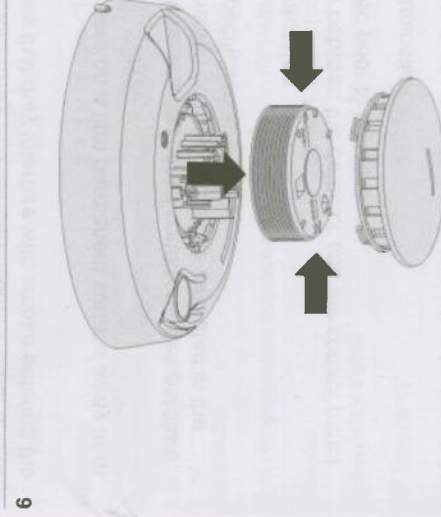
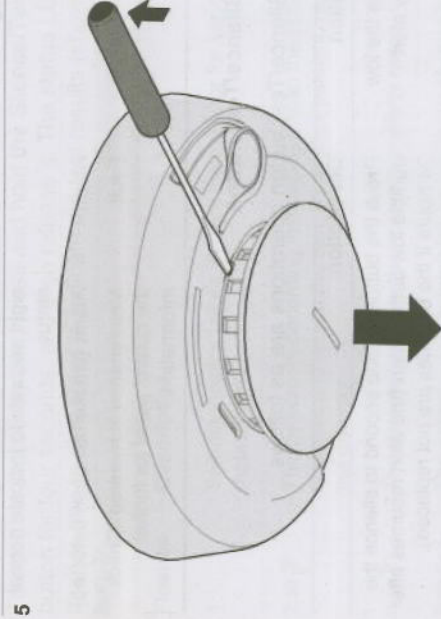
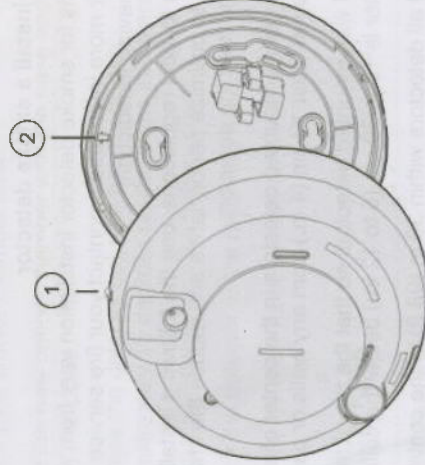
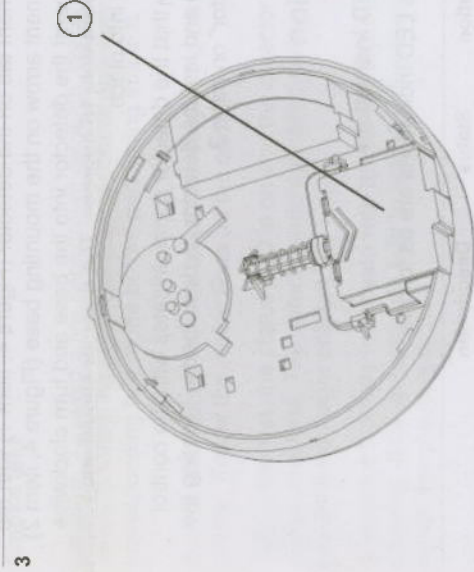
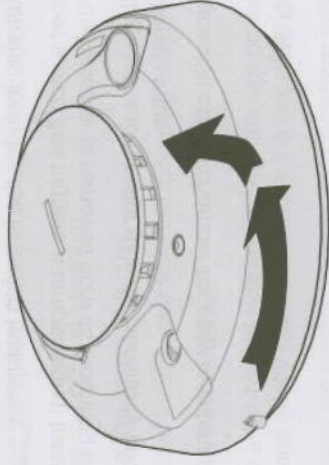
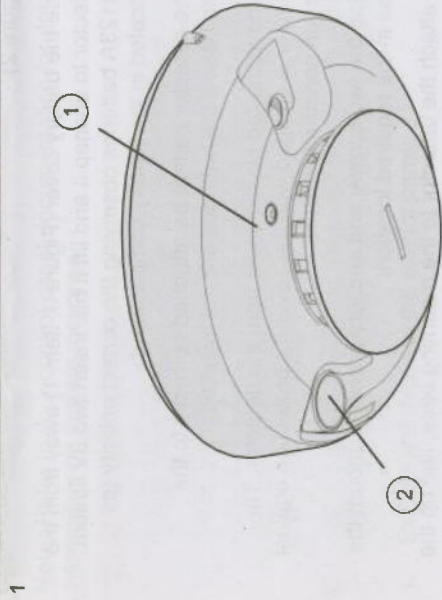




RF562NSI4 Wireless Smoke Detector Installation Sheet



Description

The RF562NS14 is a LearnMode wireless smoke detector designed for use in a security system with a compatible control panel. The detector is designed to comply with EN14604:2005/AC:2008.

