

UK Full Manual

General Information

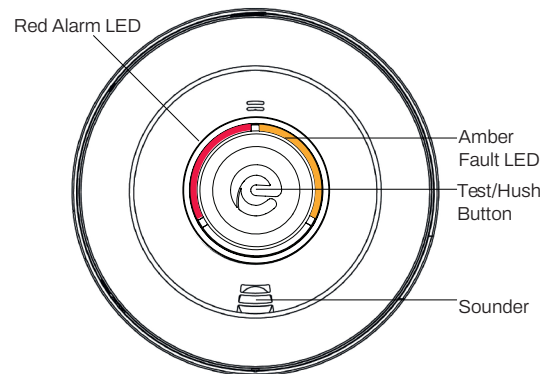
Read the instructions before commencing installation. The user is to retain the instructions for future reference.

- Espire Alarms have been designed and developed for fixed residential installation and use.
- After installation the Alarm is to be tested weekly: Press and hold the Test/ Hush button for at least 10 seconds to ensure the Alarm sounds and all interconnected Alarms activate.

Product Description

- ES1SL Optical Smoke Alarm Powered by a Sealed 10 Year Lithium Battery
- ES1HL Heat Alarm Powered by a Sealed 10 Year Lithium Battery
- ES1MUL Optical Smoke and Heat Multi-Sensor Alarm Powered by a Sealed 10 Year Lithium Battery

The Alarm head must be fitted onto the supplied Lock-In Base.
The RF-Link (ES1RF2) module is supplied with the Alarm or available separately.
The Alarm battery is sealed and non-replaceable.



Recommended Alarm Location

Alarm locations are to follow guidance provided in British Standard; BS 5839-6:2019.

A Fire Risk Assessment is used to determine the Grade and Category of system required;

LD1 OPTIMUM PROTECTION

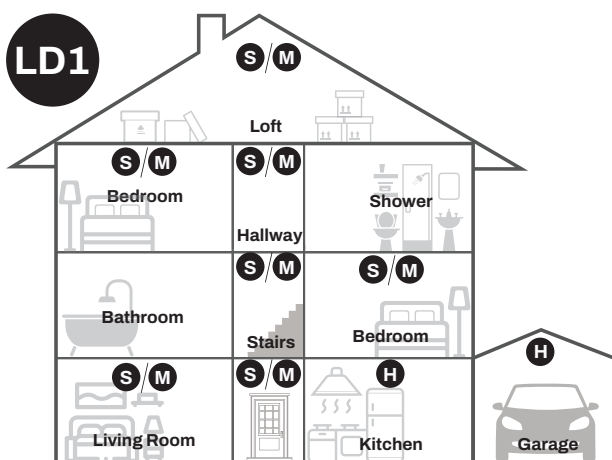
Appropriate where occupants are likely to be vulnerable (e.g the elderly.) In addition to LD3 recommendations, Alarms are installed in all circulation areas and all rooms or areas in which fire might start. Excludes toilets, bathrooms or shower rooms.

LD2 BASIC PROTECTION

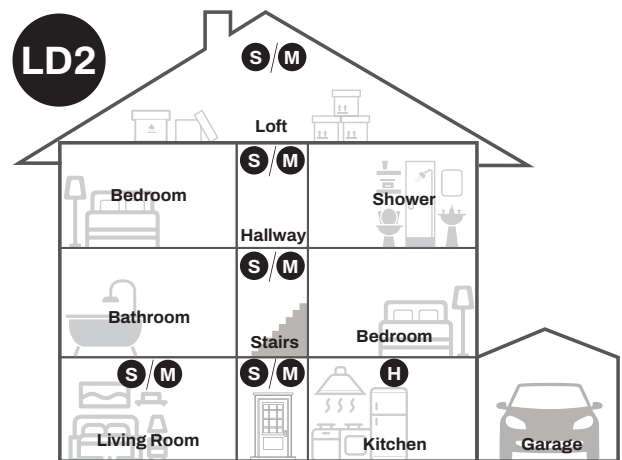
In addition to the recommendations for an LD3 system, additional Alarms are installed in certain rooms determined by the risk assessment. For example; a heat Alarm is installed in each kitchen, or a smoke Alarm installed in the living room. Excludes toilets, bathrooms or shower rooms.

