espire ES1RB Backup Battery with Optional RF-Link Module User Guide

Contents

espire ES1RB Backup Battery with Optional RF-Link Module

Quick Start Guide

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

- All guidance in the following document should follow the recommendations of BS 5839-6 and BS EN 50292:2023
- Espire Alarm accessories have been designed and developed for fixed residential installation and use.
- The Alarm Relay is required to be permanently wired to a 230V mains electrical supply by a qualified electrician in accordance with the local wiring regulations.
- Before commencing electrical work, ensure the supply of the system has been safely isolated with all appropriate steps taken, if you are unsure please consult a competent electrician.
- After installation, the Relay base and connected devices are to be tested weekly.

Product Description

ES1RB Relay Base Powered by Mains Supply with Backup Battery

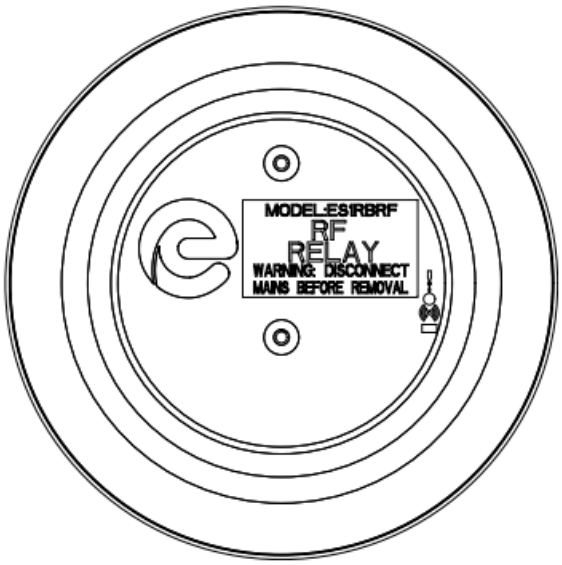
- The Relay Output is rated at 8 Amps (resistive) @ 250VAC.
- The Relay State is selectable from Pulsed or Continuous.
- The pulsed relay state will switch when an alarm condition is received and will automatically switch to its previous state after 5 seconds.
- The rechargeable backup battery is sealed and non-replaceable.

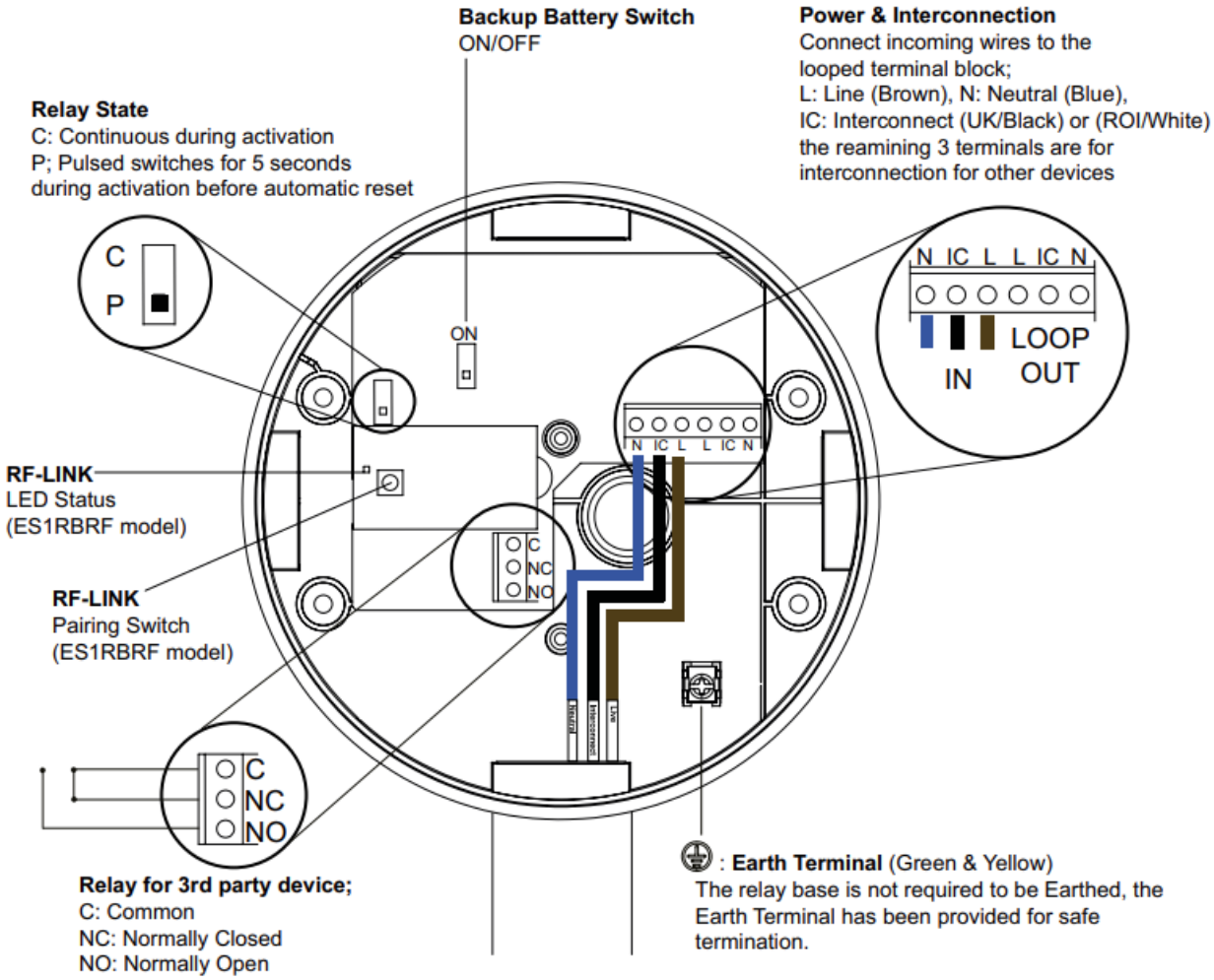
ES1RBRF Relay Base Powered by Mains Supply with Backup Battery & RF-Link Module

