



# Application Expert

Fire & CO Protection

an  Company





# Tricky Application?

## Aico have the solution.

**If you've ever been faced with a difficult fire alarm application, you'll know how time consuming it can be to come up with a solution.**

Application Expert will guide you through different applications and the simple solutions to them.

A large number of domestic applications are covered, each split into colour-coded sections for easy reference.

For each individual solution, we've split the information into the parts required, siting requirements, wiring, House-Coding (set up) and testing and commissioning.

# Contents

<b>1</b>	<b>Triggering a Smoke/Heat Alarm System from an external device</b>	
	Triggering Smoke/Heat Alarms from a Sprinkler System	8-9
<b>2</b>	<b>Activating an external device (Volt-Free Connection) from a Smoke/Heat Alarm</b>	
	Activating a Fire Alarm/Burglar Alarm from a Smoke/Heat Alarm System	12-13
	Activating a Warden Call System from a Smoke/Heat Alarm System	14-15
<b>3</b>	<b>Activating an external device from a Smoke/Heat Alarm</b>	
	Activating a Flashing Strobe from a Smoke/Heat Alarm System	18-19
	Activating a Flashing Strobe from one specific Alarm within a Smoke/Heat Alarm System	20-21
	Activating an External Sounder from a Smoke/Heat Alarm System	22-23
	Activating an Automatic Opening Vent (AOV) from a Smoke/Heat Alarm System	24-25
	Activating a Magnetic Door Holder from a Smoke/Heat Alarm System	26-27
<b>4</b>	<b>Alarm systems for the Hearing Impaired</b>	
	Adding an Alarm for the Hearing Impaired to a Smoke/Heat Alarm System	30-31
<b>5</b>	<b>Adding alarms to an existing system</b>	
	Adding alarms to an existing hard-wired system	34-35
<b>6</b>	<b>Alarm Systems for Houses in Multiple Occupation (HMOs) and Flats</b>	
	Creating separate alarm systems for the communal area and individual dwellings	38-39
	Activating a Smoke/Heat Alarm System in a flat above a shop	40-41
<b>7</b>	<b>Adding Control Switches and Call Points</b>	
	Adding a RadiolINK Alarm Controller to a Smoke/Heat Alarm System	44-45
	Adding a Manual Call Point to a Smoke/Heat Alarm System	46-47

<b>8</b>	<b>Carbon Monoxide (CO) Alarms</b>	
	Linking a Carbon Monoxide (CO) Alarm to a Smoke/Heat Alarm System	50-51
	Activating a Gas Shut-off Valve from a Carbon Monoxide (CO) Alarm	52-53
<b>9</b>	<b>AudioLINK+</b>	
	Extracting An AudioLINK+ Report From An Alarm	56-57
<b>10</b>	<b>Connected Home</b>	
	Installing a Gateway	60-61
	Connecting Smoke, Heat or CO Alarms to a Gateway	62-63
	Connecting Environmental Sensors to a Gateway	64-65
	Connecting an Alarm Controller to a Gateway	66-67
	Triggering Smoke/Heat Alarms from a Sprinkler System and connecting to a Gateway	68-69
	Activating an External Device from a Smoke/Heat Alarm System Connected to a Gateway	70-71
	Adding an Alarm For The Hearing Impaired to a Smoke/Heat Alarm System Connected To A Gateway	72-73

# How to use Application Expert

## COLOUR CODED SECTIONS

The book is divided into colour coded sections, with each section covering a different application type.



**1** Triggering a Smoke/Heat Alarm System from an external device

**2** Activating an external device (Volt-Free Connection) from a Smoke/Heat Alarm

**3** Activating an external device from a Smoke/Heat Alarm

**4** Alarm systems for the Hearing Impaired

**5** Adding alarms to an existing system

**6** Alarm Systems for Houses in Multiple Occupation (HMOs) and Flats

**7** Adding Control Switches and Call Points

**8** Carbon Monoxide (CO) Alarms

**9** AudioLINK+

**10** Connected Home

# PAGE LAYOUT

## APPLICATION DESCRIPTION

A description of the application and what the solution will achieve.

## OVERVIEW

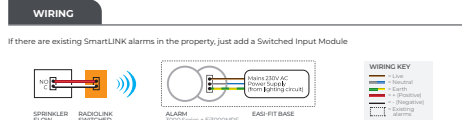
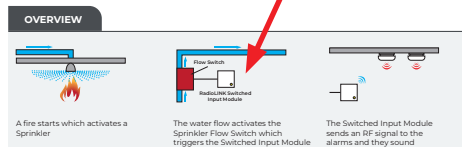
A visual overview of how the solution works.

## PARTS REQUIRED

The parts you need for the solution.

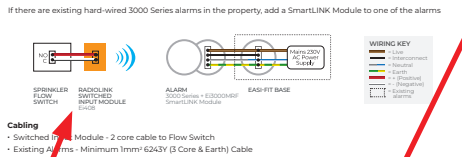
### Triggering Smoke/Heat Alarms from a Sprinkler System

Sprinkler systems are increasingly being used in properties and are designed to suppress a fire and increase the occupant's time to escape. However, if there is no alarm indicating when the sprinklers are activated the occupants may be unaware of the fire. To get round this, Smoke/Heat Alarms can be linked to the sprinklers (via a Flow Switch) so that they sound if the sprinklers are activated.



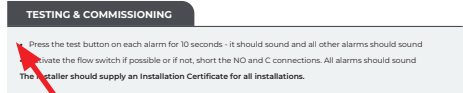
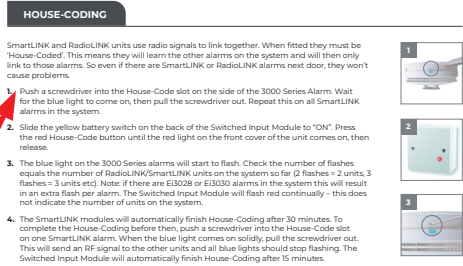
**Cabling**

- Switched Input Module - 2 core cable to Flow Switch
- Existing Alarms - Minimum 1mm<sup>2</sup> 6243V (2 Core & Earth) Cable



**Cabling**

- Switched Input Module - 2 core cable to Flow Switch
- Existing Alarms - Minimum 1mm<sup>2</sup> 6243V (3 Core & Earth) Cable



## WIRING

Comprehensive wiring diagrams detailing the wiring of all products.

## HOUSE-CODING

RadioLINK products need to be uniquely 'House Coded' - this will show you the simple step-by-step process to follow.

## TESTING & COMMISSIONING

How to test the system and final commissioning requirements.









# Triggering a Smoke/Heat Alarm System from an external device

This section covers connecting an external device to a Smoke/Heat Alarm System so when the external device triggers, the alarms sound.

---

Triggering Smoke/Heat Alarms from a Sprinkler System

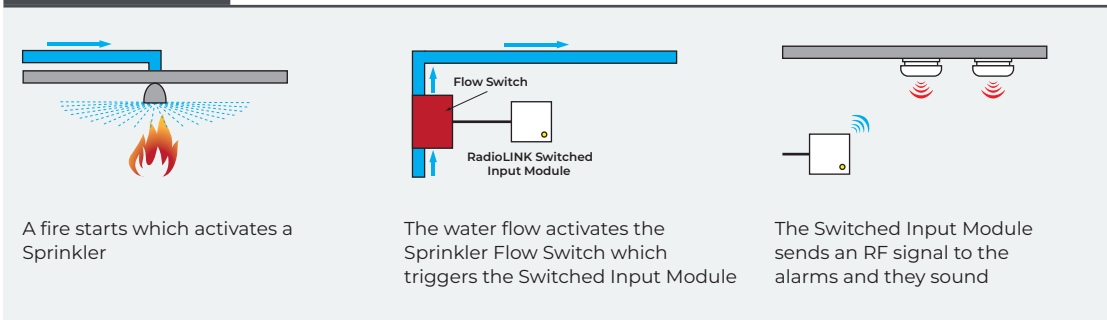
8-9

# Triggering Smoke/Heat Alarms from a Sprinkler System

Sprinkler systems are increasingly being used in properties and are designed to suppress a fire and increase the occupant's time to escape. However, if there is no alarm indicating when the sprinklers are activated the occupants may be unaware of the fire. To get round this, Smoke/Heat Alarms can be linked to the sprinklers (via a Flow Switch) so that they sound if the sprinklers are activated.

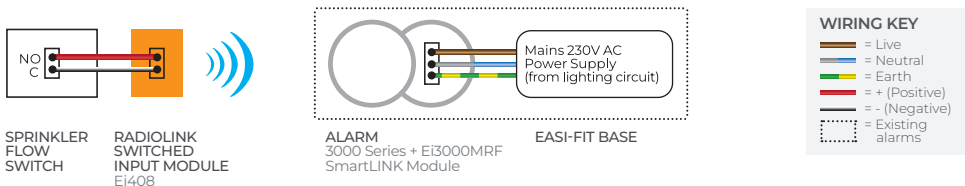


## OVERVIEW



## WIRING

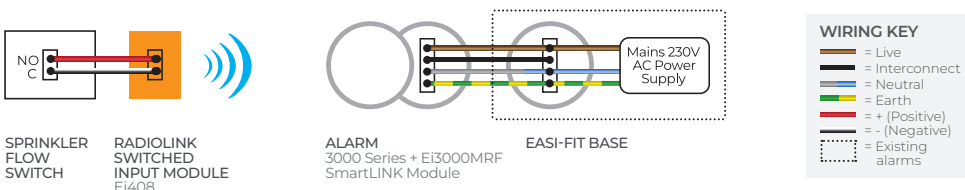
If there are existing SmartLINK alarms in the property, just add a Switched Input Module



### Cabling

- Switched Input Module - 2 core cable to Flow Switch
- Existing Alarms - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms



### Cabling

- Switched Input Module - 2 core cable to Flow Switch
- Existing Alarms - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable

## PARTS REQUIRED



1 x RadioLINK Switched Input Module

Ask for

Ei408



1 x Ei3000MRF SmartLINK module within a 3000 Series Alarm

Ask for

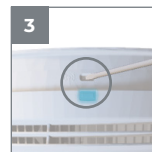
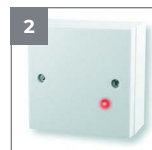
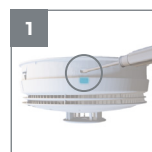
3000 Series Alarm + Ei3000MRF

1 x Sprinkler System Flow Switch with Volt-Free Output Contacts (NO and C)

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK alarms in the system.
2. Slide the yellow battery switch on the back of the Switched Input Module to "ON". Press the red House-Code button until the red light on the front cover of the unit comes on, then release.
3. The blue light on the 3000 Series alarms will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units on the system so far (2 flashes = 2 units, 3 flashes = 3 units etc). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm. The Switched Input Module will flash red continually – this does not indicate the number of units on the system.
4. The SmartLINK modules will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on one SmartLINK alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights should stop flashing. The Switched Input Module will automatically finish House-Coding after 15 minutes.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound
- Activate the flow switch if possible or if not, short the NO and C connections. All alarms should sound

**The installer should supply an Installation Certificate for all installations.**

## Notes



## Activating an external device (Volt-Free Connection) from a Smoke/Heat Alarm

This section covers connecting a Smoke/Heat Alarm System to an external device with a Volt-Free connection, so when the alarms are triggered, it activates the external device.

---

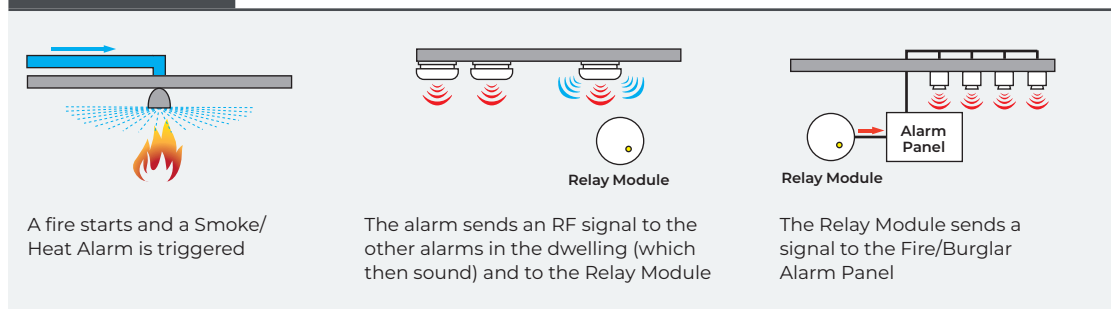
Activating a Fire Alarm/Burglar Alarm from a Smoke/Heat Alarm System	12-13
Activating a Warden Call System from a Smoke/Heat Alarm System	14-15

# Activating a Fire Alarm/Burglar Alarm from a Smoke/Heat Alarm System

Fire Alarm Panel Systems are commonly used in large Houses in Multiple Occupation (HMOs) and blocks of flats, with separate Smoke/Heat Alarms installed in each flat. Burglar Alarm Systems are commonly used in domestic properties and will trigger a sounder and/or call centre if the property is broken into. It is possible to connect the Smoke/Heat Alarms so that if the alarms are triggered, they will activate the Fire Alarm Panel (to trigger the sounders) or the Burglar Alarm Panel (to trigger an external sounder and/or call centre).



