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nest A0028 Detect Security System Sensor

nest A0028 Detect Security System Sensor User Guide

Contents

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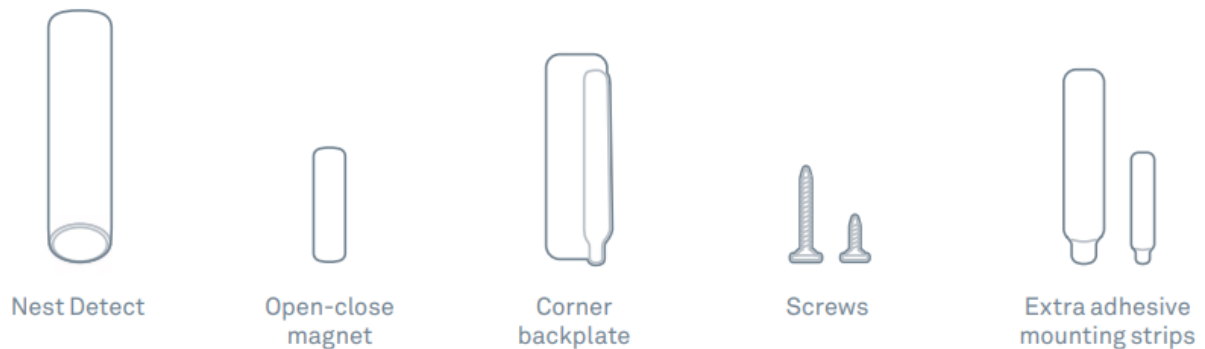
nest A0028 Detect Security System Sensor

Want help?
Go to **nest.com/support** for installation videos and troubleshooting. You can also find a Nest Pro to install your Nest Detect.

In the box

Nest Detect   Open-close magnet   Corner backplate   Screws   Extra adhesive mounting strips

SYSTEM REQUIREMENTS
To use Nest Detect, first you'll need to set up Nest Guard and add it to your Nest Account. You'll need a compatible iOS or Android phone or tablet with Bluetooth 4.0, and a Wi-Fi 802.11 a/b/g/n (2.4GHz or 5GHz) network connection. Go to **nest.com/requirements** for more information. Nest Detect must be placed within 50 feet (15 m) of Nest Guard.
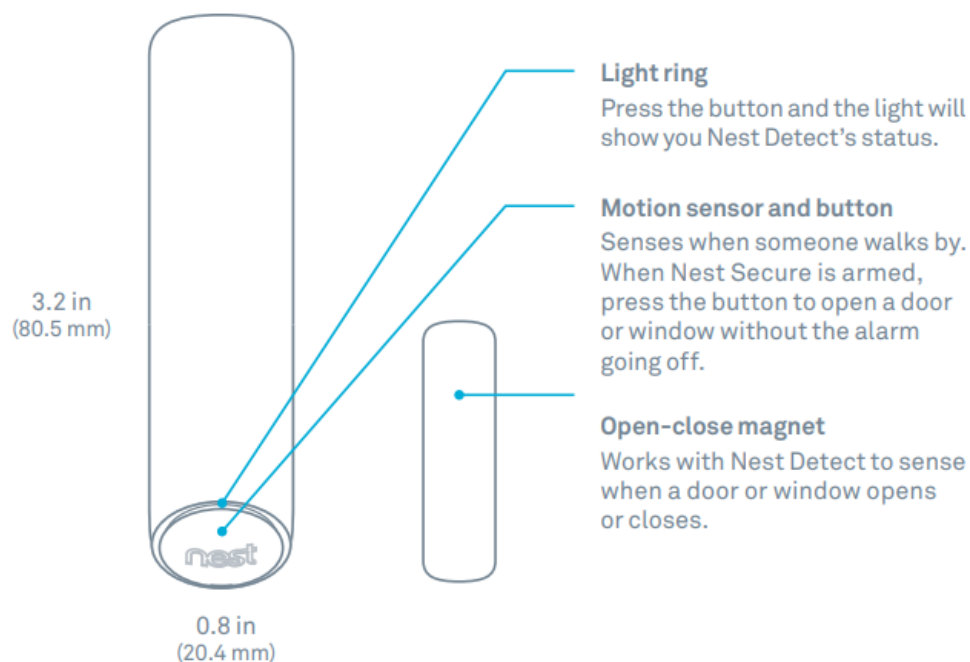
Set up Nest Detect with the Nest app
IMPORTANT: Be sure your Nest Guard is already set up and connected to the internet before you set up Detect.
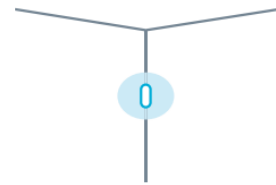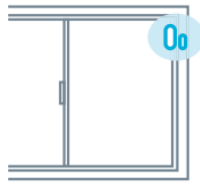
1 Open the Nest App.

