English

Tunstall

Installation guide

Interconnected smoke alarm

Art. no. 1423801

Works with Lifeline Digital, Careline, Lifeline Smart Hub and Lifeline Vi/Vi+

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Interconnected smoke alarm, Art. no. 1423801

Tunstall declares that this radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following address: https://www.tunstall.com/declaration-of-conformity

Transmitting power: The transmitted power in the actual frequency band is less than 1mW e.r.p.

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Table of Contents

1. Safety instructions 4
2. Introduction 5
   2.1. Functionality 5
      2.1.1. Software version 5
      2.1.2. Power on/off 6
      2.1.3. Button actions 6
      2.1.4. LED indicator 6
      2.1.5. Guide light 7
      2.1.6. Cancel function 7
      2.1.7. Speech messages 7
      2.1.8. Alarm state 8
      2.1.9. Communication tests 8
   2.2. What´s in the box 9
3. Overview 10
4. Recommended placement 11
   4.1. Ceiling mounting 12
   4.2. On a sloping ceiling 12
   4.3. Environmental properties 12
   4.4. Unsuitable places for installation 12
5. Registration (mandatory) 14
   5.1. Register a controller device 14
   5.2. Interconnect smoke alarms 14
   5.3. Delete interconnected smoke alarm 15
   5.4. Replacing a smoke alarm 15
      5.4.1. Replace a controller device 15
      5.4.2. Replace a worker device 15
6. Connecting to hub 16
   6.1. Connect to Lifeline Digital 16
   6.2. Connect to Careline 19
   6.3. Connect to Lifeline Smart Hub 21
   6.4. Connect to Lifeline Vi/Vi+ 23
   6.5. Connect to Communicall 24
   6.6. Replacing the hub 24
7. Installation 25
   7.1. Configure location code 25
      7.1.1. Configure location in DMP 25
      7.1.2. Configure location in Tunstall+ App 26
      7.1.3. Configure location in PC Connect 27
8. Disconnecting from hub 28
   8.1. Disconnect from Lifeline Digital 28
   8.2. Disconnect from Careline 29
   8.3. Disconnect from Lifeline Smart Hub 30
   8.4. Disconnect from Lifeline Vi/Vi+ 30
9. Maintenance and cleaning 31
   9.1. Manual alarm test 31
   9.2. Communication test 31
   9.3. Battery 32
      9.3.1. Battery life 32
      9.3.2. Low battery 32
   9.4. Cleaning 32
10. Disposal and recycling 33
11. Technical data 34

1. Safety instructions

- The smoke alarm generates a powerful and shrill noise, which can be harmful to your ears. Keep at least a 50 cm distance from the alarm while performing the function test.
- Never paint the smoke alarm.
- Smoke alarms will always identify the smoke of a fire. They will not identify the flame itself.
- Smoke alarms are not able to extinguish any fire. In case of alarm evacuate the building and call the fire service.
- The smoke alarm is capable to survey only a defined zone around its own position. For optimum protection, ensure that a sufficient number of alarms are installed in the area to be monitored.
- The smoke alarm has a built-in battery, please dispose properly according to WEEE.
- Do not dispose into a fire or a hot oven, or by mechanically crushing or cutting. It could lead to explosion or leakage of flammable liquids or gases.
- Do not use, store or carry it any place where it may be exposed to extremely high temperature or extremely low air pressure.
- Never charge the battery that comes with the smoke alarm.
- Do not use other battery than the built-in.

2. Introduction

The interconnected smoke alarm is a wireless smoke alarm designed to detect smoke and give an early warning if a fire should start. It can easily be connected to other smoke alarms to form a system. If one smoke alarm detects smoke and triggers an alarm, radio signals are sent to other smoke alarms and all alarms will sound. The system can include up to 15 smoke alarms (including controller device).

The smoke alarm has a range of up to 100 metres depending on its position, the design of the building and the materials used in the building. A communication test should always be performed after installation.

The smoke alarm can be used stand-alone or connected to a Tunstall hub through social alarm radio to communicate with the alarm receiver or ARC (Alarm Receiving Center) operator.

2.1. Functionality

- Battery powered interconnected radio smoke alarm using the scattered light method
- Early and reliable fire detection through precise adjustment of the release characteristics
- Outstanding operating safety by intelligent analysis of the measuring chamber signal
- Light guide for evacuation
- Voice alarm gives clear indication of what the danger is and where it is located
- Provides precise smoke detection and powerful alarm signal of more than 85 dB(A) close to the alarm in case of fire
- Operating temperature range –10°C up to +55°C
- Wireless linking to a hub, via 869.2125 MHz European Social Alarm Frequency
- Wireless interconnection between smoke alarms using 868.150 MHz Frequency
- Typical radio frequency range 100 metres in open air

2.1.1. Software version

The smoke alarm is now available in a new version with updated software. The new version 1.2 replaces the previous version 1.0.

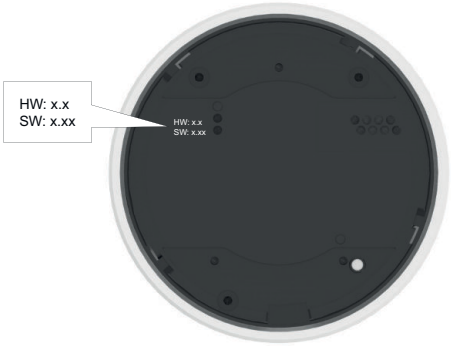
New features in software version 1.2:

- **Deactivate auto presence** - it is possible to deactivate auto presence if the Tunstall classic protocol is used. See Communication tests, page 8 for information on how to deactivate auto presence.

  Auto presence is always activated when the smoke alarm is delivered.
- **Beep only** - you can select “Beep only” in the language menu if you do not want to have speech messages activated, see Languages, page 7.

NOTE
It is **NOT** possible to combine smoke alarms with different software versions in the same system.

The software version is printed on the back of the smoke alarm.



2.1.2. Power on/off

The smoke alarm is delivered with the bracket mounted in a shipping position (upside down).

Power on

- Attach the bracket

or

- Without bracket: long press front button (over 6 seconds)

When powered on, the green LED is flashing.

Power off

- Remove the bracket and long press the front button (over 6 seconds)

The red LED is flashing and then it powers off with a down sweep tone.

2.1.3. Button actions

The smoke alarm has a big front button and a smaller button on the back.