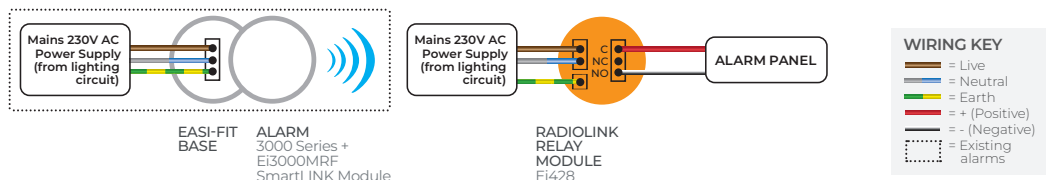
## OVERVIEW



## WIRING

**NOTE:** Set relay yellow sliding switch to P (pulse) to switch external device for a single 4 second interval. Set switch to C (constant) to constantly switch the external device until the alarms stop activating.

If there are existing SmartLINK alarms in the property, just add a Relay Module

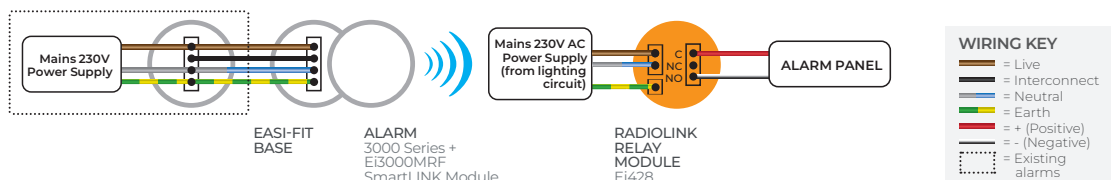


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Panel - 2 core Low Voltage Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms

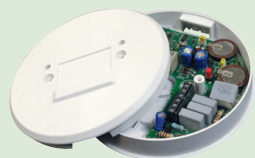


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Panel - 2 core Low voltage Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

## PARTS REQUIRED



1 x RadioLINK Relay Module

Ask for

Ei428



Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

Ask for

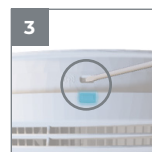
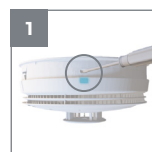
3000 Series Alarm + Ei3000MRF

1 x Fire Alarm Panel or  
Burglar Alarm Panel  
with Volt-Free Input  
contacts (NO and C)

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Take off the cover of the relay and slide the yellow battery switch to "ON". Refit the cover and use a screwdriver to press the House-Code button through the hole in the cover. The green light will now turn red - pull the screwdriver out.
3. The blue light on the 3000 Series alarms and red light on the Relay Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Modules and Relay Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights (and red light on the Relay) should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Relay should trigger the Panel.

**The installer should supply an Installation Certificate for all installations.**

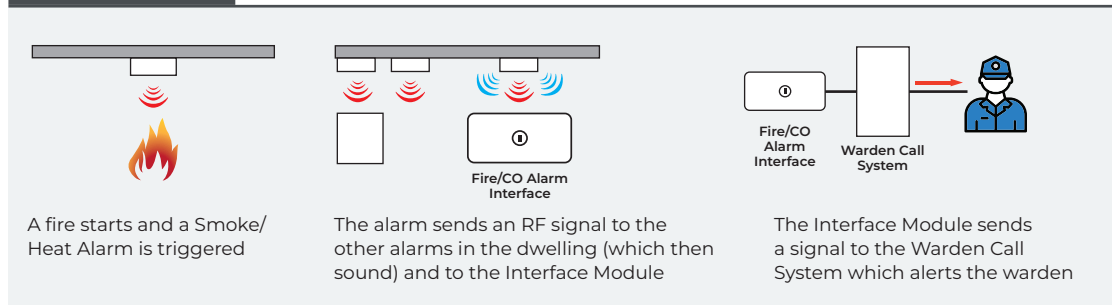


# Activating a **Warden Call System** from a Smoke/Heat Alarm System

Warden Call Systems are commonly used in properties where the occupants are elderly or infirm. They are designed to send a signal to the warden if there is a problem. To increase safety the Smoke/Heat Alarms can be linked to the Warden Call System so that if the alarms are triggered, they alert the warden.

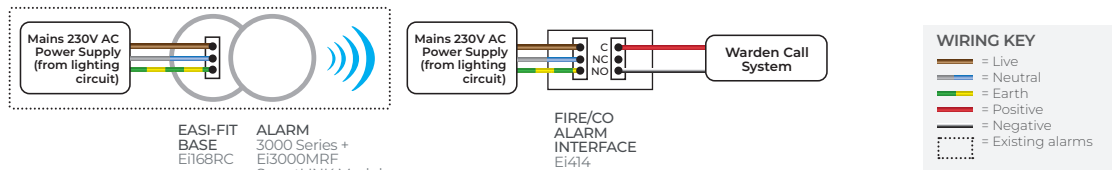


## OVERVIEW



## WIRING

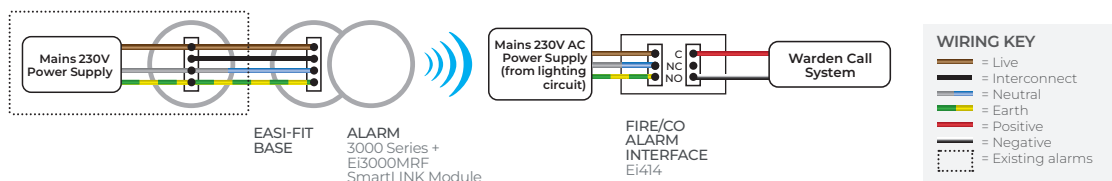
If there are existing SmartLINK alarms in the property, just add a Fire/CO Alarm Interface



### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Fire/CO Alarm Interface - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm Interface To Warden Call – 2 Core Low Voltage Cable (per relay output as required)

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms



### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Fire/CO Alarm Interface - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm Interface To Warden Call – 2 Core Low Voltage Cable (per relay output as required)

## PARTS REQUIRED



1 x Fire/CO Alarm Interface

Ask for

Ei414



Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

Ask for

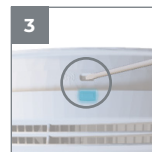
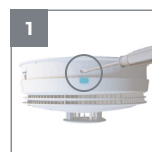
3000 Series Alarm + Ei3000MRF

1 x Fire Alarm Panel or  
Burglar Alarm Panel  
with Volt-Free Input  
contacts (NO and C)

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Take the cover off the Ei414 and slide the battery switch to "ON". Refit the cover and use a screwdriver to press the House-Code button through the hole in the bottom face of the Ei414. Wait for the blue light to come on, then pull the screwdriver out.
3. The blue lights on the SmartLINK Alarms and Interface Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Modules and Interface Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screw driver out. This will send an RF signal to the other units and all blue lights should stop flashing.



## TESTING & COMMISSIONING

- Turn the key switch on the front of the Interface Module to 'TEST'. Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Interface Module should trigger the Panel. Once the test is complete, turn the key switch on the front of the Interface Module to 'ON'.

**Note:** Full functionality of the key switch can only be achieved with a fully SmartLINK/RadioLINK+ system.

**The installer should supply an Installation Certificate for all installations.**

## Notes

## Activating an external device from a Smoke/Heat Alarm

This section covers connecting a Smoke/Heat Alarm System to an external device, so when the alarms are triggered, it activates the external device.

---

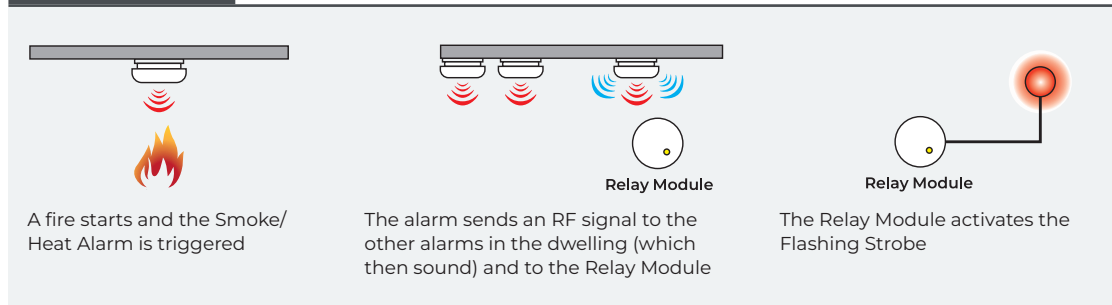
Activating a Flashing Strobe from a Smoke/Heat Alarm System	18-19
Activating a Flashing Strobe from one specific Alarm within a Smoke/Heat Alarm System	20-21
Activating an External Sounder from a Smoke/Heat Alarm System	22-23
Activating an Automatic Opening Vent (AOV) from a Smoke/Heat Alarm System	24-25
Activating a Magnetic Door Holder from a Smoke/Heat Alarm System	26-27

# Activating a **Flashing Strobe** from a Smoke/Heat Alarm System

Flashing Strobes are commonly used to give a visual indication if there is a problem. For increased safety, the Smoke/Heat Alarms can be linked to the Strobe so that if the alarms are triggered, the Strobe activates.

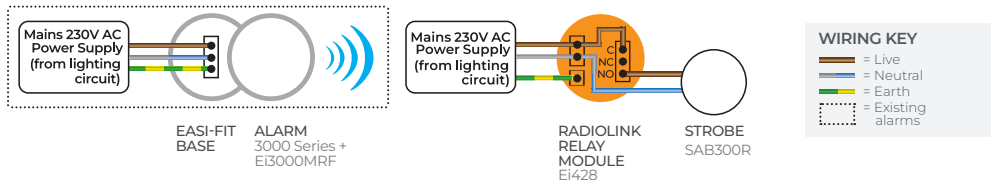


## OVERVIEW



## WIRING

If there are existing SmartLINK alarms in the property, just add a Relay Module

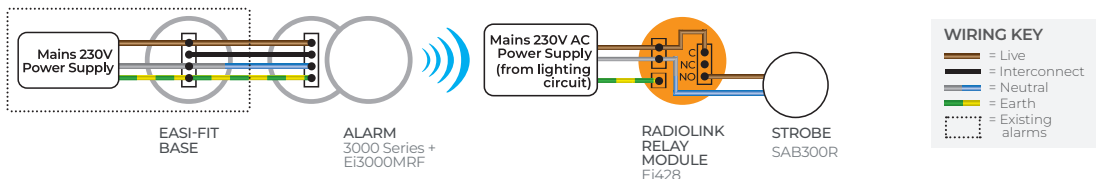


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Strobe - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms

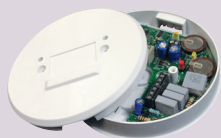


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Strobe - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

## PARTS REQUIRED



1 x RadioLINK Relay Module

Ask for  
Ei428



1 x Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

Ask for  
3000 Series + Ei3000MRF

1 x Flashing Strobe with  
red lens

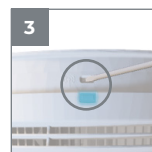
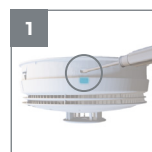


Ask for  
SAB300R

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Take off the cover of the relay and slide the yellow battery switch to "ON". Refit the cover and use a screwdriver to press the House-Code button through the hole in the cover. The green light will now turn red - pull the screwdriver out.
3. The blue light on the SmartLINK Alarms and red light on the Relay Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Modules and Relay Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights (and red light on the Relay) should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Relay should activate the Flashing Strobe.

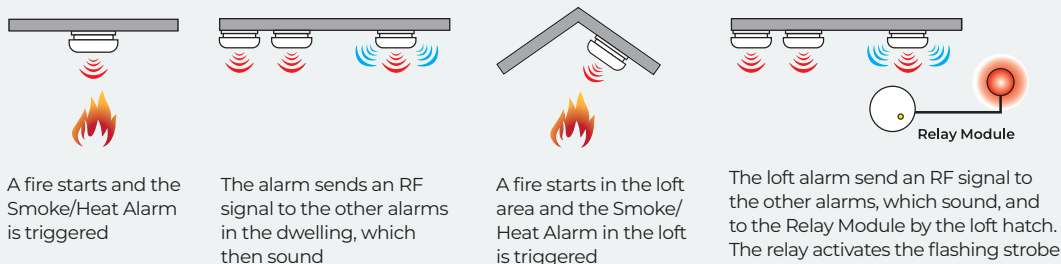
The installer should supply an Installation Certificate for all installations.

# Activating a **Flashing Strobe** from one specific Alarm within a Smoke/Heat Alarm System

RadioLINK / SmartLINK units can be house coded in a way which allows one device to trigger another without triggering the whole system. This has advantages in many applications. One specific application where one-way coding can be of benefit is where an alarm is located in a loft area or remote location, and it is desirable for the occupants to be notified when this alarm has activated by linking the unit to a strobe mounted next to the loft access hatch.