LD3 MINIMUM PROTECTION

Alarms installed in all hallways, stairways and circulation areas that form part of the escape routes. All Alarms are to be interconnected.



Multi Storey Dwelling Example



Multi Storey Dwelling Example

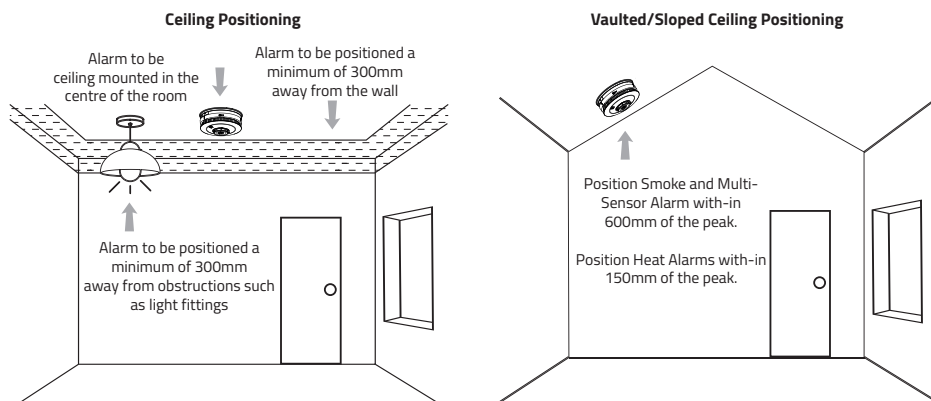
Diagram Key

- S** ES1SL Optical Smoke Alarm **H** ES1HL Heat Alarm **M** ES1MUL Multi-Sensor Alarm

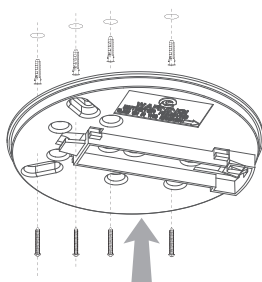
Alarm Installation

Alarm Installations are to follow guidance provided in British Standard; BS 5839-6:2019.

- For optimum performance the preferred location for the Alarm is a central ceiling position, and at least 300mm from walls and any objects such as light fittings. It should be mounted on a flat surface, with no obstructions such as existing pipes or wiring
- Avoid the following locations: sources of high humidity, condensation or steam, such as bathrooms and shower rooms; extreme temperatures exceeding 40°C or below 0°C; close to sources of heat or cool air which cause sudden temperature fluctuations.

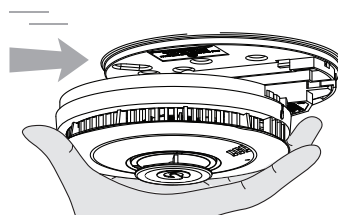


Alarm Installation



Step 1.

Using the base, mark the desired mounting holes, drill and re-align the base, screwing into place. Multiple mounting holes are available for retro fit installations.

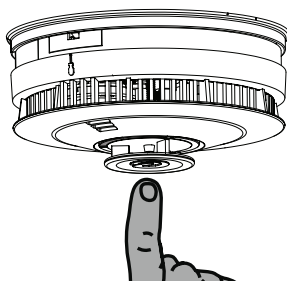


Step 2.

carefully line up the Alarm to the base and slide on until secured and a 'click' is heard.

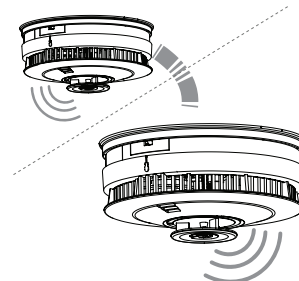
Alarm Testing

Test the Alarm after installation, and weekly thereafter.



Step 1.

