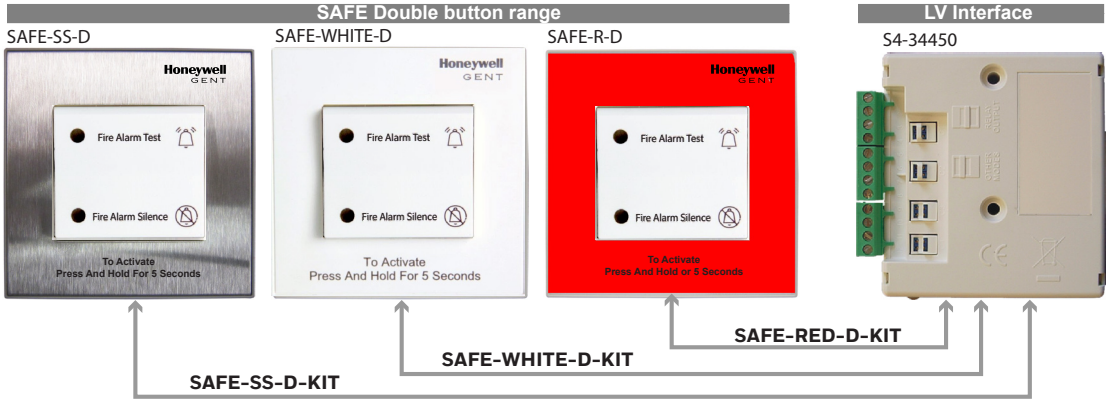
User Guide

SAFE System - Double Button

(SAFE-XX..-D-KIT)



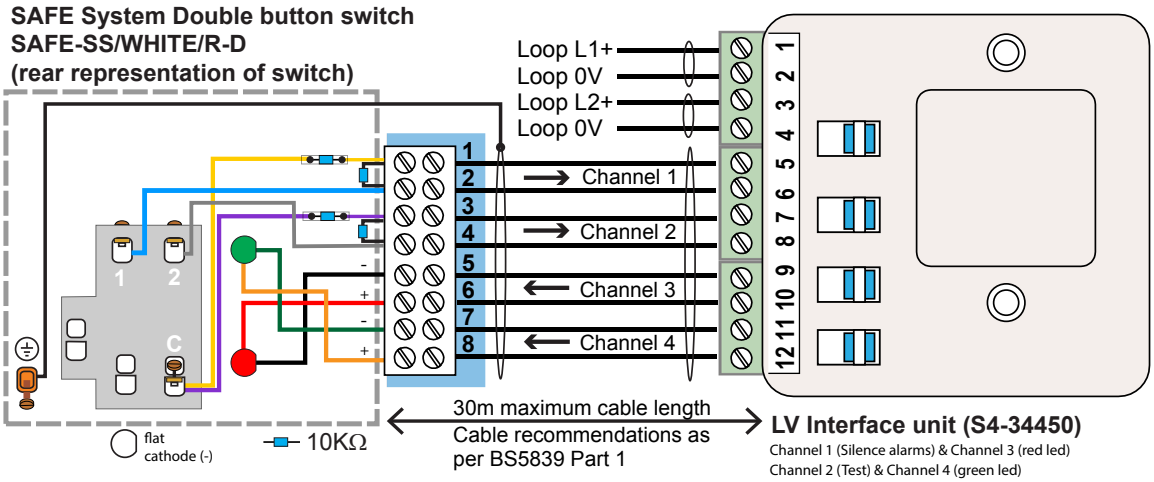
The SAFE system Double Button (switch) is used to manage Area Alarms in a Vigilon Plus Fire System. The SAFE button is available in Stainless Steel, White and Red enclosures and is supplied with an LV Interface. Each kit consists of a:

- SAFE button
- LV Interface

Installation instructions

- Do not test the SAFE System button with an insulation tester
- Do not use an electric screwdriver or power tool to tighten screws to secure the product
- Ensure all wire connections to the switch terminal block are securely fitted.

Wiring



Backbox

a. Ensure the backbox is deep enough to accommodate the *SAFE System button assembly* before it is fitted to a wall, see section headed 'Technical data' for overall dimensions.

b. A SAFE System Double button is wired to an LV interface unit as illustrated above using recommended cable, see Cables section in the panel installation manual. Use the fixing screws provided to secure the *Safe Button assembly* to the backbox. To optimise *Frontplate* installation do not overtightened the fixing screws.

c. Make adjustments so that the *SAFE button assembly* and backbox sit squarely on the wall.

Frontplate

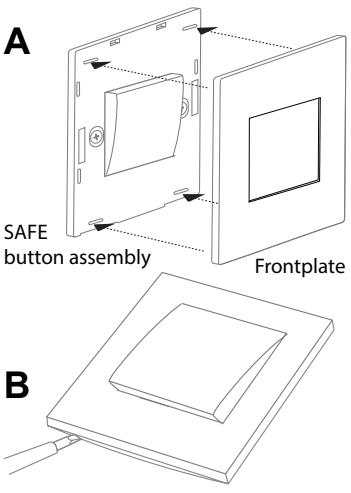
a. Locate the top and bottom hooks on the back of the *Frontplate* into the holes on the top and bottom of the *SAFE button assembly* (**A**).

b. Gently push along the top edge of the *Frontplate* then push the bottom edge to lock.

How to remove the frontplate:

a. Carefully insert a 4mm flat bladed screwdriver into the slots provided along the bottom edge of the *Frontplate* **(B)**.

b. Carefully twist the screwdriver and lift the *Frontplate* away disengaging the snap fits.