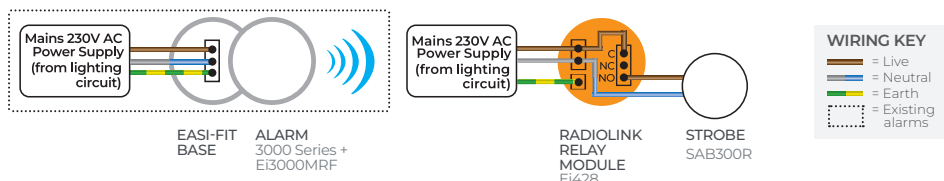


## OVERVIEW



## WIRING

If there are existing SmartLINK alarms in the property, just add a Relay Module

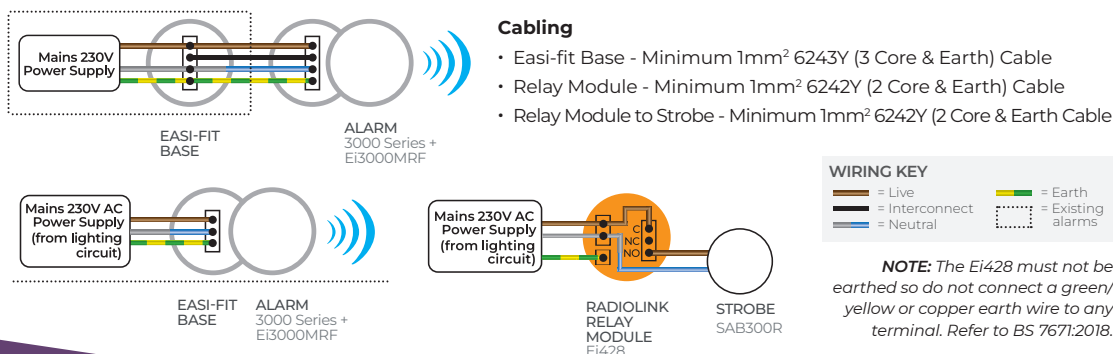


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Strobe - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

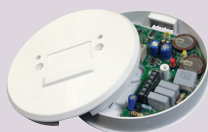
If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK module to the alarm in the loft (disconnecting the interconnect cable to this unit) and also to one alarm on the hard-wired system



**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.



## PARTS REQUIRED



1 x RadioLINK Relay Module

Ask for

Ei428



1 x Ei3000MRF  
SmartLINK  
module within  
a 3000 Series  
Alarm

Ask for

3000 Series + Ei3000MRF

1 x Flashing Strobe with  
red lens



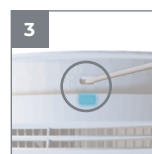
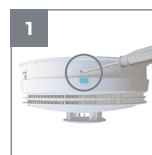
Ask for

SAB300R

## HOUSE-CODING

Ensure all alarms are installed in situ and the Ei428 relay base is wired in to the strobe in the desired location. This is typically outside or next to the loft access hatch.

1. Push a screwdriver into the House-Code slot on the side of the alarm mounted in the loft space. Wait for the blue light to come on, then pull the screwdriver out.
2. Take off the cover of the relay and slide the yellow battery switch to 'ON'. Refit the cover and use a screwdriver to press the House-Code button through the hole in the cover. The green LED will now turn red, pull the screwdriver out.
3. The blue light on the alarm and the red light on the relay unit will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK alarms located in the loft area as well as the Ei428. E.g. 2 flashes = 2 units, 3 flashes = 3 units (note: Ei3028 and Ei3030 both show an additional flash for Fire and CO).
4. The SmartLINK alarm and relay base will automatically finish House coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on the SmartLINK alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other RF units and all blue lights (and red lights on the relay base) will stop flashing. Both the relay and alarm will need to be sealed individually if wanting to close the system before the 30 minute window.
5. Once this step is complete, it is recommended to reset the House-Coding on the alarm/alarms in the loft area by pushing a Screwdriver into the House-Code slot on the SmartLINK alarm/alarms. When the blue light starts to flash, release the screwdriver. This resets the unit back to factory settings, however, the relay base should not be reset and this will ensure it retains the memory of any alarms it has been House-Coded with.
6. Once the above steps have been completed, House-Code all the alarms within the property to the alarms in the loft space as usual ensuring all units show an equal amount of flashes (E.g. 2 flashes = 2 units, 3 flashes = 3 units (note: Ei3028 and Ei3030 both show an additional flash for Fire and CO).



## TESTING & COMMISSIONING

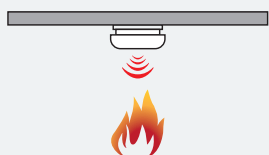
- To test that the installation has worked correctly, when the test button is activated on the alarm in the loft area, then all the alarms in the property should sound and the strobe connected to the relay base should also start to flash. However, when the test button is pressed on any other alarm in the property, then the alarms will all sound but the strobe will not be flashing.

# Activating a **External Sounder** from a Smoke/Heat Alarm System

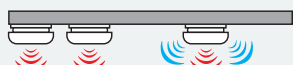
External Sounders are commonly used to give an audible indication if there is a problem. For increased safety, the Smoke/Heat Alarms can be linked to the Sounder so that if the alarms are triggered, the Sounder activates.



## OVERVIEW



A fire starts and the Smoke Heat Alarm is triggered



Relay Module

The alarm sends a RadioLINK signal to the other alarms in the dwelling (which then sound) and to the Relay Module

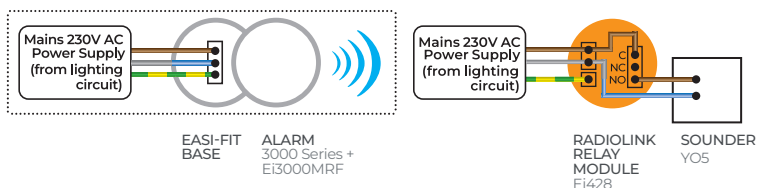


Relay Module

The Relay Module activates the Sounder

## WIRING

If there are existing SmartLINK alarms in the property, just add a Relay Module



### WIRING KEY

— = Live  
 — = Neutral  
 — = Earth  
 — = Existing alarms

### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Sounder - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms



### WIRING KEY

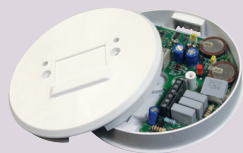
— = Live  
 — = Interconnect  
 — = Neutral  
 — = Earth  
 — = Existing alarms

### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Sounder - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

## PARTS REQUIRED



1 x RadioLINK Relay Module

Ask for  
Ei428



1 x Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

Ask for  
3000 Series + Ei3000MRF

1 x External Sounder

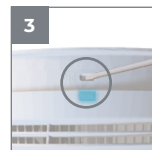
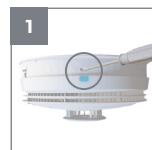


Ask for  
YO5

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Take off the cover of the relay and slide the yellow battery switch to "ON". Refit the cover and use a screwdriver to press the House-Code button through the hole in the cover. The green light will now turn red - pull the screwdriver out.
3. The blue light on the SmartLINK Alarms and red light on the Relay Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Modules and Relay Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights (and red light on the Relay) should stop flashing.



## TESTING & COMMISSIONING

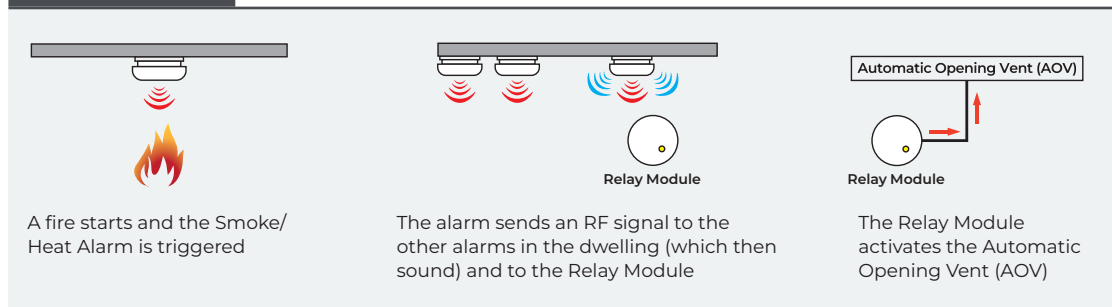
- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Relay should activate the Sounder.

The installer should supply an Installation Certificate for all installations.

# Activating an **Automatic Opening Vent (AOV)** from a Smoke/Heat Alarm System

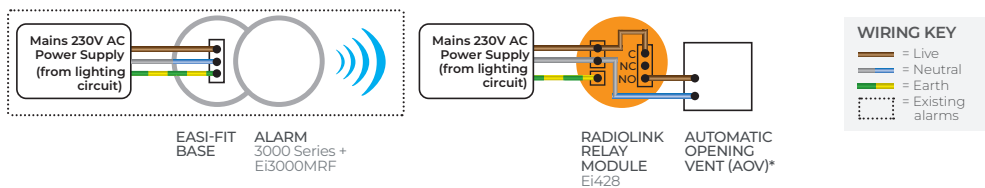
Automatic Opening Vents (AOVs) are commonly used in the communal areas of Houses in Multiple Occupation (HMOs) and blocks of flats to help clear the smoke produced from a fire and give the occupants better visibility and air to breath when escaping from the property. It is possible to connect Smoke/Heat Alarms so that if the alarms are triggered, the Automatic Opening Vent (AOV) is activated.

## OVERVIEW



## WIRING

If there are existing SmartLINK alarms in the property, just add a Relay Module

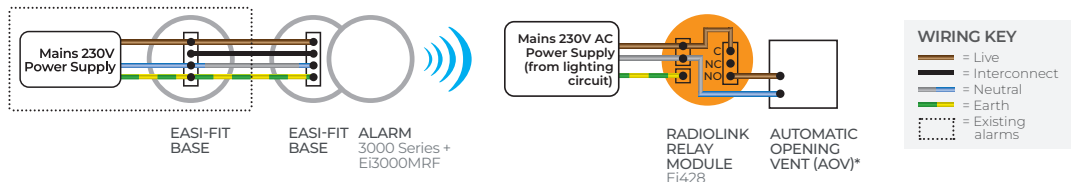


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Automatic Opening Vent (AOV)\* - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms

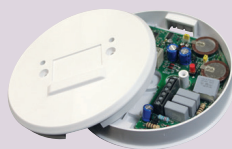


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Sounder - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

## PARTS REQUIRED



1 x RadioLINK Relay Module

Ask for  
Ei428



1 x Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

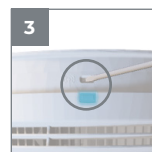
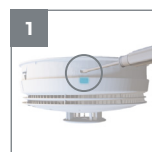
Ask for  
3000 Series + Ei3000MRF

1 x Window/Vent  
Opener

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Take off the cover of the relay and slide the yellow battery switch to "ON". Refit the cover and use a screwdriver to press the House-Code button through the hole in the cover. The green light will now turn red - pull the screwdriver out.
3. The blue light on the RadioLINK Bases and red light on the Relay Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Modules and Relay Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights (and red light on the Relay) should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Relay should activate the Automatic Opening Vent (AOV).

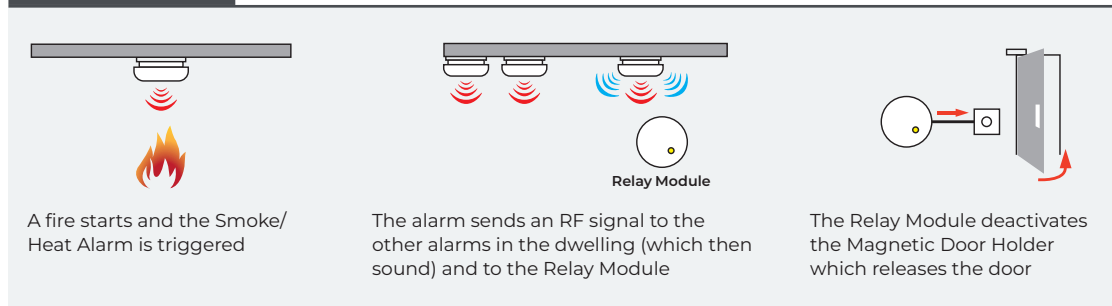
The installer should supply an Installation Certificate for all installations.

# Activating an **Magnetic Door Holder** from a Smoke/Heat Alarm System

Magnetic Door Holders are commonly used to automatically release a fire door in the event of an emergency. It is possible to connect Smoke/Heat Alarms so that if the alarms are triggered, the Magnetic Door Holder is activated.