- Short press - press 0.2 to 1 seconds
- Long press 1 - press over 3 seconds, less than 6 seconds
- Long press 2 - press over 6 seconds

	Front button			**Back button**		**Front button + back button**
	Long press 2	Long press 1	Short press	Long press 2	Short press	Long press 1
With bracket in normal state	---	Alarm test	Communication test	---	---	---
With bracket in alarm state	---	---	Halt alarm temporarily	---	---	---
Without bracket	Power ON/OFF	---	**In registration mode** Select language	Delete registration	Send registration packet to both hub and smoke alarm controller. **In registration mode** Set language (in the language setting mode) Even if the device has already registered with hub, send registration packet (resume)	Interconnection registration mode.

2.1.4. LED indicator

Red/Green LED (1) is located on the front of the device.

2.1.5. Guide light

A white guide light will illuminate the floor if an alarm is triggered.

2.1.6. Cancel function

The smoke alarm has a cancel function, which allows you to turn off the alarm signal in the event of a false alarm.

NOTE
When you turn off the alarm signal, the LED will stay on for 10 minutes.

When the smoke alarm is in the smoke alarm state, you can halt sounding temporarily by pressing the front button (0.2 to 1 seconds). The temporary alarm halt duration is 10 minutes. After 10 minutes, the smoke alarm returns to normal operating mode (it will start sounding again if the fire alarm state remains).

2.1.7. Speech messages

2.1.7.1. Languages

The smoke alarm supports 9 languages. It is also possible to select beep only if you do not want speech messages activated.

These are the languages that the smoke alarm speaks during setup, alerts and emergency alarms.

1 (default)	English
2	Swedish
3	Norwegian
4	Danish
5	German
6	French
7	Spanish
8	Finnish
9	Dutch
10	Beep only[a.]

[a.] Only available in software version 1.2.

2.1.7.2. Change language

NOTE
Language can only be changed on the controller smoke alarm. All other smoke alarms follows the controller's language settings.

a) Press and hold both front and back button over 3 seconds to enter "Registration mode".

b) Short press the front button (0.2 to 1 seconds) to enter "Language mode". The smoke alarm beeps and the currently set language is announced. The green and red LED are also flashing.

c) Short press the front button (0.2 to 1 seconds) to change language.

d) Short press the back button (0.2 to 1 seconds) to set language.

When the language is set, the smoke alarm beeps and announces "Registration mode, Swedish".

e) Press and hold both front and back button over 3 seconds to enter "Normal mode".

2.1.7.3. Messages

1. Warning Fire Alarm
2. Warning Fire Alarm in another room
3. Check detector
4. Low battery
5. Test completed successfully
6. No connection
7. Registration mode
8. Registration completed successfully
9. Language mode
10. Normal mode
11. Registration delete completed successfully
12. Error

2.1.8. Alarm state

If a smoke alarm detects smoke an alarm is triggered. The device will beep and announce "Warning Fire Alarm", and the LED is flashing red.

A white guide light will illuminate the floor.

Using the interconnection function, other smoke alarms will also be beeping and flashing red. They will also announce "Warning Fire Alarm in another room".

When the smoke alarm restores from alarm state, it will stop beeping and flashing, and notify restore status to the hub.

2.1.9. Communication tests

2.1.9.1. Communication test (auto presence)

Every 23 hours the communication between the hub and the smoke alarms is automatically tested.

For smoke alarms with software version 1.2 it is possible to deactivate auto presence if the Tunstall classic protocol is used. The software version is printed on the back of the smoke alarm, see Software version, page 5. Auto presence is always activated when the smoke alarm is delivered.

Check auto presence mode

You can check if auto presence is activated or deactivated when you switch on the smoke alarm.

a) Make sure the device is switched off.

b) Power on the device.

- LED flashing green = auto presence activated
- LED flashing green and then red = auto presence deactivated

Activate/deactivate auto presence

a) Make sure the device is switched off.

b) Press and hold both front and back button until the LED starts flashing.

- LED flashing green = auto presence activated
- LED flashing green and then red = auto presence deactivated

2.1.9.2. Communication test (interconnection)

Every 25 hours the communication between the interconnected smoke alarms is automatically tested.

2.2. What´s in the box

The smoke alarm box contains:

- Smoke alarm (built-in, non-replaceable batteries included)
- Bracket (the smoke alarm is delivered with the bracket mounted in a shipping position (upside down)
- Screws and plugs

3. Overview

- **Front**

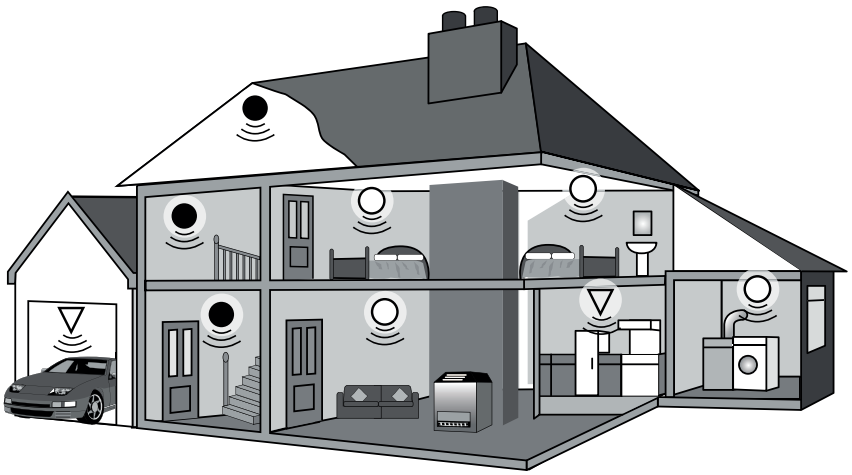
  1. Front button
  2. LED (green/red)

