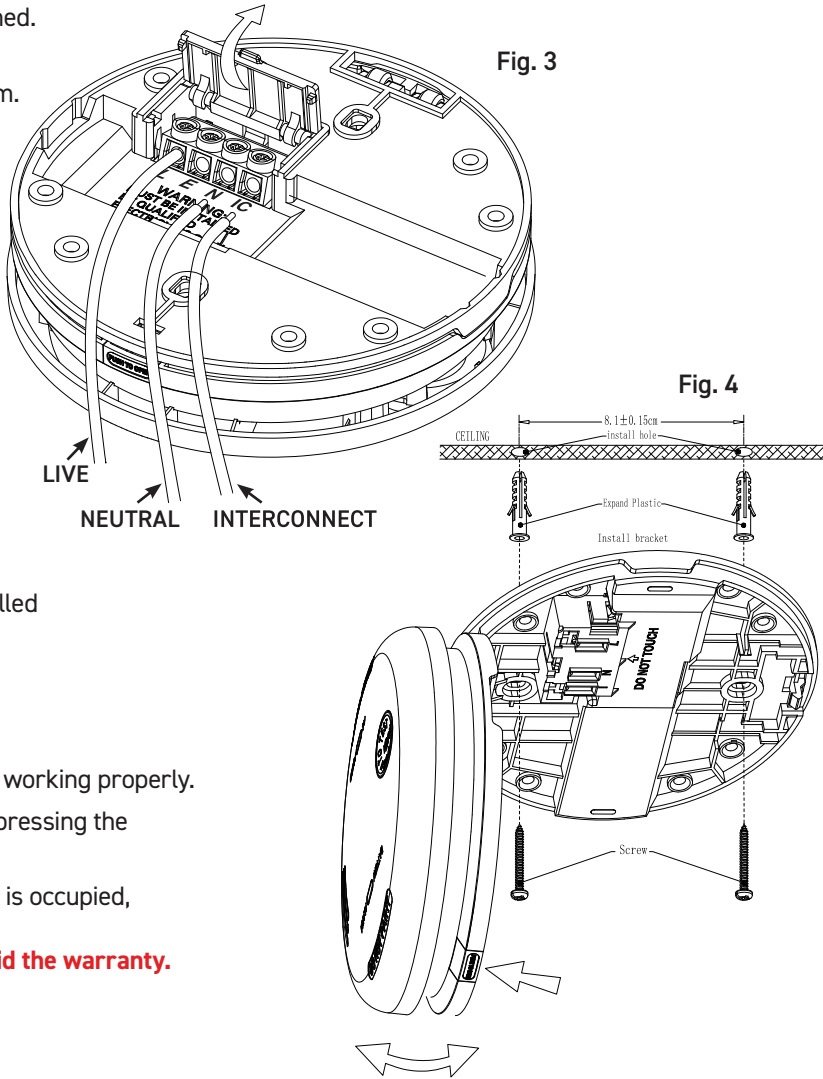
[See Fig. 2]



Installation

The alarm must be installed with dust cover still attached. Removing the dust cover early will void the warranty.

1. Wire the fitting to the mains using the wiring diagram. [See Fig. 3]
L: Live (Brown)
E: Earth (Green & Yellow)
N: Neutral (Blue/Grey)
IC: Interconnect (Black)
- Incorrectly wiring the Live or Neutral wires to the Interconnect will damage all alarms on the circuit. This will void the warranty.**
2. Close the terminal cover.
3. Screw the backplate to the mounting surface using appropriate fixings. [See Fig.4]
4. Clip alarm onto the backplate.
5. Push down red tab and insert 9V battery.
Note the fitting will not close without a battery installed and attempting to do so will damage the fitting.
6. Close the fitting and turn on the mains power.
7. Check Green and Red LEDs
 - Green indicates power to the fitting
 - Red flash every 40 seconds indicates the fitting is working properly.
8. To finish installation, check the fitting is working by pressing the Test/Hush button.
9. Once all building work is complete and the property is occupied, remove the dust cover.
Doing so beforehand will damage the fitting and void the warranty.



Testing

The fitting must be tested weekly by pressing the Test button on the cover. This will sound the alarm if the fitting is working correctly. If the alarm does not sound the fitting has faulty batteries or other faults.

To test interconnected alarms, the button must be pressed and held for 6 seconds. Once the test button is released the alarm will stop and all interconnected alarms will sound for a further 3-4 seconds, to show that they are connected and working properly.

You must never use an open flame to test your alarm as this could damage the alarm or ignite combustible materials.

Operation

Alarm Condition

When the alarms are triggered, they will follow the patterns below

Triggered Alarm	Flash	X	X	X	X
	Sound	—	—	—	
Interconnected Alarms	Flash	XX	XX	XX	
	Sound	••	••	••	

Key	
—	Long beep
••	2x short beep
X	Single flash
XX	Double flash
	Pause

Normal Condition

In normal operation the green LED will always be on and the red LED flashes every 40 seconds.

Power Fault Indication Condition

If the fitting is wired incorrectly, or another power fault occurs, the fitting will chirp and flash red every 2 seconds.

In this scenario, turn off the mains power immediately. Check all wiring and replace any damaged by incorrect wiring fittings.

Low Battery Condition

The smoke alarm must be installed with a 9V battery with enough capacity to operate correctly. This battery should last at least 5 years under normal operation when connected to mains power.

If the alarm enters low battery mode, the alarm will flash red and chirp every 40 seconds. You must then replace the battery immediately, by removing the old battery, pushing down the red tab and inserting a new 9V alkaline battery.

The smoke alarm will continue to warn of low battery for approximately 7 days, and failure to change the battery may result in insufficient power during a real fire.

Sensor Fault Indication Condition

When a fault is detected with the alarm, the fitting will chirp every 40 seconds.

Alarm Silence

If your alarm emits a full alarm signal when you are not testing the fitting, you are being warned of a potentially dangerous situation.

Once you have established that there is no ongoing emergency, you can use the alarm silence function on the triggered alarm identified using Flash & Sound patterns shown in Operations section.

Do not block the vents or try to disable the alarm in any way, as this will remove your protection.

If the alarm silence has been used after a false trigger, the alarm will return to its normal operation within 8 minutes. During that 8 minutes the red light will flash every 8 seconds.

Product Maintenance

In addition to testing the product weekly, the fitting must also be cleaned monthly in order to remove dust, dirt and debris. This cleaning can be achieved by using a vacuum cleaner with a soft brush on all sides and covers of the smoke alarm.

Do not attempt to remove the casing to clean inside as doing so will void the warranty.

To avoid contamination, the dust cover must remain on the fitting until all building work (including painting) is complete. Removing the cover early could lead to damage to the fitting, causing false triggers and voiding the warranty.