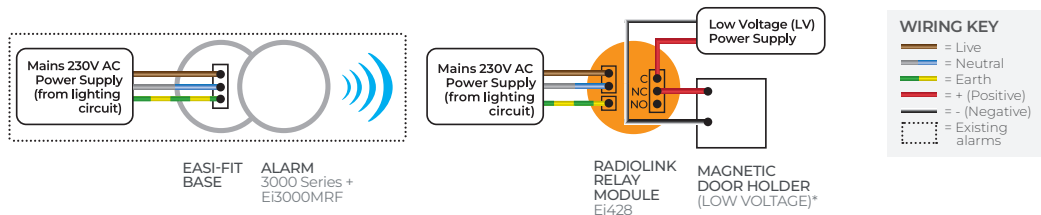


## OVERVIEW



## WIRING

If there are existing SmartLINK alarms in the property, just add a Relay Module

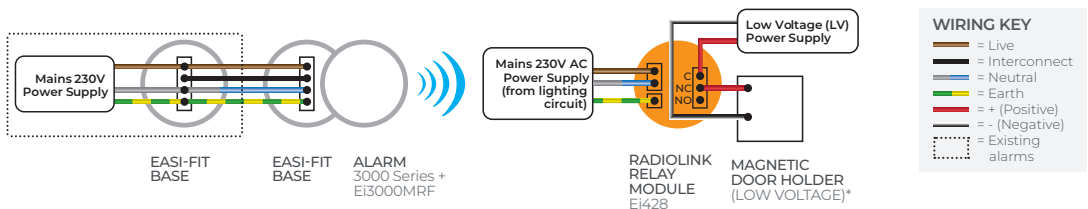


### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Magnetic Door Holder - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms



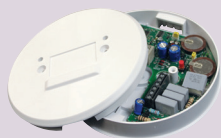
### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module to Magnetic Door Holder - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

\* Example wiring connection shown. Unit should be wired as per the Magnetic Door Holder manufacturers instructions.

## PARTS REQUIRED



1 x RadioLINK Relay Module

Ask for  
Ei428



1 x Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

Ask for  
3000 Series + Ei3000MRF

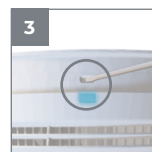
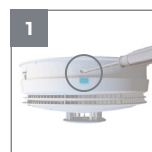
1 x Magnetic Door  
Holder (Low Voltage)



## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Take off the cover of the relay and slide the yellow battery switch to "ON". Refit the cover and use a screwdriver to press the House-Code button through the hole in the cover. The green light will now turn red - pull the screwdriver out.
3. The blue light on the SmartLINK Alarms and red light on the Relay Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Modules and Relay Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights (and red light on the Relay) should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Relay should deactivate the Magnetic Door Holder.

The installer should supply an Installation Certificate for all installations.



## Notes



## Alarm systems for the Hearing Impaired

This section covers connecting Alarms for the Hearing Impaired to a Smoke/Heat Alarm System and other related devices.

---

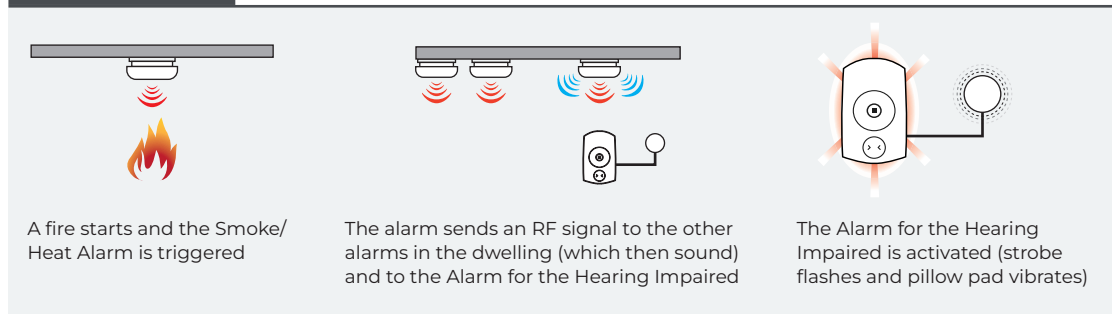
Adding an Alarm for the Hearing Impaired to a Smoke/Heat Alarm System 30-31

# Adding an **Alarm for the Hearing Impaired** to a Smoke/Heat Alarm System

An Alarm for the Hearing Impaired is designed to alert a person with hearing difficulties in the event of an emergency. It is possible to link the Smoke/Heat Alarms so that if the alarms are triggered, the Alarm for the Hearing Impaired is activated.

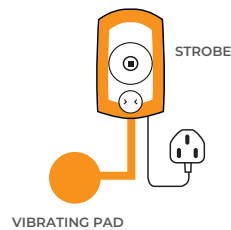
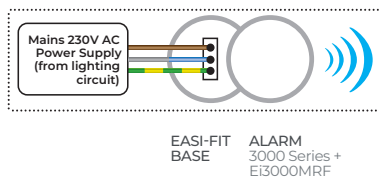


## OVERVIEW



## WIRING

If there are existing SmartLINK alarms in the property, just add an Alarm for the Hearing Impaired



NOTE:  
EI170RF KIT  
CONSISTS OF:  
Strobe  
Vibrating Pad

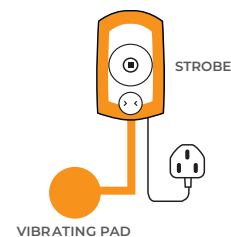
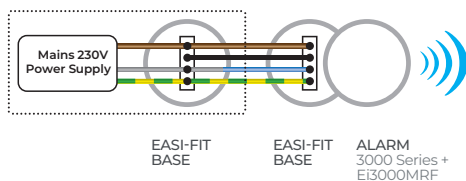
**WIRING KEY**

- = Live
- = Neutral
- = Earth
- = Existing alarms

### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm for the Hearing Impaired - 3 pin plug provided

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK Module to one of the alarms



NOTE:  
EI170RF KIT  
CONSISTS OF:  
Strobe  
Vibrating Pad

**WIRING KEY**

- = Live
- = Interconnect
- = Neutral
- = Earth
- = Existing alarms

### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Alarm for the Hearing Impaired - 3 pin plug provided

## PARTS REQUIRED



1 x RadioLINK Alarm  
for the Hearing Impaired

Ask for  
**Ei170RF**



1 x Ei3000MRF SmartLINK module  
within a 3000 Series Alarm

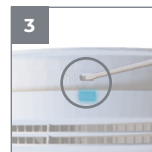
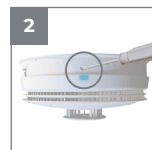
Ask for

**3000 Series + Ei3000MRF**

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Plug the vibrating pad into the strobe unit, slide the battery switch on the back to on and plug in the power cable to a mains power supply.
2. Press the House Code button on the back of the unit. Wait for the blue light to come on, then pull the screwdriver out.
3. Push a screwdriver into the House-Code slot on the side of the 3000 Series Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
4. The blue lights on the SmartLINK Alarms and Alarm for the Hearing Impaired will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
5. The SmartLINK Modules and Alarm for the Hearing Impaired will automatically finish House Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds - it should sound and all other alarms should sound. The Alarm for the Hearing Impaired should activate (the strobe should flash and the vibrating pad should vibrate).

**The installer should supply an Installation Certificate for all installations.**

## Notes



## Adding alarms to an existing system

This section covers extending a Smoke/Heat Alarm System within or between properties.

---

Adding alarms to an existing hard-wired system

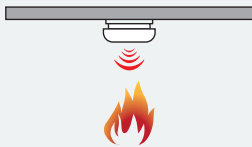
34-35

# Adding alarms to an existing hard-wired system

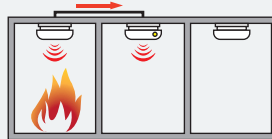
In some properties it may be necessary to add more Smoke/Heat Alarms to an existing hard-wired system - if the property has been extended for example. For minimum disruption this can be done using RadioLINK which uses RF signals to link alarms rather than running cabling.



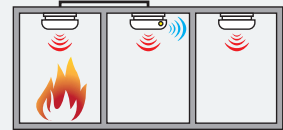
## OVERVIEW



A fire starts and the Smoke/Heat Alarm is triggered



The alarm sends a hard-wired signal to the wired alarms (which sound) including the alarm with the SmartLINK module (which has been added to the hard-wired system)



The SmartLINK module sends an RF signal to the SmartLINK alarms which have been added to the system and they sound

## WIRING



### Cabling

- Existing hard wired, interconnected Alarms - minimum 1mm<sup>2</sup> 6243Y (3 core & Earth) cable
- Easi-fit base with Ei3000 series alarm + Ei3000MRF SmartLINK module - minimum 1mm<sup>2</sup> 6242Y (2 core & Earth) cable



## PARTS REQUIRED

1 x Ei3000MRF SmartLINK module within one of the existing hard-wired alarms (3000 Series)

1 x SmartLINK Module within each additional 3000 Series alarm that is being added to the system

3000 Series alarms as required



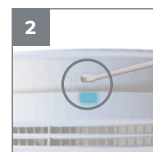
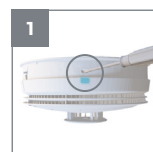
Ask for

3000 series alarm + Ei3000MRF

## HOUSE-CODING

SmartLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the 3000 Series alarm with the SmartLINK Module. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. The blue light on the SmartLINK alarms will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
3. The SmartLINK alarms will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Modules. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other alarms and all blue lights should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm for 10 seconds. It should sound and all other alarms should sound.

**The installer should supply an Installation Certificate for all installations.**

## Notes



## Alarm Systems for Houses in Multiple Occupation (HMOs) and Flats

This section covers Smoke/Heat Alarm System set-ups for use in HMOs and flats.

---

Creating separate alarm systems for the communal area and individual dwellings

38-39

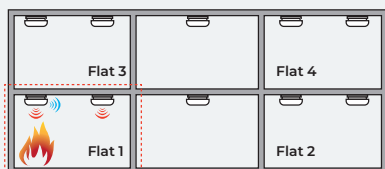
Activating a Smoke/Heat Alarm System in a flat above a shop

40-41

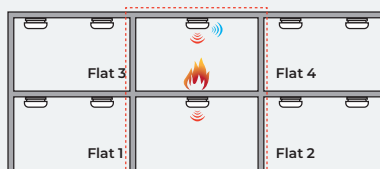
# Creating separate alarm systems for the communal area and individual dwellings

Smoke/Heat Alarm systems are commonly used in Houses in Multiple Occupation (HMOs) and blocks of flats. The systems usually consist of an alarm system in the communal areas of the building (stairwells, hallways, landings etc.) with separate alarm systems within each individual flat. If the property has a “Stay Put” policy then it is possible to separate the flats alarm systems and communal alarm system so if one activates, no other part of the property will sound.

## OVERVIEW



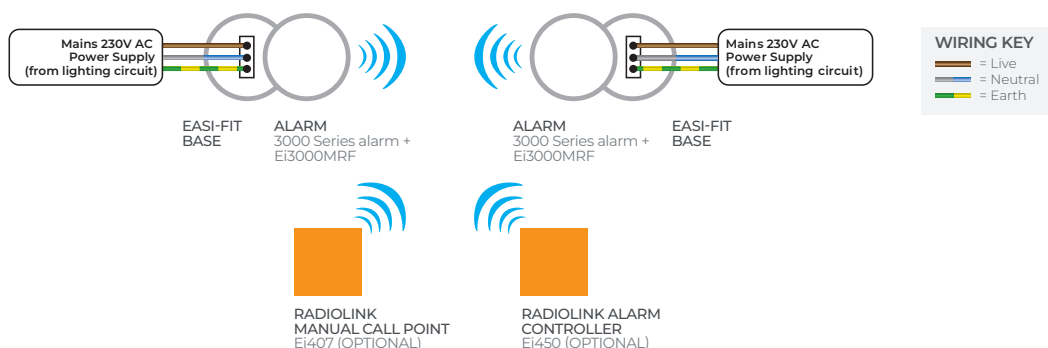
A fire starts in a flat and the Smoke/Heat Alarm is triggered. All other alarms in the flat sound, but not the alarms in the other flats or communal area



A fire starts in the communal area and the Smoke Heat Alarm is triggered. All other alarms in the communal area sound, but not the alarms in the flats

## WIRING

For the Communal areas



### Cabling

- Easi-fit Bases - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm Controller - no cabling (battery only)
- Manual Call Point - no cabling (battery only)

For each flat



### Cabling

- Easi-fit base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

## PARTS REQUIRED



1 x 3000 Series  
alarms + Ei3000MRF  
SmartLINK modules

Ask for

**3000 Series alarms +  
Ei3000MRF modules**



1 x RadioLINK Alarm  
Controller for each exit  
from the communal  
areas (optional)

Ask for

**Ei450**



1 x RadioLINK Manual  
Call Point for each  
exit of the communal  
areas (optional)

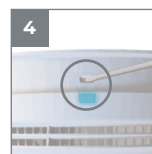
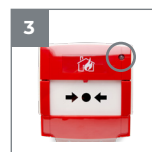
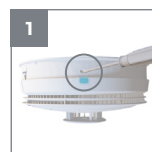
Ask for

**Ei407**

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of one of the SmartLINK Alarms in the communal system. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the communal system.
2. If an Alarm Controller is fitted, slide the battery switch on the back to "ON". Press the House-Code button until the blue light on the front cover of the unit comes on, then release.
3. If a Manual Call Point is fitted, push the black key into the bottom of the Manual Call Point until it clicks, then pull off the bottom of the cover and unclip the white plate. Slide the yellow battery switch to "ON". Press and hold the red House-Code button until the red light on the front cover comes on, then release. Screw the Call Point to the back box, clip the white plate in and slide the bottom half of the cover back on.
4. The blue lights on the SmartLINK Alarms and Alarm Controller and red light on the Manual Call Point will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: the Manual Call Point will flash red continually - this is not an indication of the number of units in the system. Additionally, if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
5. The SmartLINK Alarms will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other alarms and Alarm Controller and all blue lights should stop flashing. The Manual Call Point will automatically finish House-Coding after 15 minutes.
6. Repeat the above steps for each flat separately (excluding steps 2 and 3) ensuring that the flat you are Coding has finished House-Coding before moving on to the next flat.