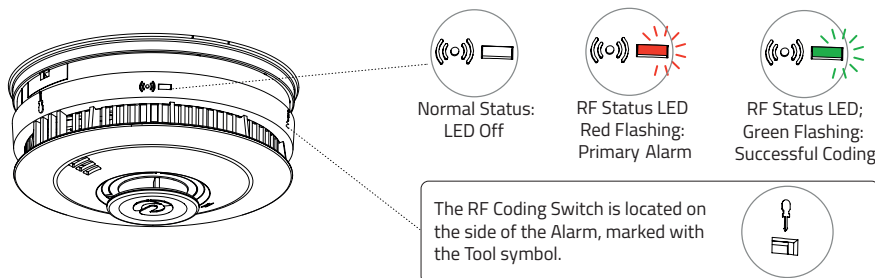
Press and hold the Test/Hush button for a minimum of 10 seconds.



The Alarm will sound and the Red LED will flash.

RF-Link Introduction

Up to 28 Alarms can be interconnected wirelessly via the RF-Link function. Ensure the Alarms have been fitted with the RF-Link module. Prior to RF Coding, ensure that all system Alarms are functioning independently.

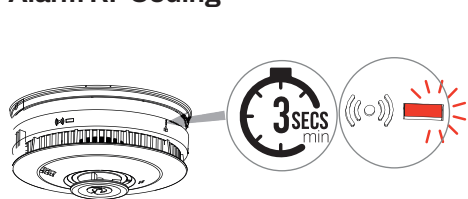


RF-Link Coding

• As default the RF -Link modules are universally coded together. It is important to carry out the Alarm RF coding procedure to ensure the system operates independently from other nearby Espire Alarm systems.

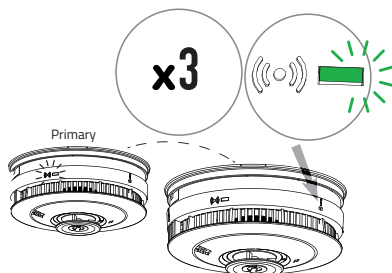
• The first Alarm that enters RF Coding Mode will be assigned as the 'PRIMARY', all other Alarms will be assigned as a 'SECONDARY'. It is important to mark the PRIMARY Alarm with the label provided for future servicing of the system.

Alarm RF Coding



Step 1.

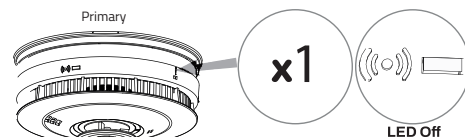
Using the supplied pairing tool press and hold the RF Coding Switch on one of the system's Alarms for a minimum of 3 seconds and release when the RF Status LED flashes Red.



Step 2.

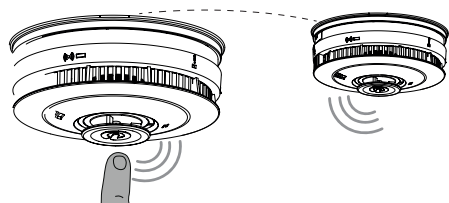
While the PRIMARY Alarm is in coding mode, at the next Alarm press the RF Coding Switch 3 times and the RF Status LED will turn Green to confirm successful coding. Repeat the process on the remaining Alarms.

Note: RF Coding Mode will be active for 30 minutes before auto time out.



Step 3.

Once all the Alarms have been coded to the PRIMARY Alarm, return to the PRIMARY Alarm and single press the RF Coding Switch and the RF Status LED will stop flashing. RF Coding Mode has now ended.



Step 4.

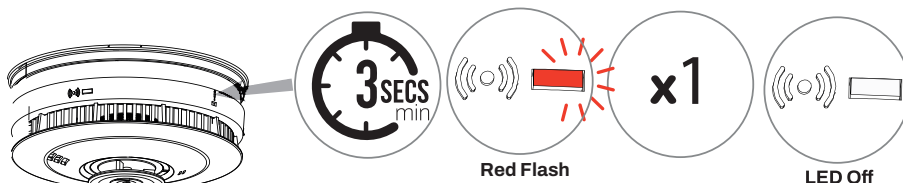
After coding is completed, test each individual Alarm and check that all interconnected Alarms sound.