- The Accessory includes an RF-Link module for RF coding to other Espire Alarms.
- The Relay Output is rated at 8 Amps (resistive) @ 250VAC.
- The Relay State is selectable from Pulsed or Continuous.
- The pulsed relay state will switch when an alarm condition is received and will automatically switch to its

previous state after 5 seconds.

- The rechargeable backup battery is sealed and non-replaceable.
- The ES1RBRF is an RF-Link receiver that triggers the relay upon activation.



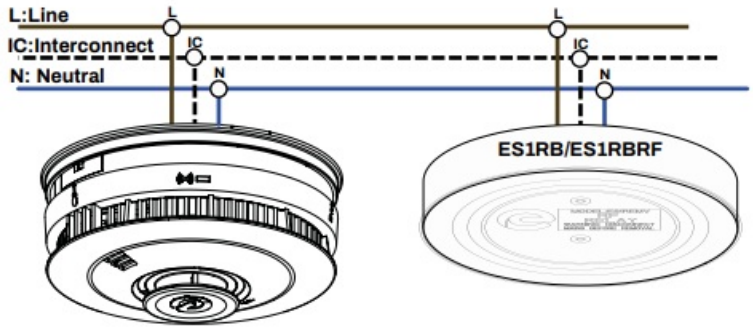


Installation

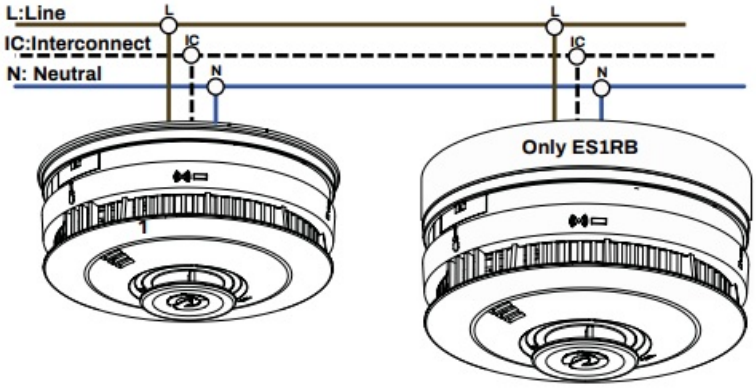
1. Remove the cover of the Relay Base
2. Identify the most suitable cable knock out to suit the application (surface or rear cable entry) and remove the knock-out
3. Mount the Relay base on a secure flat surface using the mounting holes to fix into place

4. Pull through the system cables
5. If the rear knock-out is being used, seal around the system cables to protect against any ingress that may affect the performance of the relay base and/or the mounted Espire alarm.