## TESTING & COMMISSIONING

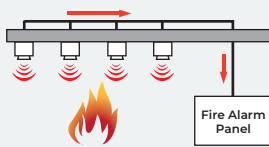
- Press the test button on the alarms in each flat for 10 seconds - it should sound and all other alarms in that flat should sound. Check that the alarms in the other flats and the communal area don't sound.
- Press the test button on each alarm in the communal area for 10 seconds - it should sound and all other alarms in the communal area should sound. Check that the alarms in the flats don't sound.
- Press and hold the test button on the Alarm Controller and press the front plate on the Manual Call Points (if fitted) in turn - all alarms in the communal area should sound.
- **The installer should supply an Installation Certificate for all installations.**

**NOTE:** The alarms mentioned will comply with Grade D1 of BS 5839-6:2019+A1:2020 which is generally acceptable for HMOs/ blocks of flats up to 2 storeys. If your property is above 2 storeys, please call our technical team on 01691 664100 to discuss.

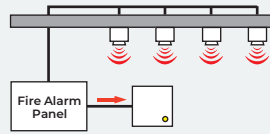
# Activating a Smoke/Heat Alarm System in a flat above a shop

Smoke/Heat Alarms are commonly used in Houses in Multiple Occupation (HMOs) and flats. If however the HMO or flat is above a shop, there will be no indication to the flat if there is a fire inside the shop below. It is possible to link the Fire Alarm Panel System in the shop to the alarms in the HMO's/flat communal area so if there is a fire in the shop the communal alarms sound, giving an early indication of fire to the occupants.

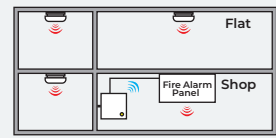
## OVERVIEW



A fire starts in the shop. The Fire Alarm panel is triggered



The Fire Alarm Panel sends a signal to the Switched Input Module



The Switched Input Module sends an RF signal to sound the alarms in the HMO/flat

## WIRING



### WIRING KEY

- = Live
- = Neutral
- = Earth
- = + (Positive)
- = - (Negative)



ALARM CONTROLLER Ei450 (OPTIONAL)



RADIOLINK MANUAL CALL POINT Ei407 (OPTIONAL)

### Cabling

- Easi-fit Bases - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm Controller - no cabling (battery only)
- Manual Call Point - no cabling (battery only)
- Switched Input Module - 2 core Low-Voltage cable to Alarm Panel

## PARTS REQUIRED



1 x 3000 Series  
alarms + Ei3000MRF  
SmartLINK modules

Ei3000 Series alarms + Ei3000MRF modules

Ask for



1 x RadioLINK  
Switched Input

Ask for

Ei408



1 x Alarm Controller  
(optional)

Ask for

Ei450



1 x RadioLINK Manual  
Call Point (optional)

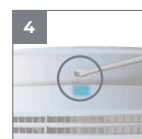
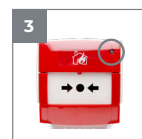
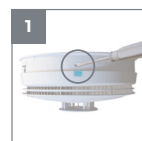
Ask for

Ei407

## HOUSE-CODING

SmartLINK and RadioliNK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioliNK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the SmartLINK Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Slide the yellow battery switch on the back of the Switched Input Module to "ON". Press the red House-Code button until the red light on the front cover of the unit comes on, then release.
3. If an Alarm Controller is fitted, slide the battery switch on the back to "ON". Press the "House-Code" button until the blue light on the front cover of the unit comes on, then release.
4. If a Manual Call Point is fitted, push the black key into the bottom of the Manual Call Point until it clicks, then pull off the bottom of the cover and unclip the white plate. Slide the yellow battery switch to "ON". Press and hold the red House-Code button until the red light on the front cover comes on, then release. Screw the call point to the back box, clip the white plate in and slide the bottom half of the cover back on.
5. The blue light on the SmartLINK Alarms and Alarm Controller and red light on the Manual Call Point will start to flash. Check the number of flashes equals the number of RadioliNK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.) Note: the Switched Input Module and Manual Call Point will flash red continually - this is not an indication of the number of units in the system. Additionally, if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
6. The SmartLINK Alarms will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other alarms and Alarm Controller and all blue lights should stop flashing. The Switched Input Module and Manual Call Point will automatically finish House-Coding after 15 minutes.



## TESTING & COMMISSIONING

- Press the test button on each alarm in the communal area for 10 seconds - it should sound and all other alarms in the communal area should sound.
- Activate the panel if possible or if not, short the NO and C connections. All alarms in the communal area should sound.
- Press the test button on the Remote Control Switch and Manual Call Points (if fitted) - the alarms in the communal area should sound.
- **The installer should supply an Installation Certificate for all installations.**

## Notes





## Adding Control Switches and Call Points

This section covers adding Control Switches and Call Points to existing Smoke/Heat Alarm Systems

---

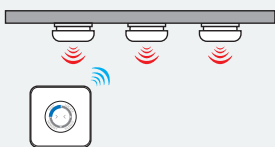
Adding a RadioLINK Alarm Controller to a Smoke/Heat Alarm System	44-45
Adding a Manual Call Point to a Smoke/Heat Alarm System	46-47

# Adding an Alarm Controller to a Smoke/Heat Alarm System

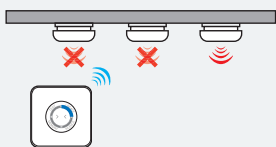
Adding a RadioLINK Alarm Controller to an alarm system will give the occupants extra control over their alarms. The Alarm Controller has a single button for ease of use. If the alarms are in normal standby state, pressing the Controller will test the system. If the alarms are sounding, pressing the Controller will firstly locate the source of the alarm, then pressing it again will silence the system.



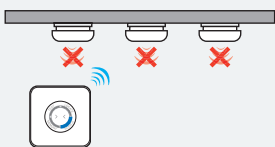
## OVERVIEW



Pressing the Button will test all the alarms in the system (they will all sound)



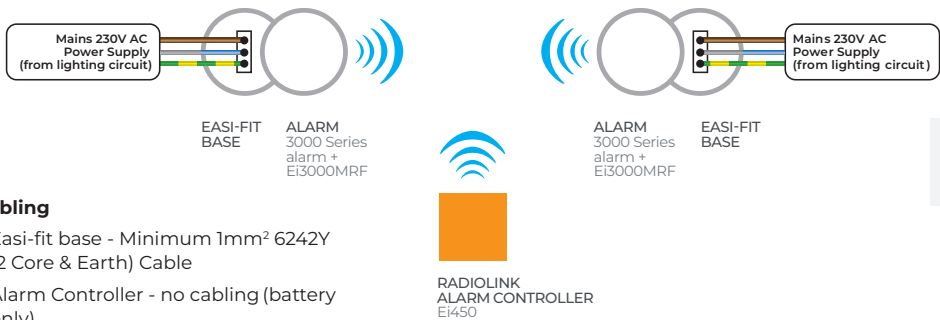
If the alarms are sounding, press the button to 'Locate'. All the alarms will silence, except for the one that has triggered the system



If the alarm has been triggered accidentally, then press the button to Silence the alarm

## WIRING

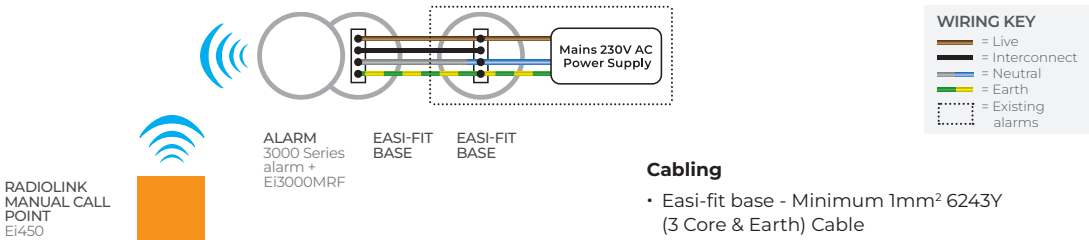
If there are existing SmartLINK alarms in the property, just add Alarm Controller



### Cabling

- Easi-fit base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm Controller - no cabling (battery only)

If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK module to one of the alarms



### Cabling

- Easi-fit base - Minimum 1mm<sup>2</sup> 6243Y (3 Core & Earth) Cable
- Manual Call Point - no cabling (battery only)

## PARTS REQUIRED



1 x 3000 Series alarms + Ei3000MRF  
SmartLINK modules in each alarm

**Ei3000 Series alarms + Ei3000MRF modules**

Ask for

**NOTE:** SmartLINK modules in every radio frequency interconnected alarm. Hardwire interconnected alarms will only need one SmartLINK module per circuit.



1 x RadioLINK Alarm Controller

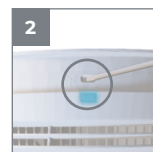
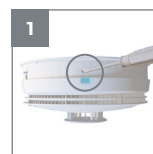
Ask for

**Ei450**

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK and RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the SmartLINK Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Slide the battery switch on the back of the Controller to 'ON'. Use a small screwdriver to press and hold the 'House Code' button until the light on the front of the Controller lights up blue, then release.
3. The blue light on the SmartLINK Alarms and Controller will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (3 flashes = 3 units, 4 flashes = 4 units etc.). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Alarms will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on one SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and Alarm Controller and all blue lights should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on each alarm - it should sound and all other alarms should sound.
- Press the button on the Alarm Controller. The 'Test' segment should light up blue and all alarms should sound. The Controller can also be removed from its mounting plate so you can do a 'walk round' test.

**The installer should supply an Installation Certificate for all installations.**

# Adding a Manual Call Point to a Smoke/Heat Alarm System

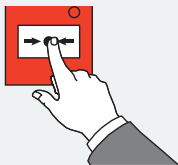
Smoke/Heat Alarms are commonly used in Houses in Multiple Occupation (HMOs) and blocks of flats and will emit an alarm sound if they detect a fire. Manual Call Points can be added to the system to allow the occupant to manually trigger the alarm if they see a fire before the alarms have activated. This can give an earlier warning of fire to the other occupants.



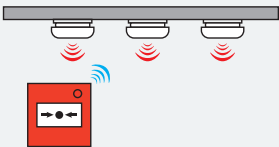
## OVERVIEW



An occupant sees a fire before the alarms have activated



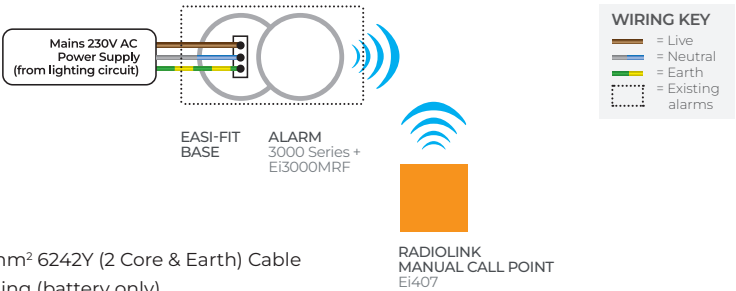
The occupant presses the front plate of the Manual Call Point



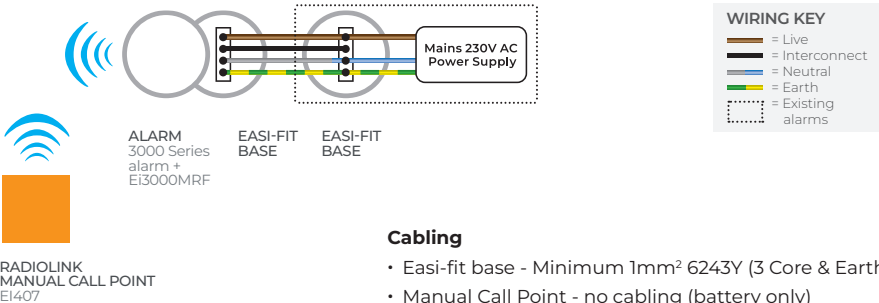
The Manual Call Point sends an RF signal and all alarms in the property sound

## WIRING

If there are existing SmartLINK Alarms in the property, just add a Manual Call Point



If there are existing hard-wired 3000 Series alarms in the property, add a SmartLINK module to one of the alarms



## PARTS REQUIRED



1 x Ei3000MRF SmartLINK module in at least one 3000 series alarm.