Configuration instructions

Using the Commissioning tool at V1.34 to setup an Area to manage Area Alarms.

SAFE System Double button - Operating instructions

The SAFE System Double button switch is used to manage alarms in an Area of a building. The button is used to silence the alarms in the defined Area on occurrence of an Event such as the detection of first smoke in the Area, thus giving time to clear the cause, such as removal of smoke from burnt toast in the Area. The button can also be used to disable detection in the Area during non Event condition to manage false alarm that may be caused by for example; temporary maintenance work being carried out in the Area. The second use of the button is to Test alarms in an Area to confirm the Area alarms are working.

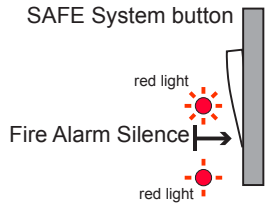
To Silence Area Alarms with Area Alarms active

Upon occurrence of an Event like '1st smoke detection' in an Area and with the Area Alarms active:

a. Press the button downwards to activate **Fire Alarm Silence** and keep it pressed until the red light 'LED' on the switch is lit and then release the button. The Area alarms are silenced for the default 2 minutes *Validation* duration, can be longer if configured during commissioning.

   At 32 seconds prior to the end of the default 2 minutes the red light 'LED' on the switch will give a flashing indication and the Area alarms will give out an Alert sound. During this time you can press the **Fire Alarm Silence** again to activate an extended delay of 2 minutes, which can be longer if configured for your site and at the end of this time:
   - If smoke had cleared then the Area Alarms will be silenced. The panel display will hold for a further duration before the an Automatic reset and return to normal condition.
   - If smoke is still present then a full cause and effect evacuate alarms are activated.

With active Area Alarms

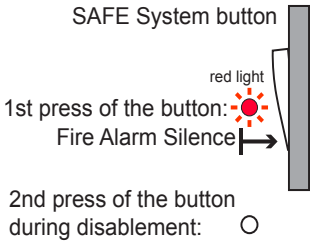


To Disable Area smoke detection under Normal Non Event condition

Under normal panel healthy condition, such as during Non Event it is possible to disable Area smoke detection for 15 minutes. This duration can be longer up to 4 hours 15 minutes if configured for your site:

a. Press the button downwards to activate **Fire Alarm Silence** on the switch and keep it pressed until the red light 'LED' on the switch is lit and then release the button. This will result in the Area smoke detection being disabled for 15 minutes.
   To re-enable the Area smoke detection over the smoke disablement period press and hold the **Fire Alarm Silence** until the red light on the switch turns off and then release the button, this will re-enable the Area smoke detection.

During normal (non fire) condition



b. During the last 32 seonds of disablement duration a warning is given by flashing red LED on the switch to inform the Area detection is about to be re-enabled. You can extend the disablement by a further 15 minutes by pressing the **Fire Alarm Silence** button. When the switch is operated in this manner it is possible to further disable detection of another 15 minutes.

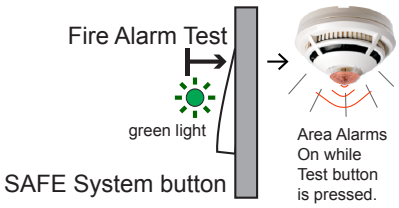
To Test the Area Alarms

The Area Alarms can be tested during normal condition to check they are working:

a. Press the button upwards to activate **Fire Alarm Test** and keep it pressed until the green light 'LED' on the switch is lit, the Area alarms will switch On.

b. On completion of the test release the **Fire Alarm Test** button. The Area Alarms will continue to sound for 5s and then stop. The green light 'LED' on the switch will turn Off.

During normal (non fire) condition



Warden Area Operation

If a Warden Area is configured then the Warden Area Alarms will operate with the linked Area Alarms. A Warden Area is an area in a building accessible to responsible person(s).

Monthly Test

We recommend the SAFE System button is tested on a monthly basis by activating the **Fire Alarm Test** button.

Maintenance

Clean the SAFE System Double button switch with a dry and soft lint free cloth.

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

Technical data

Dimensions	*85mm height x 85mm width x 25mm depth + terminal block*
Finish	*White / Red / Stainless steel*
Weight	*120g approximate*
Terminal Block	*2.5mm²*

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste.
Do not burn.

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User Guide

SAFE System Single button
(SAFE-WHITE-S-KIT)

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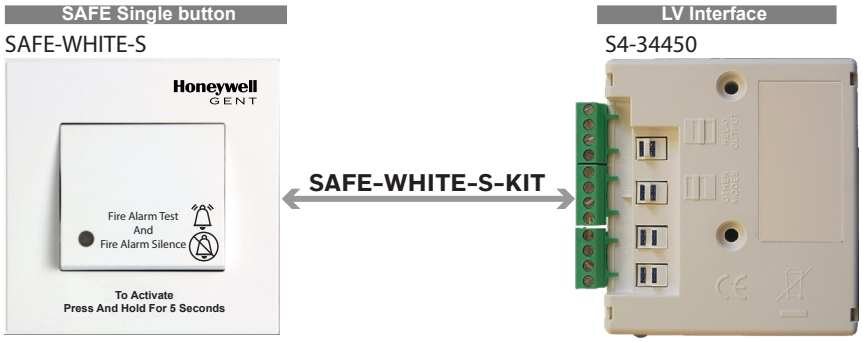