2 Tap the Add button.
Don't see a ⊕?
Tap the ⚙.

3 Follow the app instructions.
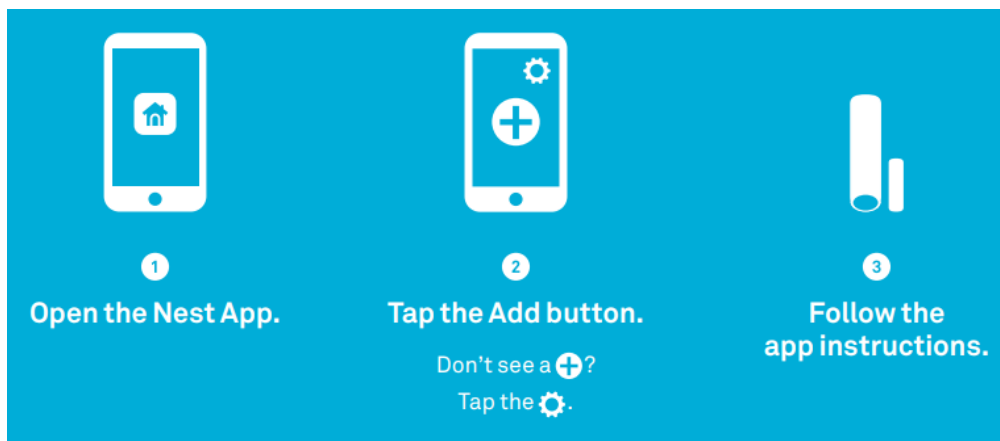
Meet Nest Detect

Nest Detect can tell you what's happening in your home. Its sensors detect when doors and windows open and close, or when someone walks by. When it notices something, it will let Nest Guard know to sound an alarm. You can also get an alert sent to your phone, so you'll know what's happening when you're away.

3.2 in (80.5 mm)

0.8 in (20.4 mm)

Light ring
Press the button and the light will show you Nest Detect's status.

Motion sensor and button
Senses when someone walks by. When Nest Secure is armed, press the button to open a door or window without the alarm going off.

Open-close magnet
Works with Nest Detect to sense when a door or window opens or closes.

How Nest Detect works

Nest Detect will sense different things depending on where you place it.
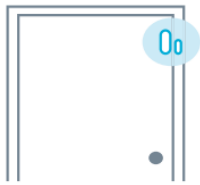
	On a door	On a window	On a wall
Detects motion in a room or hallway	✓		✓
Detects open-close (Requires open-close magnet)	✓	✓	

On a door
Nest Detect can sense when a door opens or closes, or when someone walks nearby.

On a window
Nest Detect can sense when a window opens or closes.

On a wall
Nest Detect can sense when someone walks nearby.