Note: only one Ei3000MRF SmartLINK module is required if there is an existing hard-wired system of 3000 Series alarms.

**NOTE:** SmartLINK modules in every radio frequency interconnected alarm. Hardwire interconnected alarms will only need one SmartLINK module per circuit.



1 x RadioLINK Manual Call Point

Ask for

Ei3000MRF

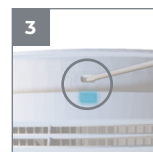
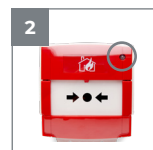
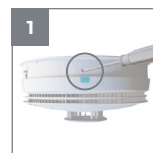
Ask for

Ei407

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the SmartLINK Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Push the black key into the bottom of the Manual Call Point until it clicks, then pull off the bottom of the cover and unclip the white plate. Slide the yellow battery switch to "ON". Press and hold the red House-Code button until the red light on the front cover comes on, then release. Screw the Call Point to the back box, clip the white plate in and slide the bottom half of the cover back on. The red light will start to flash.
3. The blue light on the SmartLINK Alarms will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc.). Note: the Manual Call Point will flash red continually - this is not an indication of the number of units in the system. Additionally, if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Alarms will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights should stop flashing. The Manual Call Point will automatically finish House-Coding after 15 minutes.



## TESTING & COMMISSIONING

- Press the test button on each alarm - it should sound and all other alarms should sound.
- Press the button on the Manual Call Point - all alarms should sound. Reset the Call Point by pushing the black key into the bottom of the Call Point until it clicks, slide the bottom half of the cover down, and then slide it back up until it clicks back into place. The unit will now send a cancel signal and the alarms will silence.

The installer should supply an Installation Certificate for all installations.

## Notes



## Carbon Monoxide (CO) Alarms

This section covers linking Carbon Monoxide (CO) Alarms to other systems

---

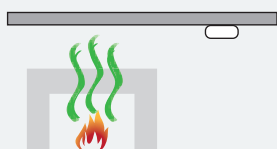
Linking a Carbon Monoxide (CO) Alarm to a Smoke/Heat Alarm System	50-51
Activating a Gas Shut-off Valve from a Carbon Monoxide (CO) Alarm	52-53

# Linking a Carbon Monoxide (CO) Alarm to a Smoke/Heat Alarm System

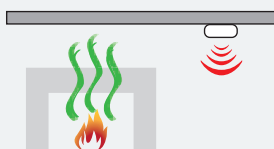
Carbon Monoxide (CO) is a poisonous gas that can potentially be produced by any fuel burning appliance (boilers, open fires, wood burners etc). A CO Alarm will sound if it detects CO gas, however the occupants may not hear the alarm throughout the house. It is possible to link the CO Alarm to other alarms so if it activates, all alarms sound throughout the house - ensuring the alarm is heard.



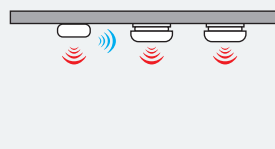
## OVERVIEW



A fuel burning appliance produces CO, which leaks into the room



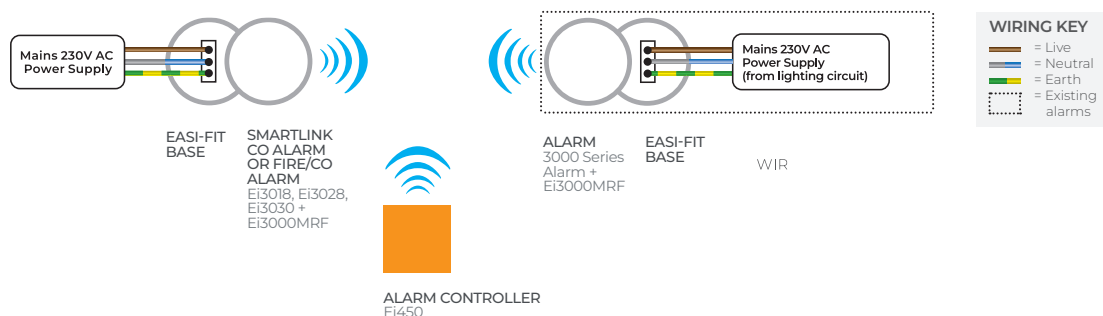
The CO Alarm detects the CO gas and activates



The CO Alarm sends a RadioLINK signal to the Smoke/Heat Alarms and they sound

## WIRING

**Note:** An Alarm Controller is required in the system. The Alarm Controller has multiple functions, one of which is Locate. This will identify which alarm has triggered the system when all are sounding - smoke/ heat or CO. The occupant can then take the correct action.



## Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Alarm Controller - no cabling (battery only)



## PARTS REQUIRED



1 x Ei3000MRF SmartLINK module  
in each 3000 Series alarm

Ask for

Ei3000MRF



1 x 3000 Series CO Alarm or Fire/CO Alarm  
+ Ei3000MRF SmartLINK module

Ask for

Ei3018, Ei3028, Ei3030 + Ei3000MRF



1 x RadioLINK  
Alarm Controller

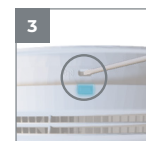
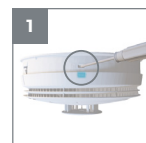
Ask for

Ei450

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the side of the SmartLINK Alarm. Wait for the blue light to come on, then pull the screwdriver out. Repeat this on all SmartLINK Alarms in the system.
2. Push a screwdriver into the House-Code slot on the SmartLINK CO Alarm or Fire/CO Alarm. Wait for the blue light to illuminate, then pull the screwdriver out. Repeat this on all CO Alarms in the system.
3. Slide the battery switch on the back of the Alarm Controller to "ON". Press the House-Code button until the blue light on the front of the Controller comes on, then release.
4. The blue light on the SmartLINK Alarms and Alarm Controller will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
5. The SmartLINK Alarms and Alarm Controller will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all blue lights should stop flashing.



## TESTING & COMMISSIONING

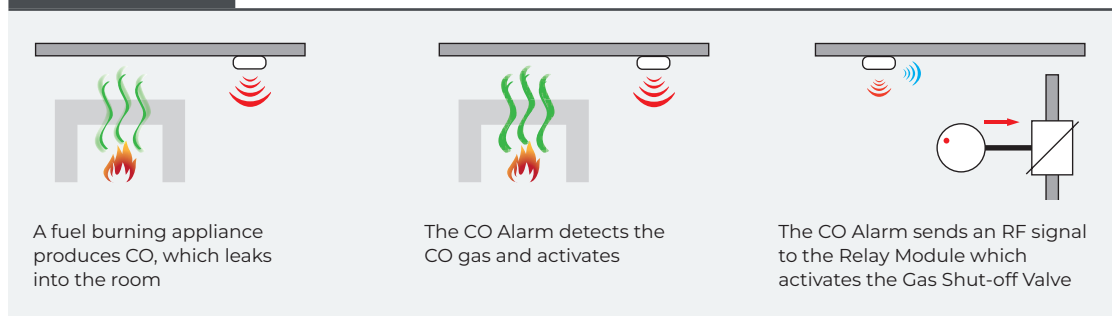
- Press the test button on each alarm in the system for 10 seconds - it should sound and all other alarms in the system should sound.
- Press the test button on the Alarm Controller - all alarms should sound.

**The installer should supply an Installation Certificate for all installations.**

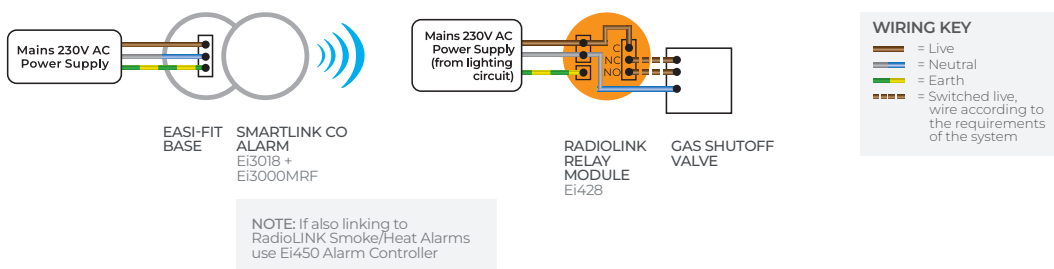
# Activating a Gas Shut-off Valve from a Carbon Monoxide (CO) Alarm

Carbon Monoxide (CO) is a poisonous gas that can potentially be produced by any fuel burning appliances (boilers, gas cookers etc.). A CO Alarm will sound if it detects CO gas, however it will not stop the appliance producing CO. It is possible to link the CO Alarm to a Gas Shut-off Valve so that if the alarm sounds, the Gas Shut-off Valve operates, stopping the supply of gas to the appliance producing the CO.

## OVERVIEW



## WIRING



### Cabling

- Easi-fit Base - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Relay Module - Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

## PARTS REQUIRED



1 x 3000 Series CO Alarm +  
Ei3000MRF SmartLINK module

Ask for

Ei3018 + Ei3000MRF



1 x RadioLINK Relay Module

Ask for

Ei428

1 x Gas Shutoff  
Valve (230V AC  
Mains Powered)

## HOUSE-CODING

SmartLINK and RadioLINK units use radio signals to link together. When fitted they must be 'House-Coded'. This means they will learn the other alarms on the system and will then only link to those alarms. So even if there are SmartLINK or RadioLINK alarms next door, they won't cause problems.

1. Push a screwdriver into the House-Code slot on the SmartLINK CO Alarm. Wait for the blue light to illuminate, then pull the screwdriver out. Repeat this on all Carbon Monoxide Alarms in the system.
2. Take off the cover of the relay and slide the yellow battery switch to "ON". Refit the cover, then use a screwdriver to press the House-Code button through the hole in the cover. When the green light turns red - pull the screwdriver out.
3. The blue light on the SmartLINK Alarm and red light on the Relay Module will start to flash. Check the number of flashes equals the number of RadioLINK/SmartLINK units in the system so far (2 flashes = 2 units, 3 flashes = 3 units etc). Note: if there are Ei3028 or Ei3030 alarms in the system this will result in an extra flash per alarm.
4. The SmartLINK Alarm and Relay Module will automatically finish House-Coding after 30 minutes. To complete the House-Coding before then, push a screwdriver into the House-Code slot on **one** SmartLINK Alarm. When the blue light comes on solidly, pull the screwdriver out. This will send an RF signal to the other units and all lights should stop flashing.



## TESTING & COMMISSIONING

- Press the test button on the Carbon Monoxide Alarm for 10 seconds - it should sound and the Relay Module should activate the Gas Shut-off Valve. Manually reset the Gas Shutoff Valve if there is no automatic reset

**The installer should supply an Installation Certificate for all installations.**

## Notes



## AudioLINK+

This section covers AudioLINK+

---

Extracting An AudioLINK+ Report From An Alarm

56-57

# Extracting An AudioLINK+ Report from an Alarm

AudioLINK+ can be used to extract real time data from compatible alarms to give insight into an alarms health and operation, including aspects such as alarm age, replacement date, battery information, testing and smoke/heat/CO activations. The information is shown as an Alarm Status Report within the AudioLINK+ App.

## OVERVIEW



Pressing the Test button initiates the AudioLINK+ data extraction



The alarm will emit a number of beeps. The phone will pick these up (via the microphone)



The Alarm Status Report is shown in the AudioLINK+ App

## PARTS REQUIRED

AudioLINK or AudioLINK+ Compatible Alarms



Ask for

3000 Series Alarms, 600 Series Alarms, 200 Series Alarms



AudioLINK+ App

## EXTRACTING THE ALARM STATUS REPORT

1. Download the AudioLINK+ App from the relevant app store



2. Open the App and select **Download Alarm Report**



3. Select **Auto**



4. The App will provide instructions on how to press the test button to initiate the data extraction from the alarm. Select **Start Recording**



5. The App will display the recording screen. Press the test button on the alarm 3 times within 5 seconds. The alarm will start to emit AudioLINK+ beeps



6. The Alarm Status report will be shown. Tap on any of the coloured tiles for further information on the data being displayed



7. A copy of the report will be automatically saved in the AudioLINK+ App.

To email a copy of the AudioLINK+ report, select **Location** and enter the details in the form shown

Select **Send** and + to add an email address to send the report to, then select **Send**



## Notes





## Connected Home

This section covers Connected Home

---

Installing a Gateway	60-61
Connecting Smoke, Heat or CO Alarms to a Gateway	62-63
Connecting Environmental Sensors to a Gateway	64-65
Connecting an Alarm Controller to a Gateway	66-67
Triggering Smoke/Heat Alarms From A Sprinkler System and Connecting To A Gateway	68-69
Activating an External Device from a Smoke/Heat Alarm System Connected To A Gateway	70-71
Adding an Alarm For The Hearing Impaired to a Smoke/Heat Alarm System Connected To A Gateway	72-73

# Installing a Gateway

A Gateway can be installed in a property to connect the Smoke, Heat or CO alarms, Environmental Sensors or other compatible products to the HomeLINK Dashboard. The Gateway sends out data on the system in the property, providing information on any alarm activations, alarm status and environmental data such as temperature, humidity and CO2 levels.