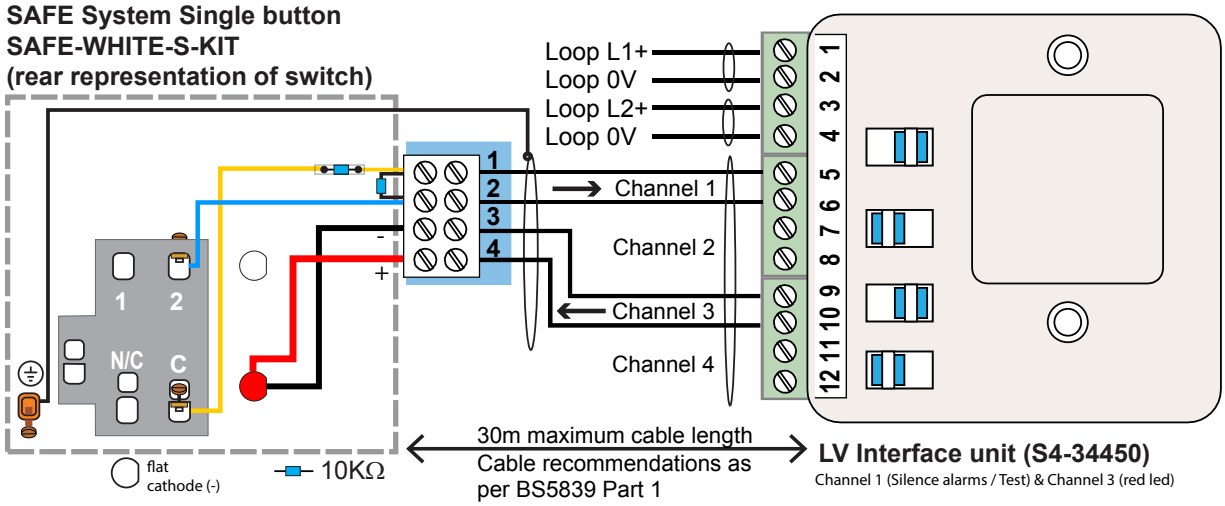
The SAFE system Single Button (switch) is used to manage Area Alarms in a Vigilon Plus Fire System. The SAFE button is available in White enclosure and is supplied with an LV Interface. The kit consists of a:

- SAFE button
- LV Interface

Installation instructions

- Do not test the Safe System button switch with an insulation tester
- Do not use electric screwdriver or power tool to tighten screws to secure the product
- Ensure all wire connections to the switch terminal block are securely fitted.

Wiring

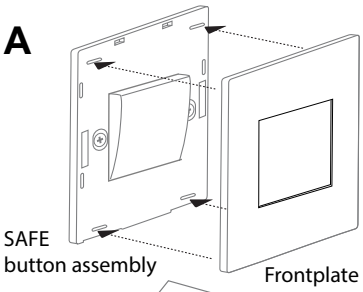


Backbox

a. Ensure the backbox is deep enough to accommodate the SAFE System button assembly before it is fitted to a wall, see section headed 'Technical data' for overall dimensions.

b. The SAFE System Single button is wired to an LV interface unit as illustrated above using recommended cable, see Cables section in the panel installation manual. Use the fixing screws provided to secure the *SAFE button assembly* to the backbox. To optimise frontplate installation do not overtightened the fixing screws.

c. Make adjustments so that the *SAFE button assembly* and backbox sit squarely on the wall.



Frontplate

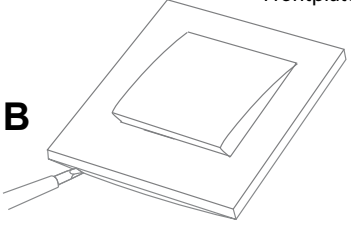
a. Locate the top and bottom hooks on the back of the *Frontplate* into the holes on the top and bottom of the *SAFE button assembly* (**A**).

b. Gently push along the top edge of the *Frontplate* then push the bottom edge to lock.

How to remove the Frontplate:

a. Carefully insert a 4mm flat bladed screwdriver into the slots provided along the bottom edge of the *Frontplate* (**B**).

b. Carefully twist the screwdriver and lift the frontplate away disengaging the snap fits.



Configuration instructions

Using the Commissioning tool V1.34 to setup an Area to manage Area Alarms.

SAFE System Single button - Operating instructions

The SAFE System Single button is used to manage alarms in an Area of a building. The button is used to silence the alarms in the defined Area on occurrence of an Event such as the detection of first smoke in the Area, thus giving time to clear the cause, such as removal of smoke from burnt toast in the Area. The button can also be used to test Area Alarms.

To Silence Area Alarms with Area Alarm active

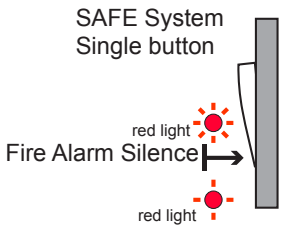
Upon occurrence of an Event like '1st smoke detection' in an Area and with the Area Alarms active:

Press the button downwards to activate **Fire Alarm Silence** and keep it pressed until the red light 'LED' on the switch is lit and then release the button. The Area alarms are silenced for the default 2 minutes *Validation* duration, can be longer if configured during commissioning.

At 32 seconds prior to the end of the default 2 minutes the red light 'LED' on the switch will give a flashing indication and the Area alarms will give out an Alert sound. During this time you can press the **Fire Alarm Silence** again to activate an extended delay of 2 minutes, which can be longer if configured for your site and at the end of this time:

- If smoke had cleared then the Area Alarms will be silenced. The panel display will hold for a further duration before the an Automatic reset and return to normal condition.
- If smoke is still present then a full cause and effect evacuate alarms are activated.