Note: There may be up to a 10 second delay for the coded Alarms to respond after pressing the Test/Hush button.

Delete an RF-Link Coded Alarm

Press and hold the RF Coding Switch for 3 seconds and release when the RF Coding Status LED flashes Red.

Single press the RF Coding Switch to confirm deletion, the RF Status LED will stop flashing.



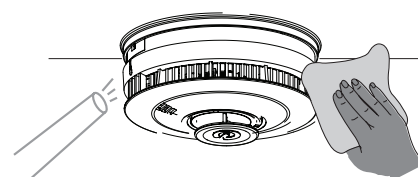
Important: If the PRIMARY Alarm is deleted, the system will require re-coding.

Alternative RF-Link System Setup

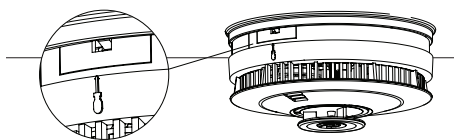
- Hybrid System; Systems that incorporate hardwired and RF-Link Alarms, consult the RF-Link module manual (ES1RF2) for limitations and further guidance.
- Remote Control System; Systems that incorporate the Espire Remote Control, consult the Remote Control manual (ES1REM), for limitations and further guidance.

Alarm Maintenance and Cleaning

To avoid false alarms, clean the Alarm regularly to avoid debris build up from dust and insects. In dusty areas it may be necessary to clean the Alarm more frequently. Use a vacuum to remove dust build up and clean with a damp cloth, do not use cleaning products. Dry the Alarm thoroughly after cleaning.

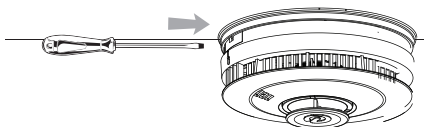


Alarm Removal



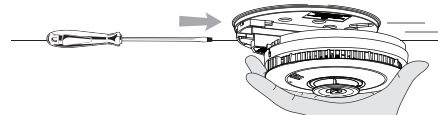
Step 1.

Locate the screwdriver symbol on the side of the Alarm.



Step 2.

Insert a flathead screwdriver horizontally into the centre of the release lever.



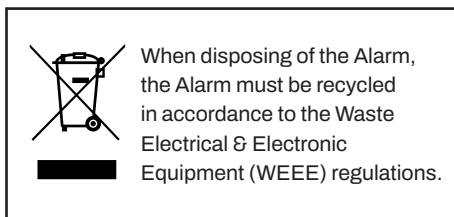
Step 3.

With the screwdriver in place, push away the lower half of the Alarm from the screwdriver.



Step 4.

Hold the lower half of the Alarm and remove from the base.



Alarm Status Indication

Normal Mode

Green LED	Amber LED	Red LED	Sounder	Description
				No indication LEDs will be visible unless there is a an Alarm activation or fault alert.


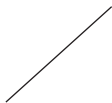

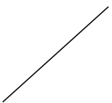
Alarm Activation

Green LED	Amber LED	Red LED	Sounder	Description
				When the Red LED flashes and the sounder is audible the Alarm has been activated. Warning: If there is any doubt about the cause of an Alarm activation assume it was caused by an actual fire and evacuate immediately.
				An interconnected Alarm has been activated.

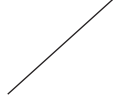
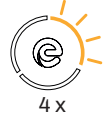
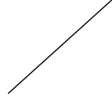

Memory Mode

Green LED	Amber LED	Red LED	Sounder	Description
		 2 x 40 sec		(i) The Red LED flashes twice every 40 seconds to indicate the Alarm has stored an activation in the memory. (ii) Memory function assists identification of Alarms that have been activated. (iii) The memory will automatically clear after 24 hours of the activation or press and hold the 'Test/Hush' button until the Red LED flashes twice and the Alarm sounds twice.