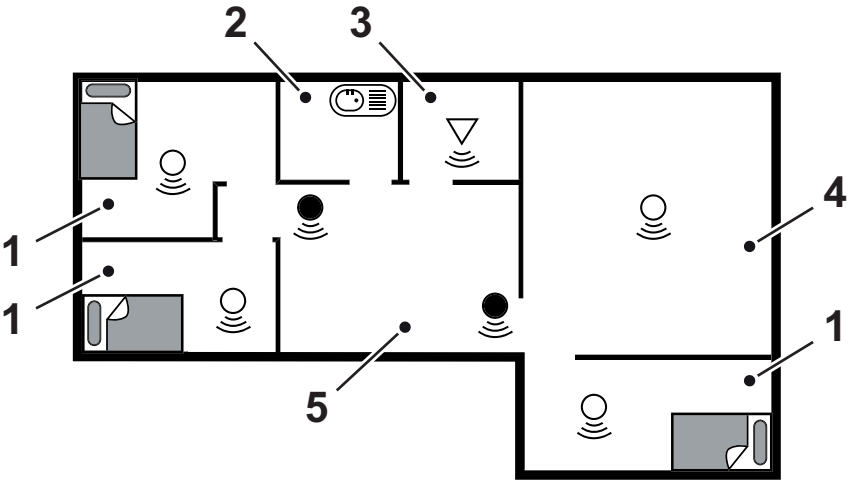
- **Back**

  3. Back button

- **Side**

4. Recommended placement





1. Bedroom
2. Bathroom
3. Kitchen
4. Living room
5. Dining room

For minimum protection

- Smoke alarm on each storey
- Every 7.5 metres of hallways and escape routes
- Within 3 metres of all bedroom doors

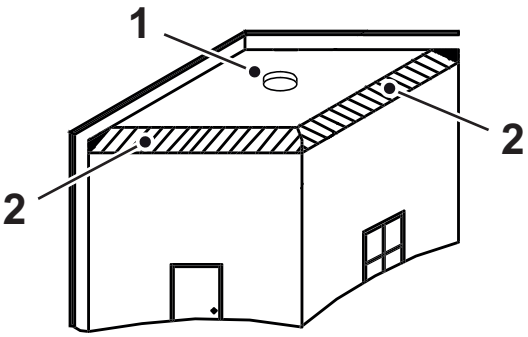
For recommended protection (in addition to the above):

- Smoke alarms in every room (except kitchens and bath-rooms)

- Heat alarms located in kitchens, garages etc. within 5.3m of potential fire sources

4.1. Ceiling mounting

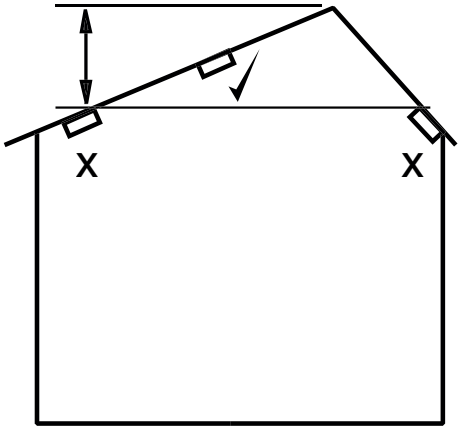
Hot smoke rises and spreads out, so a central ceiling position is the recommended location. The air is “dead” and does not move in corners, therefore smoke alarms must be mounted away from corners. Keep at least 300mm from walls and corners. Additionally, mount the alarm at least 300mm from any light fitting or decorative object which might prevent smoke entering the smoke alarm. We do not recommend wall mounting of smoke alarms.



1. Ideal in centre of ceiling
2. Dead air surfaces never within 300mm of any corner

4.2. On a sloping ceiling

With a sloping or peaked ceiling install a smoke alarm within 600mm of the peak (measured vertically). If this height is less than 600mm it is regarded as being flat.



4.3. Environmental properties

Intended use	Indoor
Mounting position	Ceiling only
Operating temperature	-10 to +55 degrees Celsius
Operating humidity	Max: 90%

4.4. Unsuitable places for installation

To avoid false alarms and malfunctions, never install the smoke alarm:

- inside rooms where heavy vapor, dust or smoke develop under regular conditions (bath, kitchen).
- near to fireplaces and open fires.
- near to ventilation systems. The flow of air may deviate the smoke so it will never reach the alarm.
- near to neon lamps and energy saving lamps. The starter may cause false alarms by electric fields that arise when turning on the lamp (minimum distance: 50cm)

- in edges, for example house gables, in such areas smoke free air can accumulate and the identification of fire is hindered
- inside rooms with temperatures beneath -10°C or above +55°C

5. Registration (mandatory)

Before connecting the smoke alarms to a carephone/hub you need to register one smoke alarm as a controller device. Then you can easily connect other smoke alarms to the controller device to form a system.

NOTE
Even if you only use one smoke alarm, you still have to register it as the controller.

5.1. Register a controller device

NOTE
If you replace the controller device, you have to connect the new controller to the hub and all interconnected smoke alarms must be deleted and then connected to the new controller. For further instructions, see Replacing a smoke alarm, page 15.

a) Select one smoke alarm to be the controller.
b) Mark the device so you can easily identify it later.
c) Press and hold both the front and back button on the smoke alarm (over 3 seconds less than 6 seconds) to activate "Registration mode".

   The device beeps and announces “Registration mode”, and the green LED is flashing. This smoke alarm has now become the controller.
d) If you are only using one smoke alarm, press and hold both front and back button on the controller for over 3 seconds to enter "Normal mode".

   If you are using more than one smoke alarm, connect the other smoke alarms to the controller device according to the instructions in Interconnect smoke alarms, page 14.
e) If you want to change to a language other than English (default), see Change language, page 7.

5.2. Interconnect smoke alarms

When you have registered a controller device, you can connect the other smoke alarms to it.

NOTE
All smoke alarms that will be included in the system needs to be connected to the controller device.

a) Make sure that the controller is in "Registration mode" or press and hold both the front and back button (over 3 seconds less than 6 seconds) to activate "Registration mode".

   The device beeps and announces “Registration mode”, and the green LED is flashing.
b) Select another smoke alarm to connect to the controller.
c) Power on the device.
d) Short press the back button (0.2 to 1 seconds). The smoke alarm confirms with a short beep.

   When registration is completed the smoke alarm beeps again and announces “Registration completed successfully” and the green LED lights up.

   If registration is not completed (no reply from controller) the smoke alarm beeps and announces “Error” and the red LED lights up.

Repeat the steps above for all smoke alarms included in the system.

When registration is completed, press and hold both front and back button on the controller for over 3 seconds to enter "Normal mode".

5.3. Delete interconnected smoke alarm

NOTE
Make sure the smoke alarm is in "Normal mode" before you delete it.

NOTE
If you replace the controller, all interconnected smoke alarms need to be reinstalled.

- To delete an interconnected smoke alarm, press and hold the back button for at least 6 seconds.