## OVERVIEW



The Gateway receives information from the alarms

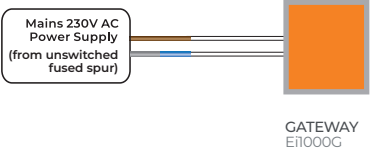


It uses its built in SIM connectivity to send the data up to the portal



The data is displayed on the HomeLINK Dashboard and Resident App

## WIRING



**WIRING KEY**  
= Live  
= Neutral  
(Pre-wired from Gateway)

### Cabling

- Gateway – pre-wired 2 Core Cable

## PARTS REQUIRED

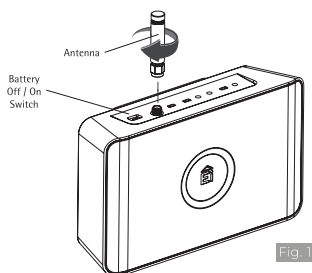


1 x Gateway

Ask for

## INSTALLATION

1. Screw on the antenna and slide the battery switch to the 'ON' position.

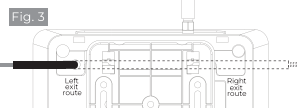
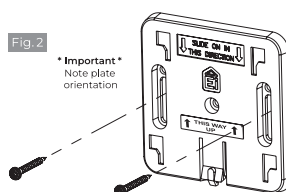


2. Hold the Gateway in the location identified for installation. Using a small screwdriver, press the Test button on the top of the Gateway and count the yellow flashes.

Number of Flashes	Signal Strength
4	Excellent
3	Good
2	Average
1	Poor
0	No Connection

3. If the Gateway is indicating Poor signal strength, move the Gateway to another location. Press the Reset button on the top of the Gateway, then repeat 2 above.

4. Once a suitable location has been identified, fix the mounting bracket to the wall and wire the Gateway's pre-wired 2 core cable into an unswitched fused spur.



## COMMISSIONING

Download the SmartLINK App to finish the installation and commission the system, selecting 'Add Installation' and following the App instructions.



The installer should supply an Installation Certificate for all installations.

# Connecting **Smoke, Heat or CO Alarms** to a Gateway

Connecting Smoke, Heat or CO alarms to a Gateway will provide remote information on the status of the alarms, including any alarm activations, mains power absences, alarm removal, test button activations and other events. This information will be displayed on the HomeLINK Dashboard along with the HomeLINK Resident App.

## OVERVIEW



The Gateway receives information from the alarms and sensors

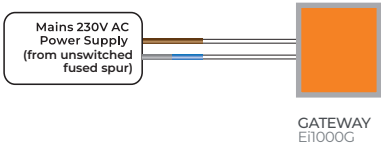
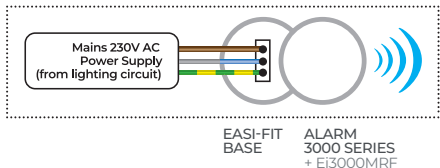


It uses its built in SIM connectivity to send the data up to the portal



The data is displayed on the HomeLINK Dashboard and Resident App

## WIRING



**WIRING KEY**  
= Live  
= Neutral  
= Earth  
= Existing alarms

### Cabling

- Easi-fit Base – Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable
- Gateway – pre-wired 2 Core Cable

**Note:** a maximum of 17 alarm serial numbers can be added to a Gateway system.

Single sensor alarms = 1 serial number  
Multi-Sensor alarms = 2 serial numbers

## PARTS REQUIRED



1 x Gateway

Ask for  
**Ei1000G**

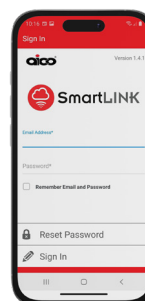


3000 Series alarms fitted with Ei3000MRF SmartLINK modules

Ask for  
**3000 Series + Ei3000MRF**

## INSTALLATION

1. Install the Gateway as per the **Installation** section of the **Installing A Gateway** application instructions.
2. If the alarms are an existing system and have previously been House Coded, factory reset all units before adding a Gateway to the system. If the alarms haven't previously been House Coded, go to step 3. To factory reset, press and hold the House Code button on the side of the alarm until the blue LED begins to flash, then release. Repeat this on all alarms in the system.
3. Download the SmartLINK App and log-in using the user details provided by the client you are installing for. If you do not have log-in details, please contact the client you are installing for. For any further support, please contact the Aico Technical Team on 01691 664100 or [technical@aico.co.uk](mailto:technical@aico.co.uk).



4. Select Add Installation and follow the instructions in the app to complete the installation. Up to 17 RF devices can be connected to the system.

## COMMISSIONING

- Press the test button on each alarm for 10 seconds – it should sound and all other alarms should sound. The amber LED should illuminate on the Gateway.
- Open the SmartLINK App and select View Installation. Select the system installed, then select the alarm(s) – the Test Button activations should be showing in Event History.

**The installer should supply an Installation Certificate for all installations.**

# Connecting Environmental Sensors to a Gateway

Connecting Environmental Sensors to a Gateway will provide insights into the environmental conditions within the home, including risk levels for damp and mould, heat loss, indoor air quality and other environmental factors. This information will be displayed on the HomeLINK Dashboard along with the HomeLINK Resident App.

## OVERVIEW



The Gateway receives information from the environmental sensors



It uses its built in SIM connectivity to send the data up to the portal

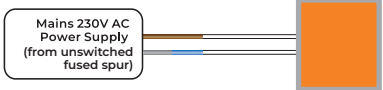


The data is displayed on the HomeLINK Dashboard and Resident App

## WIRING



ENVIRONMENTAL SENSOR  
Ei1020 or Ei1025



GATEWAY  
Ei1000G

WIRING KEY	
	= Live
	= Neutral
	= Earth
	= Existing alarms

### Cabling

- Gateway – pre-wired 2 Core Cable
- Environmental Sensor – none (battery powered)

**Note:** a maximum of 17 Environmental Sensors can be added to a Gateway system (RF range dependant).

## PARTS REQUIRED



1 x Gateway

Ask for  
Ei1000G



Environmental Sensors

Ask for  
Ei1025 or Ei1020

## INSTALLATION

1. If an existing Gateway isn't present, install the Gateway as per the **Installation** section of the **Installing A Gateway** application instructions.
2. Download the SmartLINK App and log-in using the user details provided by the client you are installing for.

If you do not have log-in details, please contact the client you are installing for. For any further support, please contact the Aico Technical Team on 01691 664100 or [technical@aico.co.uk](mailto:technical@aico.co.uk).



3. **If installing as a new Gateway system:** Select Add Installation and follow the instructions in the app to complete the installation.

**If adding the Environmental Sensors to an existing Gateway system:** Select View Installations, search for and select the installation, then select Edit > Add unit and follow the instructions in the app to complete the installation.



## COMMISSIONING

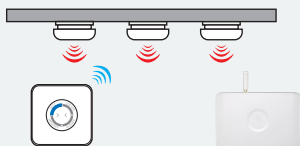
- Open the SmartLINK App and select View Installation. Select the system installed, then check all data is correct and all Environmental Sensors are visible within the system.

**The installer should supply an Installation Certificate for all installations.**

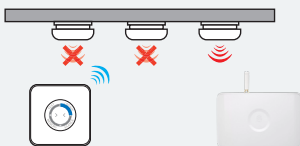
# Connecting an Alarm Controller to a Gateway

Connecting an Alarm Controller to a Gateway system with alarms connected will provide occupants extra control over their alarms. If the alarms are in normal state, pressing the Alarm Controller will test the system. If the alarms are sounding, pressing the Controller will test the system. Alarm Controller events will be displayed on the HomeLINK Dashboard along with the HomeLINK Resident App.

## OVERVIEW



Pressing the Button will test all the alarms in the system (they will all sound)



If the alarms are sounding, press the button to 'Locate'. All the alarms will silence, except for the one that has triggered the system



If the alarm has been triggered accidentally, then press the button to Silence the alarm



The Gateway uses its built in SIM connectivity to send the data up to the portal



The data is displayed on the HomeLINK Dashboard and Resident App

## WIRING



RADIOLINK ALARM CONTROLLER E1450

Mains 230V AC Power Supply (from lighting circuit)



EASI-FIT BASE ALARM 3000 SERIES + E13000MRF

Mains 230V AC Power Supply (from unswitched fused spur)



GATEWAY E1000G

**WIRING KEY**  
= Live  
= Neutral  
= Earth  
= Existing alarms

### Cabling

- Gateway – pre-wired 2 Core Cable
- Alarm Controller – none (battery powered)

**Note:** a maximum of 17 alarm and accessory serial numbers can be added to a Gateway system.

Accessories = 1 serial number  
Single sensor alarms = 1 serial number  
Multi-Sensor alarms = 2 serial numbers



## PARTS REQUIRED



1 x RadioLINK  
Alarm Controller

Ask for

Ei450



1 x Gateway

Ask for

Ei1000G



3000 Series alarms  
fitted with Ei3000MRF  
SmartLINK modules

Ask for

3000 Series + Ei3000MRF

## INSTALLATION

1. Download the SmartLINK App and log-in using the user details provided by the client you are installing for.

If you do not have log-in details, please contact the client you are installing for. For any further support, please contact the Aico Technical Team on 01691 664100 or [technical@aico.co.uk](mailto:technical@aico.co.uk).



Download on the  
App Store



GET IT ON  
Google Play



2. **If installing as a new Gateway system:** Select Add Installation and follow the instructions in the app to complete the installation.

**If adding the Environmental Sensors to an existing Gateway system:** Select View Installations, search for and select the installation, then select Edit > Add unit and follow the instructions in the app to complete the installation.



## COMMISSIONING

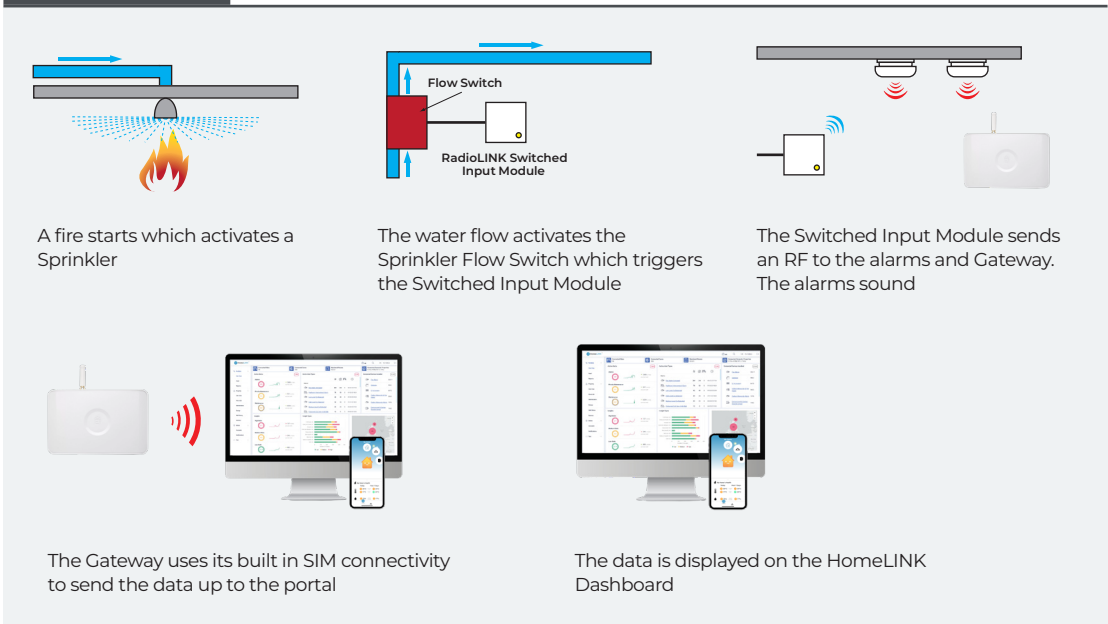
- Press the button on the Alarm Controller. The 'Test' segment should light up blue and all alarms should sound. The amber LED should illuminate on the Gateway.
- Open the SmartLINK App and select View Installation. Select the system installed, then select the Alarm Controller – the Test Button activation should be showing in Event History.

The installer should supply an Installation Certificate for all installations.

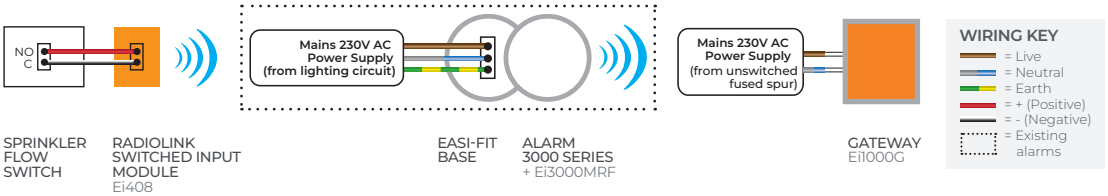
# Triggering Smoke/Heat Alarms From A Sprinkler System and connecting to a Gateway

Sprinkler systems are increasingly being used in properties and are designed to suppress a fire and increase the occupants time to escape. However, if there is no alarm indicating when the sprinklers are activated the occupants may be unaware of the fire. To get round this, Smoke/Heat alarms can be linked to the sprinklers (via a Flow Switch) so that they sound if the sprinklers are activated. If the alarm system also contains a Gateway, event data on the activation of the sprinkler system can be sent via the Gateway to the HomeLINK Dashboard, providing remote notification.