During active Area alarms



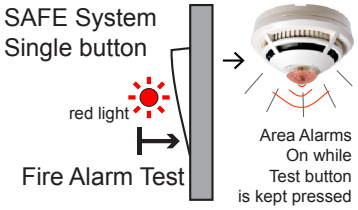
To Test the Area alarms

The Area Alarms can be tested during normal condition using the button to check they are working:

a. Press the button downwards to activate **Fire Alarm Test** on the switch for about 5s until the red light 'LED' on the switch is lit, the Area alarms will switch On.

b. On completion of the test let go of the **Fire Alarm Test** button. The Area Alarms will continue for 5s and then stop. The red light 'LED' on the switch will turn Off.

During normal (non fire) condition



Warden Area Operation

If a Warden Area is configured then the Warden Area Alarms will operate with linked Area Alarms. A Warden Area is an area in a building accessible to responsible person(s).

Monthly Test

We recommend the area alarms are tested on a monthly basis by activating the Fire Alarm Test button.

Maintenance

Clean the SAFE System Single button switch with a dry and soft lint free cloth.

Technical data

Dimensions	*85mm height x 85mm width x 25mm depth + terminal block*
Finish	*White*
Weight	*120g approximate*
Terminal Block	*2.5mm²*

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
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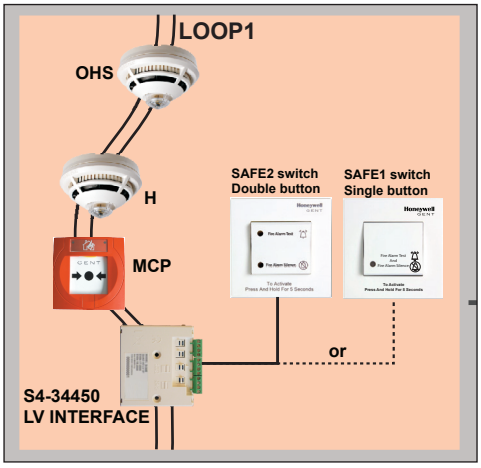
SAFE System buttons
(SAFE-XX...-X-KIT)



AREA 1

An Area consists of a number of devices within a dwelling.

This Part 3 of this leaflet covers general commissioning information for installed kit:

- SAFE-SS-D-KIT
- SAFE-WHITE-D-KIT
- SAFE-RED-D-KIT
- SAFE-WHITE-S-KIT

Compatibility

The *SAFE Double button (SAFE2)* or *SAFE Single button (SAFE1)* switch when used with an *LV Interface unit (S4-34450)* is fully compatible with Vigilon Plus or Vigilon Compact Plus Control panel having:

- MCC/MCB at minimum V4.57
- LPC at minimum V4.52
- NWC – No minimum required
- IOC at minimum V4.16 – only when IOC is used to connect to a printer
- MRC at minimum V1.09 - for Loop Repeat and Mimic panels
- Use Commissioning tool at V1.34 to configure the SAFE System buttons.

General

The following procedures show how to configure an LV interface for SAFE1 and SAFE2 operation. First ensure the SAFE System button (switches) installed is correctly wired to the corresponding LV interface unit, see User Guide Parts 1 or 2 of this leaflet.

To set the links on LV Interface

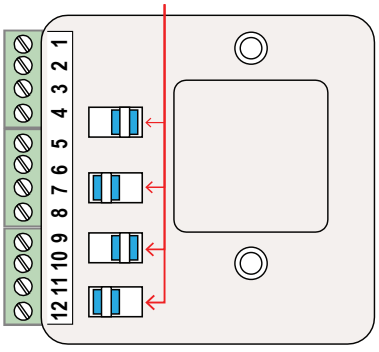
The settings of the links on an LV Interface unit is dependant on whether it is a Double (SAFE2) or Single (SAFE1) button that is connected to the associated LV interface. So set the links on the LV Interface as illustrated below.

SAFE1
(SAFE-WHITE-S)

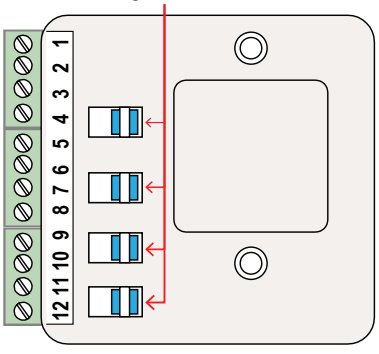
Link settings for Single SAFE button

SAFE2
(SAFE-SS/WHITE/R-D)

Link settings for Double SAFE button



LV Interface unit (S4-34450)
Channel 1 (Silence alarms / Test) & Channel 3 (red led)



LV Interface unit (S4-34450)
Channel 1 (Silence alarms) & Channel 3 (red led)
Channel 2 (Test) & Channel 4 (green led)