  When registration is deleted the device announces ”Registration delete completed successfully” and the green LED lights up.

5.4. Replacing a smoke alarm

5.4.1. Replace a controller device

a) Delete the old controller device according to the instructions in Delete interconnected smoke alarm, page 15.
b) Press and hold both the front and back button on the new controller device (over 3 seconds less than 6 seconds) to activate "Registration mode".

   The device beeps and announces “Registration mode”, and the green LED is flashing. This smoke alarm has now become the controller.
c) Connect the new controller to the hub according to the instructions in Connecting to hub, page 16.

NOTE
All smoke alarms included in the system needs to be connected to the new controller device according to the instructions in Interconnect smoke alarms, page 14.

5.4.2. Replace a worker device

a) Delete the old worker device according to the instructions in Delete interconnected smoke alarm, page 15.
b) Connect the new worker device to the controller device according to the instructions in Interconnect smoke alarms, page 14.
c) Connect the worker device to the hub according to the instructions in Connecting to hub, page 16.

6. Connecting to hub

Make sure that you have registered a controller device according to the instructions in Registration (mandatory), page 14 before starting this procedure. If the smoke alarm is not properly registered the connection to the carephone/hub will fail.

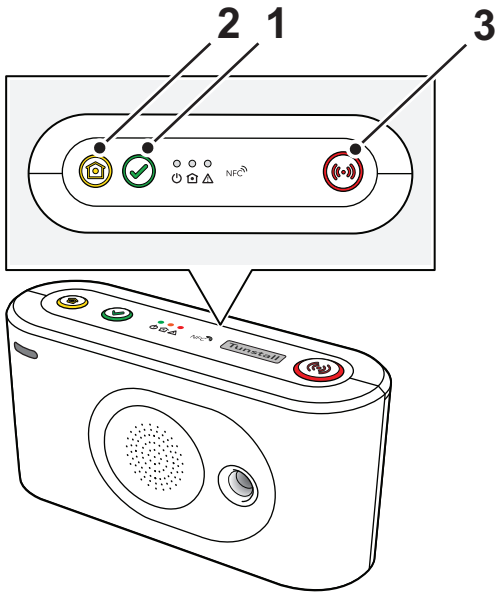
The procedure for connecting the smoke alarm depends on the hub.

NOTE
If several smoke alarms are included in the system, they must all be connected to the hub.

6.1. Connect to Lifeline Digital

a) Make sure that Lifeline Digital and the smoke alarm are switched on and that the smoke alarm is correctly registered according to Registration (mandatory), page 14.

b) Press and hold the green button ①, then press and hold the yellow button ② and red button ③.



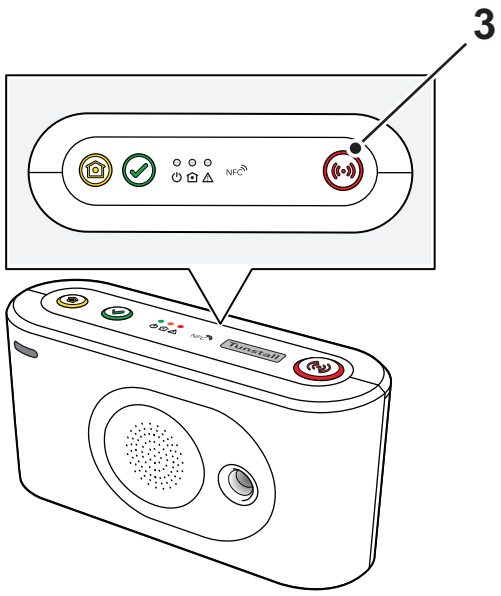
c) Release all buttons when you hear a rising sound signal and the device announces "Programming mode".

The buttons start to flash in unison to indicate that the device is in programming mode.

NOTE
The device automatically exits programming mode if no further buttons are pressed.

d) Press and hold the red button ③.

e) Release the button when the device announces "Auto pairing mode" to automatically connect the smoke alarm to an available radio sensor position or keep the button pressed down until the device announces the number of the specific radio position that you want to connect to.



f) When the device announces "Activate transmitter now", short press the back button ④ (0.2 to 1 seconds) on the smoke alarm.

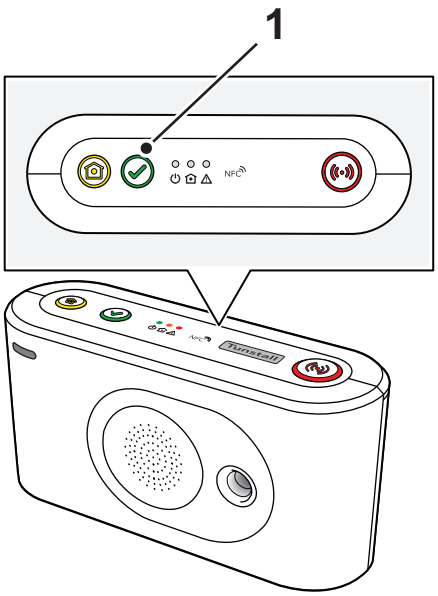
The device announces:

- "Operation succeeded" if a connection was successfully established
- "Operation failed" followed by an error code if a connection was not established:
  - " Error code One" if the radio code could not be stored in the device
  - " Error code Two" if the radio code was already stored in the device

  If the operation fails, make sure that you have registered the smoke alarm correctly according to the instructions in Registration (mandatory), page 14.
- "Battery low" if the battery in the smoke alarm is low

NOTE
If the registration fails, enter programming mode again and short press the back button (0.2 to 1 seconds) on the smoke alarm.

g) Press the green button ① to exit programming mode.



NOTE
To upload the new settings to DMP, you can either press and hold the yellow **Extra** button[1] on Lifeline Digital for approximately 3 seconds to manually connect to DMP or wait for Lifeline Digital to connect to DMP automatically.

NOTE
It is important to note in which room each smoke alarm will be placed. After installation, use DMP or Tunstall+ to configure the location for each smoke alarm in the system. If smoke is detected, the smoke alarm's location is sent to the alarm receiver and is also announced by the voice alarm to give a clear indication of where smoke is detected. To configure the location in the system, see Configure location code, page 25.

h) Before testing the smoke alarm, you need to check which protocol it is using to communicate with Lifeline Digital.