The detector has a status LED (Figure 1, item 1), a Silence/Test button (Figure 1, item 2), and a built-in sounder for alarm indication.

The status LED flashes every eight seconds to indicate normal status (no alarm). When smoke is detected, the status LED changes from flashing to on, the built-in sounder is activated, and an alarm signal is sent to the control panel.

The detector sends a supervisory signal to the control panel every 64 minutes to confirm its status.

The detector also includes the following features:

- A tamper switch that triggers a tamper signal transmission when the detector is removed from its mounting base
- Self-diagnostics to monitor detector sensitivity and operational status
- A replaceable optical chamber for easy maintenance

Installation

Caution: Refer to your control panel documentation for detailed information on the corresponding communications, configuration, and test requirements.

Where to install a smoke detector

Regulations for smoke detector installation vary from region to region. For more information, contact your fire service or local authority having jurisdiction.

In addition to local regulations, use the following installation guidelines to optimize performance and reduce the chance of false alarms from the detector:

- Install ceiling-mounted detectors in the center of a room or hallway at least 10 cm (4 in.) from any walls or partitions.
- Install wall-mounted detectors so that the top of the detector is 15 to 30 cm (6 to 12 in.) below the ceiling.
- Install all detectors within 30 m (98 ft) of the control panel
- Install detectors away from air conditioners, fans, and any other devices that may interfere with smoke entering the detector.
- Install detectors on a firm permanent surface away from large metallic objects.
- Ensure that the environmental conditions (temperature, relative humidity) comply with those indicated in the technical specifications.

Verify communication

Communication between the detector and the control panel should be verified prior to installation.

To verify communication:

1. Put the control panel into the corresponding test mode.
2. From the proposed installation location, press and hold the detector Silence/Test button for four seconds, and then

release it. After a short delay the status LED is activated (on) and the detector transmits a test alarm signal to the control panel.

3. Check that the signal is received by the control panel and that the signal strength is adequate. If not, relocate the detector and perform the test again.
4. When adequate communication is confirmed, exit the test mode.

Installation

To install the detector:

1. Remove the detector from the mounting base by turning the detector counterclockwise about 15 degrees (Figure 2).
2. Slide the battery cover (Figure 3, item 1) away from the detector to unsnap it and lift it off. Insert two 3V lithium CR123A batteries observing the correct polarity (as indicated in the battery compartment).

Note: the detector cannot be attached correctly to the mounting base if the batteries are not installed.

3. Remove the red plastic cover from the detector. The detector is shipped with the cover for protection against dust on construction sites.
4. Using the two screws and anchors provided, mount the base in the required location.
5. To attach the detector to the mounting base, line up the alignment tab on the detector (Figure 4, item 1) with the alignment arrow on the mounting base (Figure 4, item 2) and insert the detector into the base and turn clockwise approximately 15 degrees. The detector should snap firmly into place.
6. Verify that the detector communicates with the control panel and test the detector as described in "Testing the detector" on page 3.

Operation

Status LED indications

The status LED indications are as follows.

LED indication	Status	Description
Flashing	Normal	The status LED flashes every eight seconds to indicate normal status
On	Alarm	Alarm (smoke has been detected)
Off	Fault	Maintenance is required. Check the control panel for further information.

The Silence/Test button

The Silence/Test button operations are as follows.

Operation	Description
Silence the low battery alert	Press the button for one second to silence the audible low battery alert (the alert resumes after 24 hours if the batteries are not replaced).
Sensitivity and Alarm test	Press the button for four seconds to perform a sensitivity test and to send a test alarm signal to the control panel

Operation	Description
Remote monitoring station alarm test	Press the button for fifteen seconds to send a fire alarm signal to the remote monitoring station.
	Important: To avoid a fire department dispatch, contact the remote monitoring station or put the control panel into the corresponding test mode before performing this test.

Testing the detector

Siren and signal integrity test

Test each detector to verify that siren and signal integrity responses are adequate.

Note: Refer to your control panel documentation for detailed information on system response.

To test the siren and signal integrity:

1. Put the control panel into the corresponding test mode.
2. Press and hold the detector Silence/Test button for four seconds, and then release it. After a short delay the status LED is activated (on) and the detector transmits a test signal to the control panel.
3. Listen for the appropriate response from system sirens to determine signal integrity from the detector to the panel.
4. Exit the test mode at the control panel.

Smoke test

Caution: To avoid a fire department dispatch, contact the remote monitoring station or put the control panel into the corresponding test mode before performing this test.

Smoke detectors should be tested annually using canned smoke. Follow the instructions on the can.

During the test, the status LED is on and the detector sounds a continuous tone. The detector automatically resets when smoke is no longer present.

A detector that fails to activate with the smoke test may require cleaning. If the detector still fails to activate after cleaning, return the unit for service.

Sensitivity test

To start the sensitivity test, press and hold the Silence/Test button for four seconds, and then release it. The status LED flashes one to nine times to indicate the test results (shown below).