Steps to configure a SAFE2 Double button or SAFE1 Single button system

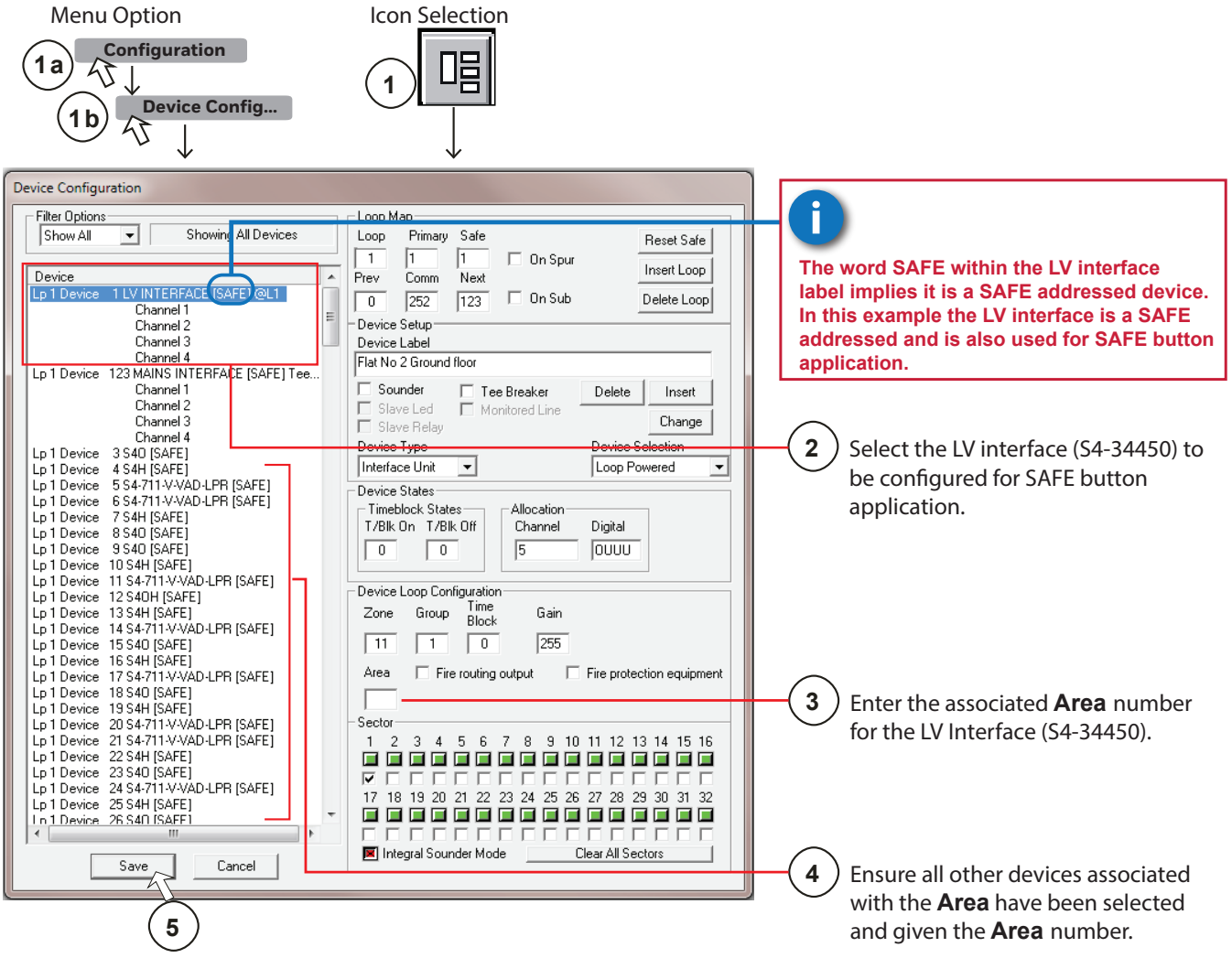
1. Associate LV Interface and devices to an **Area**.
2. Configure LV interface (S4-34450) Channels for SAFE2 (Double button) or SAFE1 (Single button) application.
3. Configure **Area** for SAFE2 or SAFE1 operation.
4. Test the SAFE Button System to project requirements.

1. To configure an LV Interface unit and associate it to an Area

Use only Commissioning tool at V1.34 to configure the LV interface unit (S4-34450) when used for SAFE button applications.

- Connect the Commissioning tool to the Vigilon or Vigilon Compact Control panel and assign an Area to the LV Interface unit.

  Follow illustrated steps ①②....④..to assign the LV Interface unit to an Area:



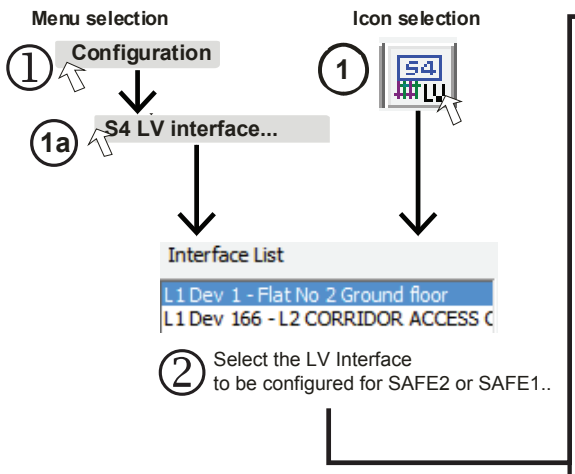
- Ensure all other devices associated with the **Area** have been selected and given the **Area number.**

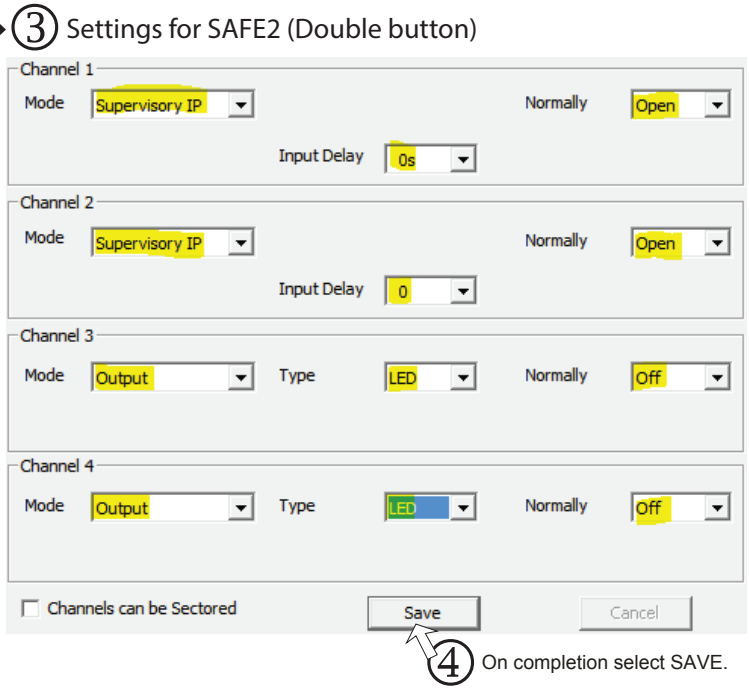
2. To configure LV Interface channels for SAFE2 and SAFE1 applications