## OVERVIEW



## WIRING



### Cabling

- Switched Input Module – 2 Core Low Voltage cable to Flow Switch
- Gateway – pre-wired 2 Core Cable
- Existing Alarms – Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**Note:** a maximum of 17 alarm and accessory serial numbers can be added to a Gateway system.

Accessories = 1 serial number  
Single sensor alarms = 1 serial number  
Multi-Sensor alarms = 2 serial numbers

## PARTS REQUIRED



1 x RadioLINK  
Switch Input  
Module

Ask for

Ei408



1 x Gateway

Ask for

Ei1000G



3000 Series alarms  
fitted with Ei3000MRF  
SmartLINK modules

Ask for

3000 Series + Ei3000MRF

## INSTALLATION

1. Download the SmartLINK App and log-in using the user details provided by the client you are installing for.

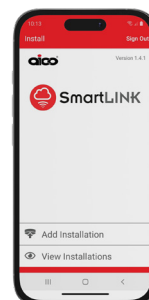
If you do not have log-in details, please contact the client you are installing for. For any further support, please contact the Aico Technical Team on 01691 664100 or [technical@aico.co.uk](mailto:technical@aico.co.uk).



Download on the  
App Store



GET IT ON  
Google Play



2. **If installing as a new Gateway system:** Select Add Installation and follow the instructions in the app to complete the installation.

**If adding the Environmental Sensors to an existing Gateway system:**

Select View Installations, search for and select the installation, then select Edit > Add unit and follow the instructions in the app to complete the installation.

## COMMISSIONING

- Activate the flow switch if possible or if not, temporarily short the NO and C connections of the Switched Input Module. All alarms should sound and the amber LED should illuminate on the Gateway.
- Open the SmartLINK App and select View Installation. Select the system installed, then select the Switched Input Module – a Fire Alarm activation should be showing in Event History.

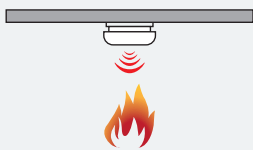
The installer should supply an Installation Certificate for all installations.

# Activating an External Device from a Smoke/Heat Alarm System connected to a Gateway

External devices such as flashing strobes, external sounders, automatic opening vents and magnetic door holders can be activated if a Smoke/Heat alarm system triggers.

If the alarm system also contains a Gateway, event data on the activation of the alarm system can be sent via the Gateway to the HomeLINK Dashboard, providing remote notification.

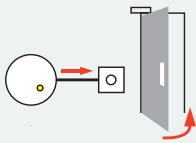
## OVERVIEW



A fire starts and the Smoke/Heat Alarm is triggered



The alarm sends an RF signal to the other alarms (which then sound) and to the Gateway and Relay Module



The Relay Module activates the external device

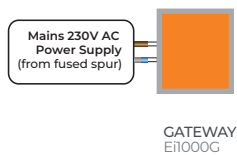
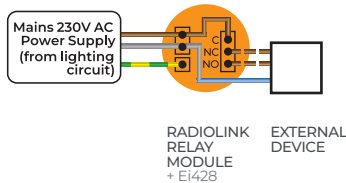
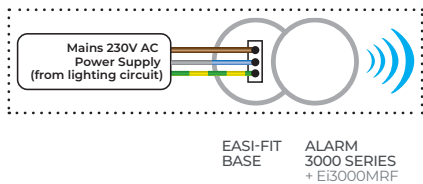


The Gateway uses its built in SIM connectivity to send the data up to the portal



The data is displayed on the HomeLINK Dashboard

## WIRING



**WIRING KEY**

—	= Live
—	= Neutral
—	= Earth
...	= Existing alarms

### Cabling

- External Device – wired as per device requirements
- Gateway – pre-wired 2 Core Cable
- Existing Alarms – Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**Note:** a maximum of 17 alarm and accessory serial numbers can be added to a Gateway system.

Accessories = 1 serial number  
Single sensor alarms = 1 serial number  
Multi-Sensor alarms = 2 serial numbers

**NOTE:** The Ei428 must not be earthed so do not connect a green/yellow or copper earth wire to any terminal. Refer to BS 7671:2018.

\* Example wiring connection shown. Unit should be wired as per the external devices manufacturers instructions.

## PARTS REQUIRED



1 x RadioLINK  
Relay Module

Ask for

Ei428



1 x Gateway

Ask for

Ei1000G



3000 Series alarms  
fitted with Ei3000MRF  
SmartLINK modules

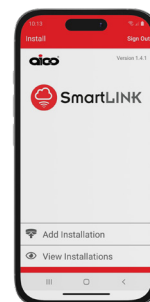
Ask for

3000 Series + Ei3000MRF

## INSTALLATION

1. Download the SmartLINK App and log-in using the user details provided by the client you are installing for.

If you do not have log-in details, please contact the client you are installing for. For any further support, please contact the Aico Technical Team on 01691 664100 or [technical@aico.co.uk](mailto:technical@aico.co.uk).



2. **If installing as a new Gateway system:** Select Add Installation and follow the instructions in the app to complete the installation.

**If adding the Environmental Sensors to an existing Gateway system:** Select View Installations, search for and select the installation, then select Edit > Add unit and follow the instructions in the app to complete the installation.

## COMMISSIONING

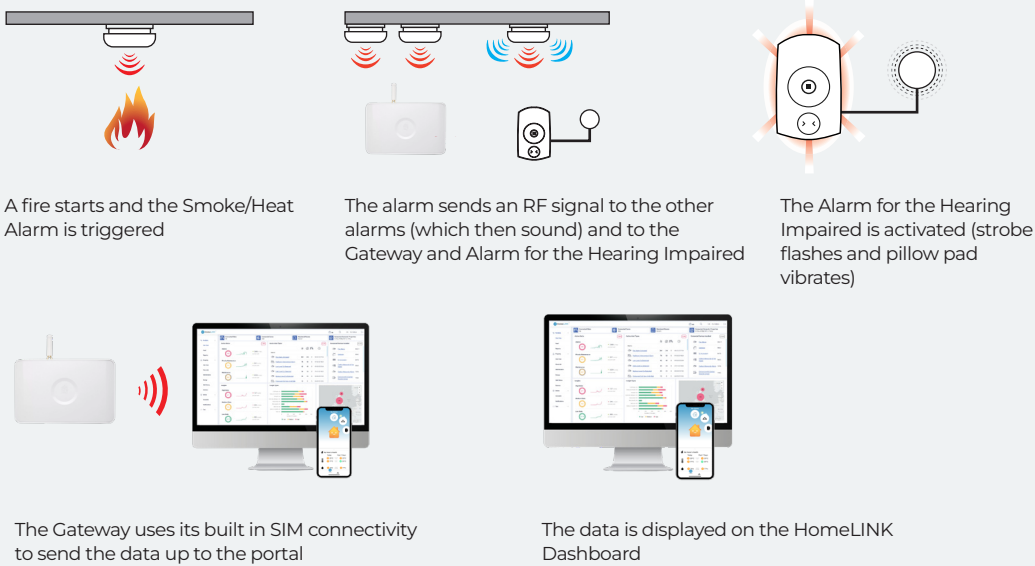
- Press the test button on each alarm for 10 seconds – it should sound and all other alarms should sound. The Relay should activate the external device. The amber LED should illuminate on the Gateway.
- Open the SmartLINK App and select View Installation. Select the system installed, then select each of the alarms in turn – a Test Button event should be showing in Event History.

The installer should supply an Installation Certificate for all installations.

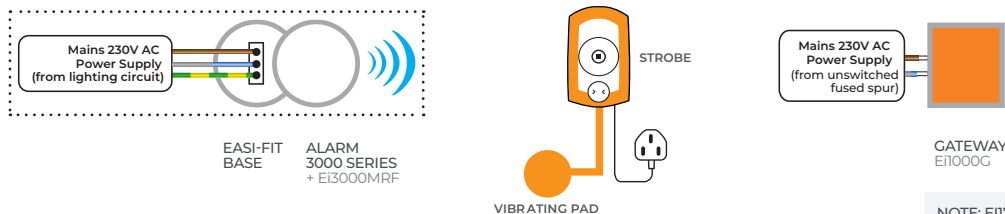
# Adding an Alarm For The Hearing Impaired to a Smoke/Heat Alarm System connected to a Gateway

An Alarm for the Hearing Impaired is designed to alert a person with hearing difficulties in the event of an emergency. It is possible to link the Smoke/Heat Alarms so that if the alarms are triggered, the Alarm for the Hearing Impaired is activated. If the alarm system also contains a Gateway, event data on the activation of the alarm system can be sent via the Gateway to the HomeLINK Dashboard, providing remote notification.

## OVERVIEW



## WIRING



### Cabling

- Alarm for the Hearing Impaired – 3 pin plug provided
- Gateway – pre-wired 2 Core Cable
- Existing Alarms – Minimum 1mm<sup>2</sup> 6242Y (2 Core & Earth) Cable

**Note:** a maximum of 17 alarm and accessory serial numbers can be added to a Gateway system.

Accessories = 1 serial number  
Single sensor alarms = 1 serial number  
Multi-Sensor alarms = 2 serial numbers

**NOTE:** EI170RF KIT CONSISTS OF:  
Strobe and Vibrating pad

**WIRING KEY**  
— = Live  
— = Neutral  
— = Earth  
— = Existing alarms

## PARTS REQUIRED



1 x RadioLINK  
Alarm for the  
Hearing Impaired

Ask for  
Ei170RF



1 x Gateway

Ask for  
Ei1000G



3000 Series alarms  
fitted with Ei3000MRF  
SmartLINK modules

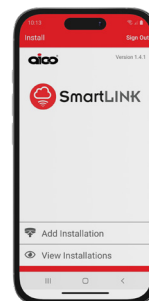
Ask for

3000 Series + Ei3000MRF

## INSTALLATION

1. Download the SmartLINK App and log-in using the user details provided by the client you are installing for.

If you do not have log-in details, please contact the client you are installing for. For any further support, please contact the Aico Technical Team on 01691 664100 or [technical@aico.co.uk](mailto:technical@aico.co.uk).



2. **If installing as a new Gateway system:** Select Add Installation and follow the instructions in the app to complete the installation.

**If adding the Environmental Sensors to an existing Gateway system:** Select View Installations, search for and select the installation, then select Edit > Add unit and follow the instructions in the app to complete the installation.

## COMMISSIONING

- Press the test button on each alarm for 10 seconds – it should sound and all other alarms should sound. The Alarm for the Hearing Impaired should activate (the strobe should flash and the vibrating pad should vibrate). The amber LED should illuminate on the Gateway.
- Press the test button on the Alarm for Hearing Impaired for 10 seconds – the strobe should flash, the vibrating pad should vibrate and the alarms should sound. The amber LED should illuminate on the Gateway.
- Open the SmartLINK App and select View Installation. Select the system installed, then select each of the alarms in turn and the Alarm for the Hearing Impaired – a Test Button event should be showing in Event History for all units.

The installer should supply an Installation Certificate for all installations.

## Notes





# Aico Publications & Apps

We're focussed on providing you with all the support information you need, so in addition to the website we offer a complete range of publications and apps. Whether you're a contractor or specifier, we've got it covered.



The Connected Home Solution



Handybook



Key Product Guide



Resident App Leaflet



Legislation Z-Card



Safety first, Aico first

Download and discover our full range of literature on our website.

[www.aico.co.uk](http://www.aico.co.uk)

# Find your **Local Relationship Manager**

Aico have Relationship Managers situated throughout the UK that can help in a consultative role to advise on alarm selection, siting, installation and maintenance.

To find your nearest **Relationship Manager**, please visit our website.

[www.aico.co.uk/contact](http://www.aico.co.uk/contact)

Scan for more  
information





**Aico**

Maesbury Road  
Oswestry  
Shropshire  
SY10 8NR

**T 01691 664100**

**E enquiries@aico.co.uk**

**www.aico.co.uk**

SEPTEMBER 2025

© Aico. Illustrations, photographs, part numbers, layout and style are considered property.

Any reproduction, in whole or in part, is strictly prohibited without written permission. Our policy is one of continuous improvement; we reserve the right to amend designs and specifications without prior notice. Every care has been taken to ensure that the contents of this document are correct at the time of printing and we shall be under no liability whatsoever for any errors or omissions.

an  Company

Aico is a wholly owned subsidiary of Ei Electronics - Europe's Leader in Residential Fire + Gas Detection

**PUSH THAT TEST BUTTON**

**TEST**

**#AlarmsSaveLives**