Wiring Connections and Configuration



Standalone Relay Base with Cover



Relay Base Mounted Underside of Alarm

1. Isolate the mains before commencing any electrical work.
2. Connect the incoming mains supply to the looped terminal block on the relay base; L: Line (Brown), N: Neutral (Blue), IC: Interconnect (UK/Black) or (ROI/White). The supply will be taken from another Alarm in series or from the Alarm mounted on top of the relay, replacing the relay's cover. The ES1RBRF should not be used to mount Espire alarms. The Relay Base is not required to be earthed, the Earth terminal has been provided for safe termination for any incoming earth wire. ES1RBRF may use an independent supply.
3. Connect the Auxiliary device to the relay terminals located on the Relay Base as required; Normally Open/ Normally Closed & Common. The contacts are rated at AC250V @ 8Amps (resistive).
4. On the PCB of the Relay Base, switch the relay state to the desired output.
5. On the PCB of the Relay Bas,e switch the Backup battery power toggle to ON
6. Fit the cover of the Relay Base or the Alarm to replace the cover
   WARNING: Failure to leave the relay base uncovered exposes users to fire & shock hazards.
7. Apply the mains power to the Relay Base

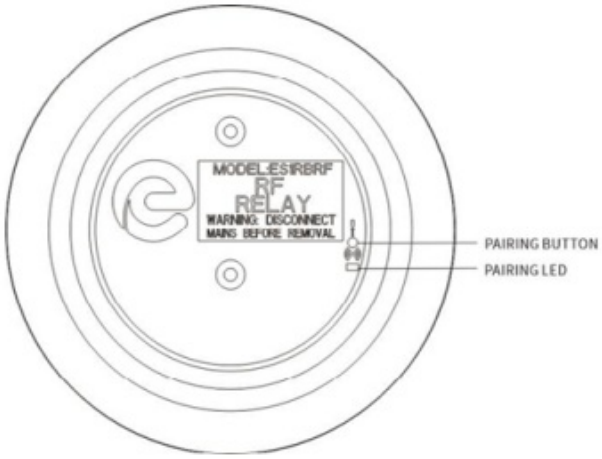
Testing your alarm system
It is recommended to test your system after installation and weekly thereafter. When checking the alarm system, it is also recommended to test the relay base: Press a connected alarm's Test button to ensure that;

- The relay changes state

- The 3rd party system operates as required.

Backup Battery Testing
Ensure that the Backup Battery in the Relay Base is switched on, charged and capable of powering the Relay Base. This should be done after the initial installation and periodically. Isolate the mains supply, and check that the relay operates the 3rd party system. If the tests are successful, reconnect the mains supply.

RF-Link Introduction for model ES1RBRF
Up to 28 devices 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 correctly wired, powered, and functioning independently. It is important to note which Alarm is the ‘PRIMARY’.



RF-Link Coding

- Identify which Espire Alarm has been designated as the ‘PRIMARY’ device within the RF-Link system
- Put ‘PRIMARY’ Alarm into coding mode. Refer to the relevant alarm’s manual
- When power is applied to the Relay Base, the RF Coding LED will flash Green, Blue, and Red once as part of its boot sequence
- Press and hold the RF coding button until the RF Coding LED turns Red
- Once the LED turns Red, release the RF Coding button, and the RED LED will flash twice
- If coding has been successful, the LED will turn to Green and exit coding mode
- Return to the Espire PRIMARY Alarm and exit coding mode

Note: If an alarm signal is received, the LED will turn RED; once the alarm signal stops, the LED will turn off

RF-Link Testing

- Check the Relay Base is switching the 3rd party device weekly.
- Ensure the Relay Base is powered by the mains supply so as to not deplete the Backup Battery.
- On a coded Alarm, press and hold the Test/Hush button for a minimum of 10 seconds; this will activate the Alarm but also the Relay Base.
- Up to 10 seconds should be allowed from the Relay Base receiving the signal to switching the 3rd party device
- It is also recommended that the function is tested when the Relay Base is powered from the battery only. Ensure that the Mains supply is reapplied after testing.

RF-Link Coding Reset

- On the Relay Base, Press and hold the coding button until the LED flashes blue, it will the flash Blue a further 4 times.
- This will reset the coding function to default

For additional product and installation instructions, scan the applicable QR code

UK ROI

- When disposing of this product, it must be recycled in accordance with the Waste Electrical & Electronic Equipment (WEEE) regulations.

FAQs

Q: Can the relay state be changed from Pulsed to Continuous?
A: Yes, the relay state is selectable between Pulsed and Continuous modes.

Q: Is the backup battery replaceable?
A: The backup battery is sealed and non-replaceable.

Q: What is the purpose of the RF-Link module in the ES1RBRF model?
A: The RF-Link module allows RF coding to other Espire Alarms and triggers the relay upon activation.

Documents / Resources

	espire ES1RB Backup Battery with Optional RF-Link Module [pdf] User Guide ES1RB, ES1RB Backup Battery with Optional RF-Link Module, Backup Battery with Optional RF-Link Module, Battery with Optional RF-Link Module, Optional RF-Link Module, RF-Link Module

References

- User Manual