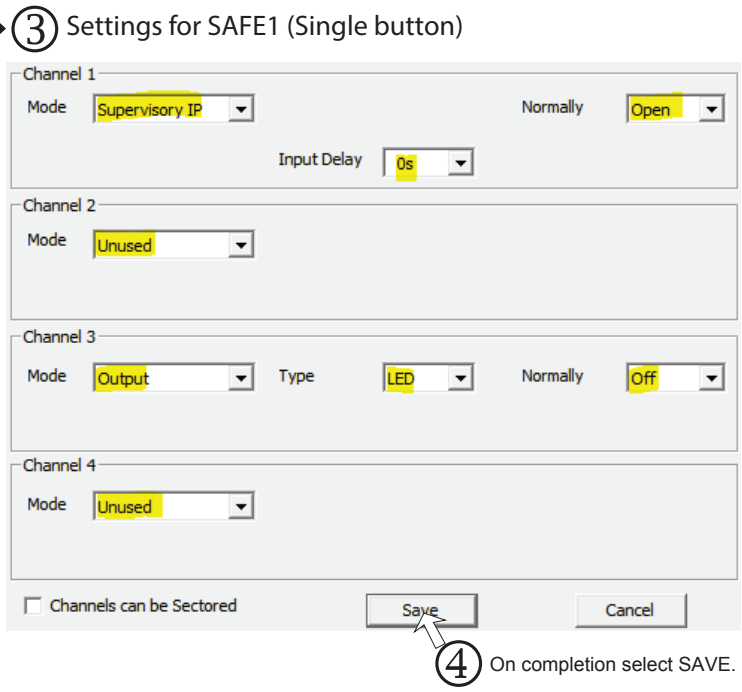
Use only Commissioning tool at V1.34 to configure the LV interface unit (S4-34450) channels for SAFE2 (SAFE Double button) and SAFE1 (SAFE Single button) applications.

- Connect the Commissioning tool to the Vigilon or Vigilon Compact Control panel and select LV Interface and setup channels.

  Follow illustrated steps ①②....④..to setup the LV Interface unit channels for SAFE2 and SAFE1:



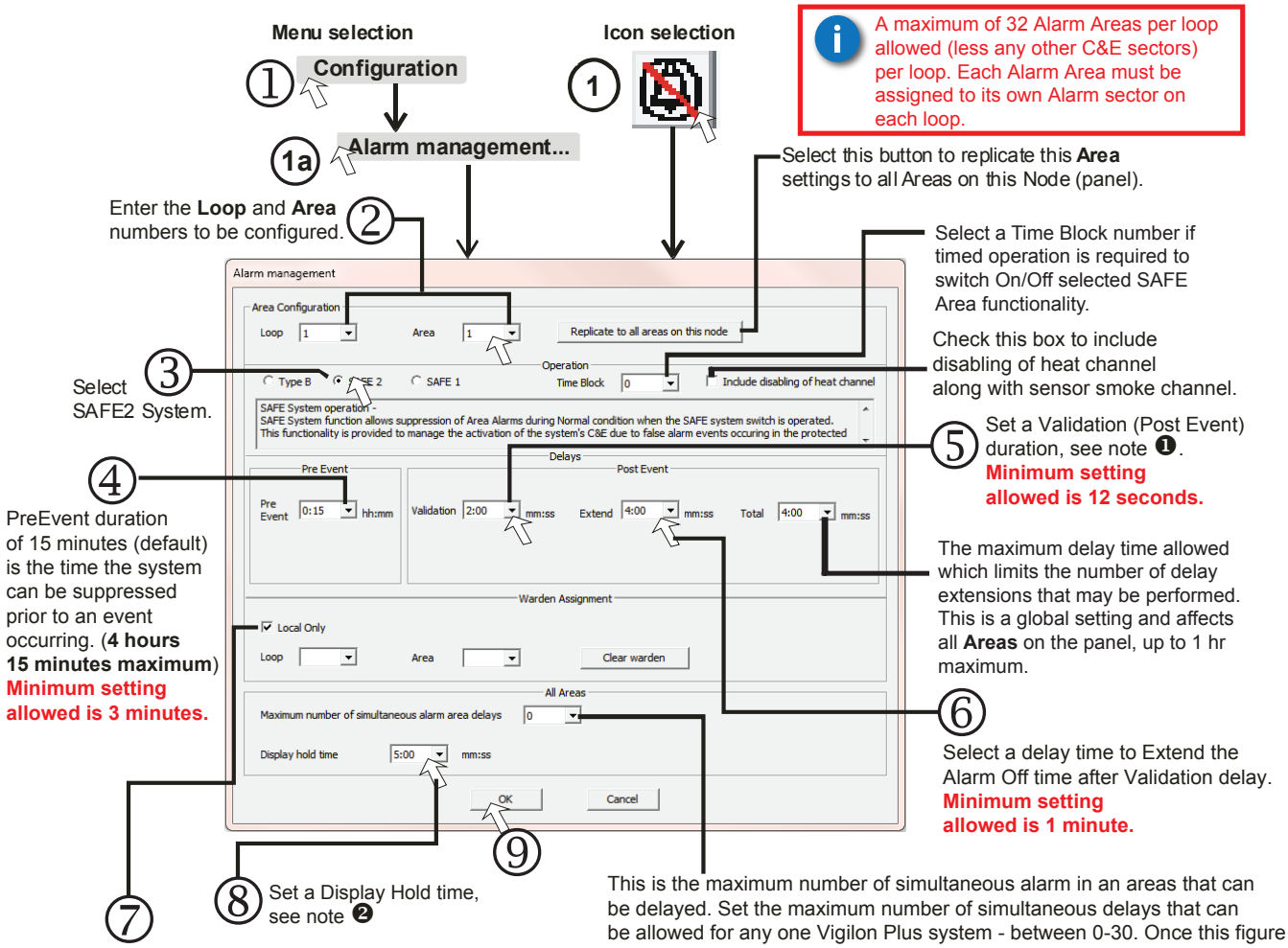




3a. To configure an Area for SAFE2 Double button operation

Identify the **Area** and **Loop** in the system associated with a SAFE2 Double button that is required to be configured.

- Follow illustrated steps ①②....④..to configure a SAFE2 Double button in an Area:



❶ A Post Event 'Validation' is a duration after 1st event detection in an Area over which the Area alarms remain Off. Note a Post Event duration of more than 4 minutes does not comply with standard EN54 Part 2 clause 7.12.2.

❷ A Display Hold time is a duration over which the panel display is held in Confirmation state. A Display Hold time of less than 5 minutes does not comply with standard EN54 Part 2 clause 7.12.2.

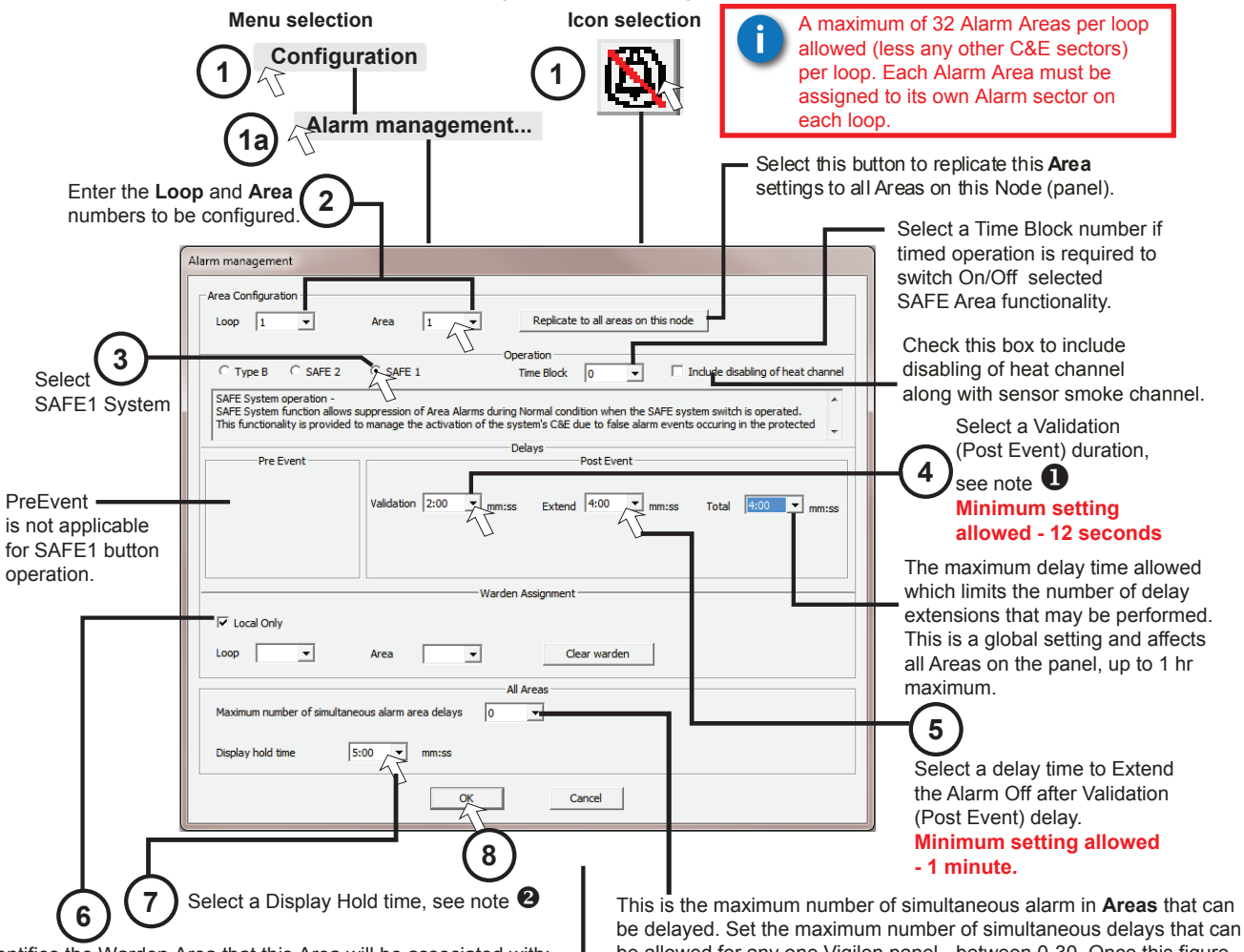
❸

From	To	Upper limit
400+	300	**30**
300	200	**24**
200	100	**14**
100	50	**8**
50	0	**4**

3b. To configure an Area for SAFE1 Single button operation

Identify the **Area** and **Loop** in the system associated with a SAFE1 Single button that is required to be configured.