Lifeline Digital can handle both the Tunstall Connected (two-way) protocol and the Tunstall Classic (one-way) protocol, but if you follow the instructions in this manual, the smoke alarm should use the Tunstall Connected protocol.

i. Make sure the smoke alarm is not attached to the bracket.

ii. Short press the front button (0.2 to 1 seconds).

If the LED flashes green it is communicating using the Tunstall Connected (two-way) protocol. In this case, continue to Step i).

If the LED is flashing red it is communicating using the Tunstall Classic (one-way) protocol. In this case, follow the steps below to delete the smoke alarm and then register and connect it again if you want it to use the Tunstall Connected protocol.

iii. Delete the smoke alarm according to the instructions in Delete interconnected smoke alarm, page 15.

iv. Register the smoke alarm according to the instructions in Registration (mandatory), page 14.

v. Connect it to Lifeline Digital.

i) Make sure the smoke alarm is working by pressing the front button for at least 4 sec. A test signal tone and the message "Warning Fire Alarm" is generated. The red LED is also flashing. The signal tone is generated for 1

[1]This function can be reassigned to the green **Cancel** button by your supplier. Contact your supplier if you have any questions.

minute, or until you terminate the test by pressing the front button.

If no signal tone is generated, please let a few minutes pass, then retest.

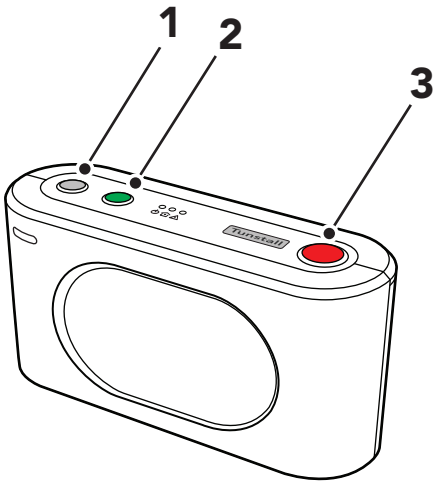
Also make sure that an alarm sounds from Lifeline Digital and that the connected alarm receiver has received the alarm.

6.2. Connect to Careline

a) Make sure that Careline and the smoke alarm are switched on and that the smoke alarm is correctly registered according to Registration (mandatory), page 14.

b) Press and hold the green button ② on the Careline.

c) Press and hold also the grey ① and the red button ③ and keep all buttons pressed until a rising sound signal is heard. Then release all buttons.



d) The device is now in programming mode, indicated by a rolling light between the LED's.

NOTE
If no further buttons are pressed, the device will automatically exit the programming mode. If this happens, you need to start over from the start

e) Press and hold the red button ③. Wait until the device announces the number of the specific radio position that you want to connect to. Then release the button.

f) Short press the back button ④ (0.2 to 1 seconds) on the smoke alarm.

An acknowledgement signal is heard from the hub when the radio code is received.

If the operation fails, make sure that you have registered the smoke alarm correctly according to the instructions in Registration (mandatory), page 14.

NOTE
If the registration fails, enter programming mode again and short press the back button (0.2 to 1 seconds) on the smoke alarm.

g) Press the green button ② on Careline to exit programming mode.

NOTE
To upload the new settings to DMP, you can either press and hold the grey button on Careline for approximately 3 seconds to manually connect to DMP or wait for Careline to connect to DMP automatically.

NOTE
It is important to note in which room each smoke alarm will be placed. After installation, use DMP or Tunstall+ to configure the location for each smoke alarm in the system. If smoke is detected, the smoke alarm's location is sent to the alarm receiver and is also announced by the voice alarm to give a clear indication of where smoke is detected. To configure the location in the system, see Configure location code, page 25.

h) Before testing the smoke alarm, you need to check which protocol it is using to communicate with Careline.

i. Make sure the smoke alarm is not attached to the bracket.

ii. Short press the front button (0.2 to 1 seconds).

If the LED is flashing green it is communicating using the correct Tunstall Connected (two-way) protocol. In this case, continue to Step i) .

If the LED is flashing red it is communicating using the Tunstall Classic (one-way) protocol. In this case, follow the steps below to delete the smoke alarm and then register and connect it again since Careline cannot handle this protocol.

iii. Delete the smoke alarm according to the instructions in Delete interconnected smoke alarm, page 15.

iv. Register the smoke alarm according to the instructions in Registration (mandatory), page 14.

v. Connect it to Careline.

i) Make sure the smoke alarm is working by pressing the front button for at least 4 sec. A test signal tone and the message "Warning Fire Alarm" is generated. The red LED is also flashing. The signal tone is generated for 1

minute, or until you terminate the test by pressing the front button.

If no signal tone is generated, please let a few minutes pass, then retest.

Also make sure that an alarm sounds from Careline and that the connected alarm receiver has received the alarm.

Transmitter position	Alarm type
Transmitter 1	Care alarm
Transmitter 2	Care alarm
Transmitter 3	Care alarm
Transmitter 4	Fire alarm
Transmitter 5[a.]	Door alarm
Transmitter 6[a.]	Bed alarm
Transmitter 7[a.]	Carpet alarm
Transmitter 8	Passive alarm[b.]
Transmitter 9	Care alarm
Transmitter 10	Care alarm
Transmitter 11	Care alarm
Transmitter 12	Care alarm
Transmitter 13	Care alarm
Transmitter 14	Care alarm
Transmitter 15	Care alarm
Transmitter 16	Care alarm

[a.] This only works if your alarm receiver is able to receive these types of alarms. If not, please contact Tunstall support, +46 (0) 20 - 66 11 11.

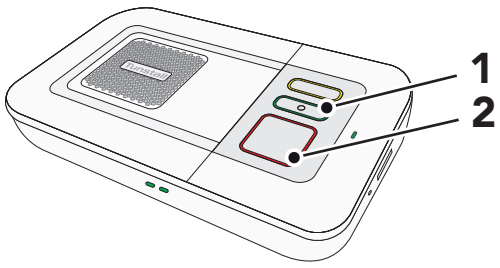
[b.] If you want this alarm to be sent directly when detected you need to change the timeout for passive alarms. This is handled in the Careline Edith software in the tab **Timers**. In the field under *Passive alarm (hours)* enter **0**.

6.3. Connect to Lifeline Smart Hub

a) Make sure that Lifeline Smart Hub and the smoke alarm are switched on and that the smoke alarm is correctly registered according to Registration (mandatory), page 14.

b) Press and hold the green **Cancel** button ① for five seconds until you hear a confirmation tone. Then release the button.