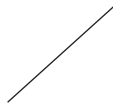

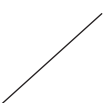




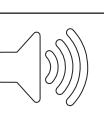


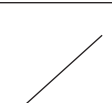

Hush Mode

Green LED	Amber LED	Red LED	Sounder	Description
		 1 x 8 sec		(i) During an Alarm activation if the 'Test/Hush' button is pressed the Alarm will enter Hush mode for 10 minutes before returning automatically to normal state. (ii) If the Red LED flashes every 8 seconds; the Alarm is in Hush mode and the sensor remains in activated state.

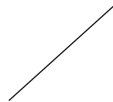

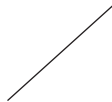

Contamination Mode (Smoke Sensor Only)

Green LED	Amber LED	Red LED	Sounder	Description
	 4 x		 4 x	(i) If the 'Test/Hush' button is pressed and the Amber LED flashes with the Alarm sounding four times; this indicates the Alarm's optical smoke chamber is contaminated. Dust is one of the main causes. (ii) Alarm cleaning and maintenance must be completed regularly.

Fault Mode

Green LED	Amber LED	Red LED	Sounder	Fault	Solution	Description
	 1 x 40 sec		 1 x 40 sec	Low Battery	Replace Alarm	If the battery is depleted the Alarm will sound and the Amber LED flashes once every 40 seconds.
	 2 x 40 sec		 2 x 40 sec	Alarm Fault	Replace Alarm	The Alarm performs automatic tests. If the Alarm detects an internal error the Alarm will sound and the Amber LED flashes twice every 40 seconds.
	 3 x 40 sec		 3 x 40 sec	End of Life	Replace Alarm	After the Alarm passes the 10th year of installation it performs an End Of Life cycle indicating that the Alarm is recommended to be replaced. The Alarm will sound and the Amber LED flashes three times every 40 seconds

Fault Hush Mode

Green LED	Amber LED	Red LED	Sounder	Description
	 40 sec			(i) The Amber LED flashes every 40 seconds to indicate the Alarm is in Fault Hush mode for 12 hours (ii) Low battery fault and End of life fault can be hushed more than once. Sensor fault can only be hushed once

Product Safety

- If there is any doubt about the cause of an Alarm activation, assume it was caused by an actual fire and evacuate immediately.
- Read and retain all instructions.
- Test Alarms regularly.
- Ensure emergency escape plans are in place (Contact the local fire prevention officer for more information).
- Do not paint or cover the Alarm.
- Do not attempt to repair the Alarm.
- Do not dispose of the Alarm in a fire.
- Do not expose the Alarm to wet and/or humid conditions, indoor use only.
- The Alarm shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the Alarm.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine or the like.
- Any remote silencing feature shall only be used in line of sight of the Alarm

Product Installation

- Ensure the Alarm cover that protects the Alarm has been removed only when the site location has been cleaned thoroughly. The Alarm will not function correctly with the cover fitted.

Product Service

- If an Alarm fails to function as per the instructions contact the distributor.
- If advised to return the Alarm, ensure the base is disconnected as the Test/Hush button will still be active. Complete all information that has been requested and return in a securely packaged shipment.
- The Alarm is covered by a 5-year warranty, the warranty period starts from the date an authorised distributor purchases the Alarm.
- The warranty covers defects arising from manufacturing processes. The warranty does not cover damage accidental or otherwise, contamination and unauthorised repair.

Product Limitations

- Espire Alarms have been designed and developed for fixed residential installation and use.
- Alarms should be installed by a competent person and sited according to relevant standards.
- The Alarm will not work if a battery supply is not present.
- The Alarm may not be heard for a number of reasons, for example; Alarm is positioned too far away from the occupants, occupants are impaired or high background noise. Interconnecting a number of Alarms improves the chances of hearing an Alarm.
- The Alarm may not detect every type of fire.
- Replace the Alarm by the date specified on the product or within 10 years of installation, whichever is first.

Product Specification

- Visit www.espireuk.com for the latest product data.