- Follow illustrated steps ①②....④..to configure a SAFE1 Single button in an Area:



❶ A Post Event 'Validation' is a duration after 1st event detection in an Area over which the Area alarms remain Off. Note a Post Event duration of more than 4 minutes does not comply with standard EN54 Part 2 clause 7.12.2.

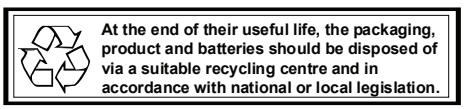
❷ A Display Hold time is a duration over which the panel display is held in Confirmation state. A Display Hold time of less than 5 minutes does not comply with standard EN54 Part 2 clause 7.12.2.

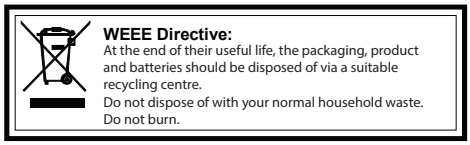
❸

From	To	Upper limit
400+	300	**30**
300	200	**24**
200	100	**14**
100	50	**8**
50	0	**4**

4. Test

Test the SAFE System Single button (SAFE1) and SAFE System Double button (SAFE2) to project requirements, see operating instructions in Parts 1 and 2 for information.





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Operating instructions for SAFE system Double and Single button switches

The SAFE System switches are used to manage alarms in an 'Area' which can be a dwelling inside a building.
Note: The Area alarm delays will be different if your site has custom time delays.
This illustrated steps below shows what happens when using the SAFE system with standard default delay settings.

Event Detection and Area Alarm management

1. 1st Event detected in an AREA.

2. AREA alarms switches On Alert sound, also known as Signal 1.

If an MCP has operated or a 2nd Fire 'Heat' detected with 1st Event still present then the Evacuate Alarm sounds site-wide to Cause and Effect configuration.

SAFE button is NOT operated

After 2 minutes **Validation** delay the Evacuate Alarm sounds site wide to Cause and Effect configuration.

3. **SAFE button is operated** within 2 minutes after 1st Event of smoke detection to activate **Validation delay.**

Press the button downwards to activate **Fire Alarm Silence** and keep it pressed until the red light 'LED' on the switch is lit and then release the button.

4. AREA alarms are switched OFF for remaining **Validation delay.**

AREA alarms are switched OFF for an **Extended 2 minutes delay.**

5. With 32 seconds to go the Alert tone Signal 1 sounds again allowing the tenant to **Extend** the time delay by pressing **Fire Alarm Silence** again, if the extension period permits it, based on how your system delay is configured.

At the end of the **delay**:

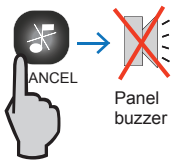
a) If the 1st Event remains in the Area and the **Validation/Extended** time delay has expired then the System goes into full Cause and Effect Fire Condition, with Evacuate alarms, known as Signal 2.

EVACUATION ALARMS

b) If the 1st Event has cleared then the Area Alarms are automatically silenced.

If the Event re appears and is detected in the same Area after the Alarms are silenced then the sequence restarts from ①

Control Panel



The Display is held for 5 minutes after detection of 1st Event, the Smoke detection. At the end of the 5 minutes period an automatic Panel Reset happens to return the panel to Normal condition.

Fire
Zones n

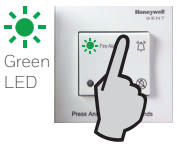
```
Fire 1 01:59                    15:45
1stCONF::Zone 1

First Fire occurred at:
Time: 14:43.10  Sat  4 May 2019
```

Area Alarm Test

The Alarms in an Area must be tested on a monthly basis to check they are working.

The 'Area Alarm Test' must be done during Normal Non-Event condition only.

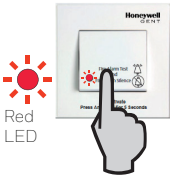
Using the Double SAFE Button



Press the button upwards to activate **Fire Alarm Test** and keep it pressed until the green light 'LED' on the switch is lit and then release the button to STOP the Test.

OR

Using the Single SAFE Button:



Press the button downwards to activate **Fire Alarm Test** and keep it pressed until the red light 'LED' on the switch is lit and then release the button to STOP the Test.

To Disable Area Smoke Detection

Under normal panel healthy condition, such as during Non Event condition, it is possible to disable 'switch Off' the Area's smoke detection.

① **Using the Double SAFE Button only:**

Press the button downwards marked 'Fire Alarm Silence' on the switch and keep it pressed until the red light 'LED' on the switch is lit and then release the button. This will result in the Area smoke detection being disabled for 15 minutes.

Over the smoke disablement period of 14 minutes 28 seconds pressing the 'Fire Alarm Silence' button and by keeping it pressed until the red LED on the switch turns Off, this will re-enable the Area smoke detection.

During the last 32 seconds of the 15 minutes of the disablement period a warning is given by a flashing red LED on the switch to inform the Area detection is about to be re-enabled. The detection is re-enabled if no action was taken to press the SAFE button.

② **Extension of Disablement:**

During the last 32 seconds of the 15 minutes detector disablement period you can extend the disablement by a further 15 minutes by pressing the 'Fire Alarm Silence' button.

When the switch is operated in this manner it is possible to further disable Area smoke detection for further 15 minutes with a maximum total disablement period of up to 1 hour