The device announces: "Programming mode" and the red **Help** button ② flashes slowly.



c) Press and hold the green **Cancel** button ① on the device for three seconds until you hear the announcement "Registration mode" and the red **Help** button ② flashes rapidly. Then release the button.

NOTE
The device automatically exits programming mode if no further buttons are pressed.

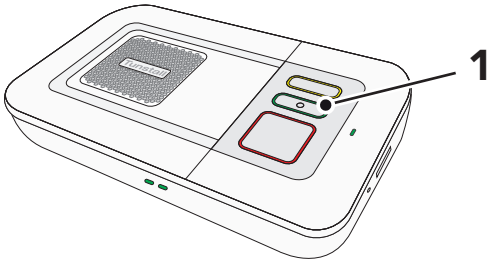
d) Short press the back button ③ (0.2 to 1 seconds) on the smoke alarm.

The Lifeline Smart Hub will confirm receipt of the smoke alarm signal by announcing "Smoke detector registered".

If the operation fails, make sure that you have registered the smoke alarm correctly according to the instructions in Registration (mandatory), page 14.

NOTE
If the registration fails, enter programming mode again and short press the back button (0.2 to 1 seconds) on the smoke alarm.

e) Press the green **Cancel** button ① to exit programming mode. A confirmation tone confirms exiting the programming mode. The red **Help** button lights up continuously.



NOTE
To upload the new settings to DMP, you can either press the green **Cancel** button on the Lifeline Smart Hub or wait for the device to connect to DMP automatically.

NOTE
It is important to note in which room each smoke alarm will be placed. After installation, use DMP or Tunstall+ to configure the location for each smoke alarm in the system. If smoke is detected, the smoke alarm's location is sent to the alarm receiver and is also announced by the voice alarm to give a clear indication of where smoke is detected. To configure the location in the system, see Configure location code, page 25.

f) Make sure the smoke alarm is working by pressing the front button for at least 4 sec. A test signal tone and the message "Warning Fire Alarm" is generated. The red LED is also flashing. The signal tone is generated for 1 minute, or until you terminate the test by pressing the front button.

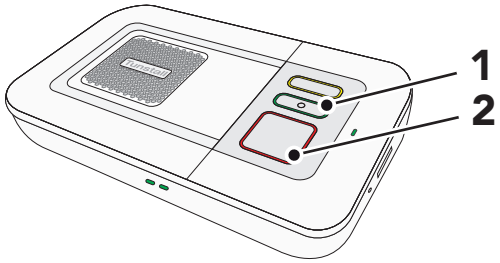
If no signal tone is generated, please let a few minutes pass, then retest.

Also make sure that an alarm sounds from Lifeline Smart Hub and that the connected alarm receiver has received the alarm.

6.4. Connect to Lifeline Vi/Vi+

a) Make sure that Lifeline Vi/Vi+ and the smoke alarm are switched on and that the smoke alarm is correctly registered according to Registration (mandatory), page 14.

b) Press and hold the green **Cancel** button ① for five seconds until you hear a confirmation tone. Then release the button.



The device announces: "Programming mode" and the red **Help** button ② flashes slowly.

c) Press and hold the green **Cancel** button ① on the device for three seconds until you hear the announcement "Registration mode" and the red **Help** button ② flashes rapidly. Then release the button.

NOTE
The device automatically exits programming mode if no further buttons are pressed.

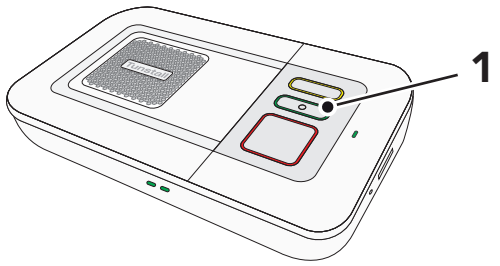
d) Short press the back button ③ (0.2 to 1 seconds) on the smoke alarm.

The Lifeline Vi/Vi+ will confirm receipt of the smoke alarm signal by announcing "Smoke detector registered".

If the operation fails, make sure that you have registered the smoke alarm correctly according to the instructions in Registration (mandatory), page 14.

NOTE
If the registration fails, enter programming mode again and short press the back button (0.2 to 1 seconds) on the smoke alarm.

e) Press the green **Cancel** button ① to exit programming mode. A confirmation tone confirms exiting the programming mode. The red **Help** button lights up continuously.



NOTE
It is important to note in which room each smoke alarm will be placed. After installation, use PC Connect to configure the location for each smoke alarm in the system. If smoke is detected, the smoke alarm's location is sent to the alarm receiver and is also announced by the voice alarm to give a clear indication of where smoke is detected. To configure the location in the system, see the Lifeline Vi/Vi+ "Installation and Programming Guide".

f) Make sure the smoke alarm is working by pressing the front button for at least 4 sec. A test signal tone and the message "Warning Fire Alarm" is generated. The red LED is also flashing. The signal tone is generated for 1 minute, or until you terminate the test by pressing the front button.

   If no signal tone is generated, please let a few minutes pass, then retest.

   Also make sure that an alarm sounds from Lifeline Vi/Vi+ and that the connected alarm receiver has received the alarm.

6.5. Connect to Communicall

For configuration of the smoke alarm for Communicall, please check the user guide for the specific system. The product is compatible with Communicall, Vision, Connect, Connect Vi/ViIP, and Communicall Digital.

We recommend that you disable auto presence if using Communicall, Vision, Connect or Connect Vi/ViIP, as auto presence may cause issues in these systems. See Communication test (auto presence), page 8 for instructions on how to disable auto presence.

6.6. Replacing the hub

If the hub is replaced you need to connect all smoke alarms to the new hub.

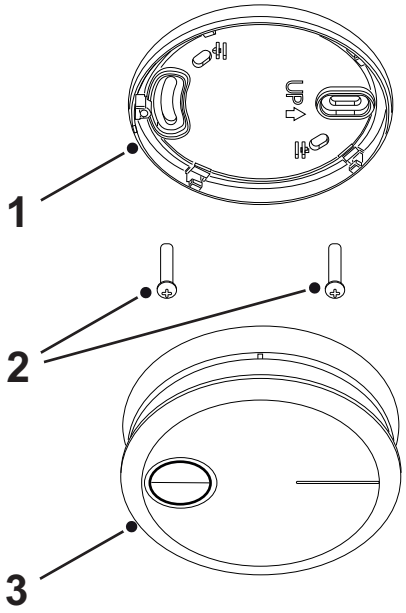
a) Remove the old hub.
b) Install the new hub.
c) Connect all smoke alarms to the new hub according to the instructions in Connecting to hub, page 16.