Flashes	Description
1	Self-diagnostics failure. Return the detector for service or replacement.
2 to 3	The detector is becoming insensitive. Clean the optical chamber and repeat the test. If the error persists, replace the detector.
4 to 7	The detector is within the normal sensitivity range
8 to 9	The detector is becoming too sensitive. Verify that the optical chamber is installed correctly. Clean the optical chamber and repeat the test.

Maintenance

Replacing the batteries

The detector is powered by two 3 V lithium CR123A batteries.

When batteries are low, the detector status LED is off and an audible alert sounds every 45 seconds until the batteries are exhausted. Replace both batteries immediately.

Note: The low battery alert can be silenced for 24 hours by pressing the Silence/Test button.

Always test the detector after replacing the batteries.

Cleaning the detector

Clean the detector with a dry or damp cloth to keep it free from dust and dirt. Clean the detector interior at least once a year and replace the optical chamber as described below.

Replacing the optical chamber

To replace the optical chamber:

1. Remove the detector from the mounting base.
2. Remove the batteries.
3. Slide a flat-bladed screwdriver into the slot on the detector cap and gently push down to pry the cap off (Figure 5).
4. Squeeze the existing optical chamber where indicated and pull it up and away from the detector and discard (Figure 6).
5. Blow out or use a soft-bristled brush to remove dust and dirt from the smoke chamber base.
6. Align the new optical chamber with the base and snap down into place.
7. Replace the detector cap and turn clockwise approximately 15 degrees until it snaps into place.
8. Install the batteries and the battery cover.
9. Attach the detector to the mounting base.
10. Test the detector as described earlier in this document.

Specifications

Current consumption (nominal)	
Standby	35 μ A
Alarm	70 mA
Test	2 mA
Batteries	2 x 3 V lithium CR123A
Estimated battery life	4 to 6 years
Low battery indication	Audible alert every 45 seconds
Sensitivity	0.14 \pm 0.04 dB/m
Drift compensation adjustment	1.64%/m (0.5%/ft.) max.
Sounder	85 dBA at 3 m (continuous tone)
Supervisory signal	Every 64 minutes
RF frequency	433 MHz
RFI immunity	Complies to EN14604:2005/AC:2008

Description

The RF562NSI4 is a LearnMode wireless smoke detector designed for use in a security system with a compatible control panel. The detector is designed to comply with EN14604:2005/AC:2008.

The detector has a status LED (Figure 1, item 1), a Silence/Test button (Figure 1, item 2), and a built-in sounder for alarm indication.

The status LED flashes every eight seconds to indicate normal status (no alarm). When smoke is detected, the status LED changes from flashing to on, the built-in sounder is activated, and an alarm signal is sent to the control panel.

The detector sends a supervisory signal to the control panel every 64 minutes to confirm its status.

The detector also includes the following features:

- A tamper switch that triggers a tamper signal transmission when the detector is removed from its mounting base
- Self-diagnostics to monitor detector sensitivity and operational status
- A replaceable optical chamber for easy maintenance

Installation

Caution: Refer to your control panel documentation for detailed information on the corresponding communications, configuration, and test requirements.

Where to install a smoke detector

Regulations for smoke detector installation vary from region to region. For more information, contact your fire service or local authority having jurisdiction.

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- Install detectors away from air conditioners, fans, and any other devices that may interfere with smoke entering the detector.
- Install detectors on a firm permanent surface away from large metallic objects.
- Ensure that the environmental conditions (temperature, relative humidity) comply with those indicated in the technical specifications.

Verify communication

Communication between the detector and the control panel should be verified prior to installation.

To verify communication:

1. Put the control panel into the corresponding test mode.
2. From the proposed installation location, press and hold the detector Silence/Test button for four seconds, and then

release it. After a short delay the status LED is activated (on) and the detector transmits a test alarm signal to the control panel.

3. Check that the signal is received by the control panel and that the signal strength is adequate. If not, relocate the detector and perform the test again.
4. When adequate communication is confirmed, exit the test mode.

Installation

To install the detector:

1. Remove the detector from the mounting base by turning the detector counterclockwise about 15 degrees (Figure 2).
2. Slide the battery cover (Figure 3, item 1) away from the detector to unsnap it and lift it off. Insert two 3V lithium CR123A batteries observing the correct polarity (as indicated in the battery compartment).

Note: the detector cannot be attached correctly to the mounting base if the batteries are not installed.

3. Remove the red plastic cover from the detector. The detector is shipped with the cover for protection against dust on construction sites.
4. Using the two screws and anchors provided, mount the base in the required location.
5. To attach the detector to the mounting base, line up the alignment tab on the detector (Figure 4, item 1) with the alignment arrow on the mounting base (Figure 4, item 2) and insert the detector into the base and turn clockwise approximately 15 degrees. The detector should snap firmly into place.
6. Verify that the detector communicates with the control panel and test the detector as described in "Testing the detector" on page 3.

Operation

Status LED indications

The status LED indications are as follows.

LED indication	Status	Description
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