7. Installation

NOTE
To avoid false alarms and malfunctions, place the smoke alarm according to the instructions in Recommended placement, page 11.

NOTE
Do not allow dust to get into the smoke alarms when drilling during installation. Do not use countersunk head bolts.

a) Mark the two holes you are going to drill in the ceiling by using the holes in the bracket ① as a template.
b) Drill the holes in the ceiling.
c) Fix the bracket ① using the enclosed assembling parts ②.
d) Place the smoke alarm ③ in the bracket and lock it by turning it gently clockwise.



e) Proceed to the function test, see Manual alarm test, page 31.

7.1. Configure location code

If smoke is detected, the smoke alarm's location is sent to the hub and ARC. The smoke alarm announces "Warning Fire Alarm" or "Warning Fire Alarm in another room".

The location can be configured in DMP, Tunstall+ App or PC Connect.

7.1.1. Configure location in DMP

The steps required to configure the location code in DMP differ slightly depending on the hub and are described separately below.

7.1.1.1. Configure location for Lifeline Digital

a) Log in to DMP.
b) Select a device to open the device information window.
c) Click **Settings** to open the device settings page.

d) Click **Radio sensor**.

This displays the sensors currently registered to the unit.

e) Select a smoke alarm from the list.

NOTE
Make sure you configure the correct smoke alarm by comparing the *Radio code* in DMP with the one printed on the back of the smoke alarm.

f) Select location from the drop-down list *Location code*.

g) Click **Save**.

For further instructions, see the DMP user manual.

7.1.1.2. Configure location for Careline

a) Log in to DMP.

b) Select a device to open the device information window.

c) Click **Settings** to open the device settings page.

d) Click **Radio**.

This displays the sensors currently registered to the unit.

NOTE
Make sure you configure the correct smoke alarm by confirming that the *Radio code/Sensor ID* in DMP matches that on the smoke alarm's label.

e) Select location from the drop-down list *Location code*.

f) Click **Save**.

For further instructions, see the DMP user manual.

7.1.1.3. Configure location for Lifeline Smart Hub

a) Log in to DMP.

b) Select a device to open the device information window.

c) Click **Settings** to open the device settings page.

d) Click **Sensor**.

This displays the sensors currently registered to the unit.

e) Select a smoke alarm from the list.

NOTE
Make sure you configure the correct smoke alarm by confirming that the *Radio code/Sensor ID* in DMP matches that on the smoke alarm's label.

f) Select location from the drop-down list *Sensor Location*.

g) Click **Save**.

For further instructions, see the DMP user manual.

7.1.2. Configure location in Tunstall+ App

a) Log in to the Tunstall+ App and select your device.

b) Tap the **Sensors** icon on the navigation bar to load the *Sensors* page.

c) On the *Sensors* page, tap the pen icon.

d) On the *Manage sensors* page, tap the sensor that you want to edit.

NOTE
Make sure you configure the correct smoke alarm by comparing the *Sensor ID* in Tunstall+ with the one printed on the back of the smoke alarm.

e) Select location from the drop-down list *Location code*.

f) Tap **Save**.

To apply the new settings to the device, you can either manually connect to DMP using the buttons on the device or wait for the device to send its next automatic heartbeat.

For further instructions, see the Tunstall+ Configuration App user manual.

7.1.3. Configure location in PC Connect

7.1.3.1. Configure location for Lifeline Vi/Vi+

Location codes for Lifeline Vi/Vi+ are set using PC Connect. For further instructions, see the Lifeline Vi/Vi+ "Installation and Programming Guide".

8. Disconnecting from hub

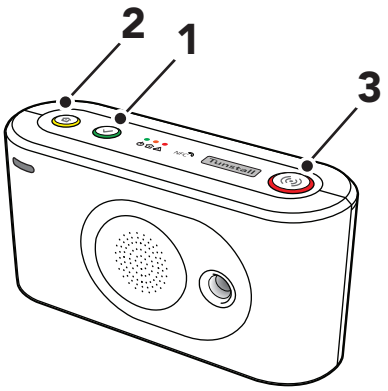
The procedure for disconnecting the smoke alarm depends on the hub.

8.1. Disconnect from Lifeline Digital

To disconnect the smoke alarm from Lifeline Digital:

a) Make sure that Lifeline Digital and the smoke alarm are switched on.

b) Press and hold the green button ①, then press and hold the yellow button ② and red button ③.



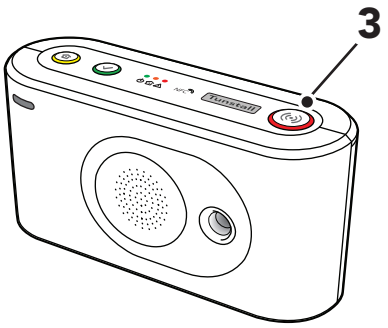
c) Release all buttons when you hear a rising sound signal and the device announces "Programming mode".

The buttons start to flash in unison to indicate that the device is in programming mode.

NOTE
The device automatically exits programming if no further buttons are pressed.

d) Press and hold the red button ③.

e) Release the button when the device announces "Auto pairing mode" or keep the button pressed down until the device announces the number of the radio position that you want to erase.

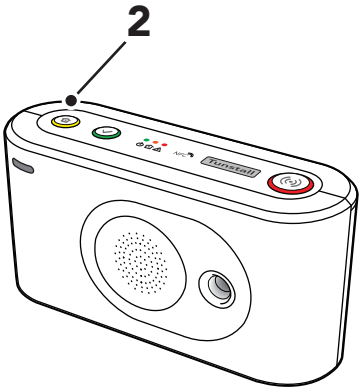


f) Press the yellow button ②:

- If auto paring mode is enabled, short press the back button (0.2 to 1 seconds) on the smoke alarm when the device announces "Erasing - Activate transmitter now".
- If manual paring mode is enabled, the device announces "Erasing" and disconnects the smoke alarm from the selected radio position.

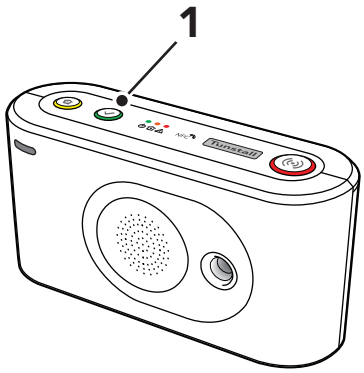
The device then announces:

- "Operation succeeded" if the smoke alarm was successfully disconnected



- "Operation failed" followed by an error code if the smoke alarm failed to disconnect:
  - " Error code Three" if the radio code was not stored in the device
  - " Error code Four" if there was a general failure to erase the radio code from the device

g) Press the green button ① to exit programming mode.

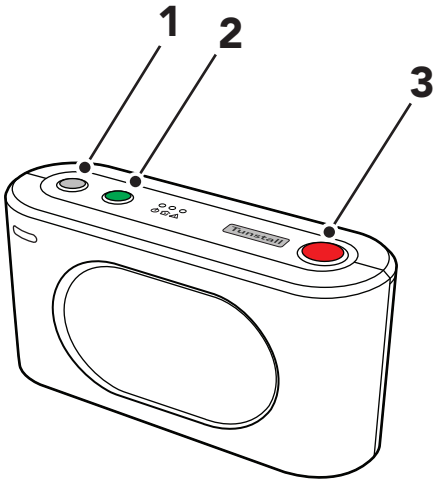


8.2. Disconnect from Careline

To disconnect the smoke alarm from Careline:

a) Make sure that Careline and the smoke alarm are switched on.

b) Press and hold the green button ② , then press and hold the grey ① and red button ③.



c) Release all buttons when you hear a rising sound signal. The device is now in programming mode, indicated by a rolling light between the LEDs.

NOTE
If no further buttons are pressed, the device will automatically exit programming mode. If this happens, you need to start over.

d) Press and hold the red button ③ until you hear the number of beeps that corresponds to the transmitter position that you want to disconnect, then release the button.

e) Press the grey button ①.

You hear an acknowledgement signal from the hub that confirms the disconnection.

f) Press the green button ② to exit programming mode.

8.3. Disconnect from Lifeline Smart Hub

You can disconnect a smoke alarm from Lifeline Smart Hub using DMP.

a) Log in to DMP.
b) Select a device to open the device information window.
c) Click **Settings** to open the device settings page.
d) Click **Sensor**.

   This displays the sensors currently registered to the unit.
e) Click the minus button at the end of the sensor's entry.

> **CAUTION**
> Only delete a smoke alarm after confirming that the *Sensor ID* in DMP matches that on the smoke alarm's label.

f) Click **Delete sensor** to confirm that you want to delete the sensor from the list.

> **CAUTION**
> Always check afterwards that the correct smoke alarm has been deleted.

8.4. Disconnect from Lifeline Vi/Vi+

Use PC Connect to disconnect from Lifeline Vi/Vi+.

9. Maintenance and cleaning

9.1. Manual alarm test

NOTE
Test the smoke alarm at regular intervals.

NOTE
The smoke alarm generates a very powerful and shrill tone which can be harmful to your ears. Please keep at least a distance of 50cm during the function test.

NOTE
Before you perform the test, make sure the smoke alarm is in "Normal mode".

NOTE
The smoke alarms need to be attached to the bracket before performing the test.

Press and hold the front button on any smoke alarm for at least 4 seconds.

A test signal tone and the message "Warning Fire Alarm" is generated for up to 2 minutes (depending on the number of interconnected devices), or until you terminate the test by pressing the front button. The red LED is also flashing.

The other smoke alarms will also sound and announce "Warning Fire Alarm in another room".

Also make sure that an alarm sounds from the hub and that the connected alarm receiver has received the alarm.

If no signal is generated, please let a few minutes pass, then retest.

9.2. Communication test

You can confirm the interconnection by performing a communication test. This test can only be triggered from the smoke alarm controller.

NOTE
Every 25 hours the communication between the interconnected smoke alarms is automatically tested.

NOTE
Before you perform the test, make sure the smoke alarm is in "Normal mode".

NOTE
The smoke alarms need to be attached to the bracket before performing the test.

Short press the front button (0.2 to 1 seconds).

The smoke alarm controller beeps and announces "Test", and the LED is flashing green.

If the test result is OK, the controller announces "Test completed successfully" and the LED on the other smoke alarms is flashing green.

If the test fails, the controller beeps and announces "No connection", and the LED on the other smoke alarms is flashing red.

NOTE
The test will take about 20 seconds.

After the test, each smoke alarm enters "Normal mode" automatically.

9.3. Battery

9.3.1. Battery life

The smoke alarm has a built-in, non-replaceable battery. The battery lifetime is 10 years. After 10 years, the smoke alarm should be replaced.

9.3.2. Low battery

The smoke alarm will generate a low battery warning about 30 days before the battery life has been reached, or if the battery voltage falls below a certain level. The smoke alarm indicates low battery state by beeping and announcing "Low battery", and the LED is flashing red. It also sends the information to the hub. The smoke alarm will continue to work fully but must be replaced as soon as possible.

When the smoke alarm is in the low battery state, you can stop the sound temporarily by pressing the front button. The temporary silence duration is 24 hours.

9.4. Cleaning

Dust and dirt can cause false alarms and therefore it is important to clean the smoke alarm regularly. Clean it at least twice a year.

Vacuum the smoke alarm on the outside along the opening to the optical chamber to remove dust and dirt. Use a plastic nozzle so ensure the electronics are not damaged.

10. Disposal and recycling

When the device is decommissioned, dispose of the device in accordance with current local regulations.

11. Technical data

Radio frequencies	Wireless linking to a hub using 869.2125 MHz European Social Alarm Frequency Wireless interconnection between smoke alarms using 868.150 MHz Frequency
Detection method	Optically (photoelectric)
Operating voltage	3V DC
Alarm indication	Optical and acoustic
Class of protection	EN 14604:2005
Average lifetime of the Lithium battery at 15-20ºC	More than 10 years
Operating temperature range	-10 to +55°C
Indicator	Red / green LED
Signal tone	>85 dB(A)/3m
Dimensions (Ø x H)	100 x 31,0mm
Mounting hole distance on base	60,0 – 66.7mm
Housing material/color	ABS/white
Wireless range	Typically 100m in open air
Smoke alarm lifetime	10 years
CE approval	CE marked
UKCA Approval	UKCA marked

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