Detects motion in a room or hallway
Detects open-close (Requires open-close magnet) Where you can place Nest Detect Mounting height Nest Detect must be mounted 5 feet to 6 feet 4 inches (1.5 to 2 m) above the floor. If you mount it higher or lower, the detection range decreases, and you may also experience false alarms. Standard detection area Nest Detect can sense motion from people walking up to 15 feet (4.5 m) away.

Dog Pass
If you have a dog under 40 pounds (18 kg), turn on Reduced Motion Sensitivity in the Nest app settings to help avoid false alarms. There are different installation requirements and motion detection ranges when using Reduced Motion Sensitivity.

15' (4.5 m)

Side view

6'4"

5'

Nest Detect

14' (4.3 m)

Top view
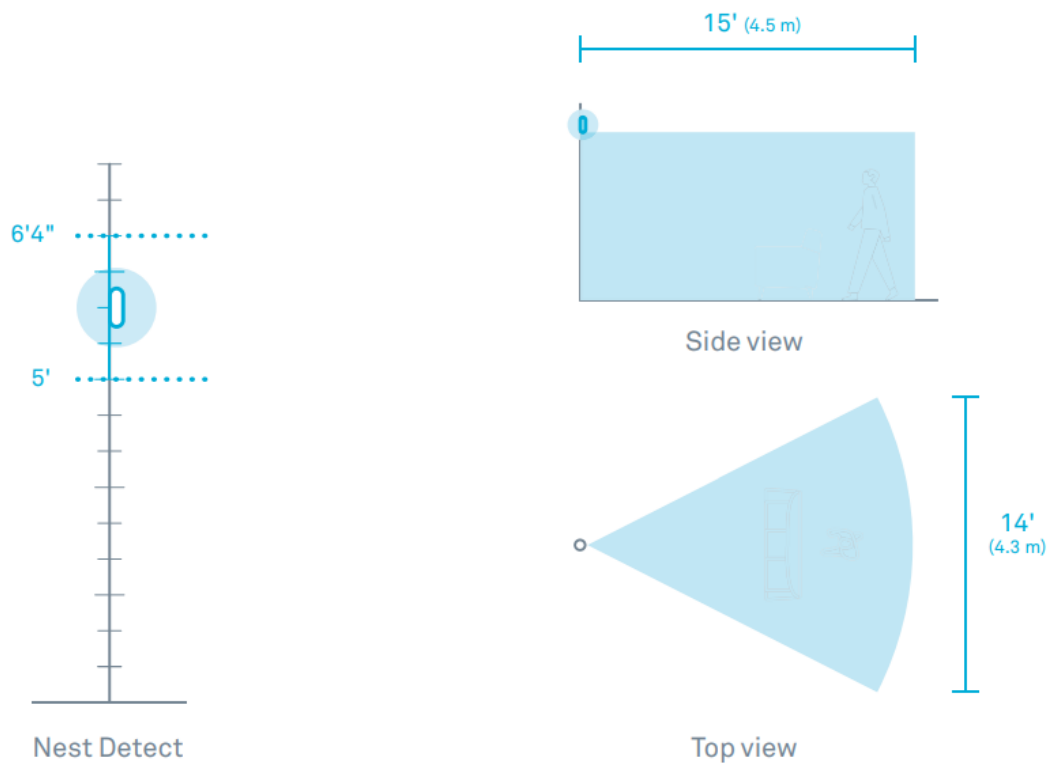
Mounting height
Nest Detect should be mounted exactly 6 feet 4 inches (1.9 m) above the floor.

Reduced Motion Sensitivity detection area
Nest Detect can sense motion from people walking up to 10 feet (3 m) away.

Installation tips

Use the Nest app
During setup, the Nest app will show you where to put Nest Detect and its open close magnet so they work properly. Here are more things to consider before you install Nest Detect on a wall, window or door.

Mounting with adhesive strips
Nest Detect and the open-close magnet should be installed on smooth, flat surfaces only.

1. Make sure the surface is clean and dry.
2. Peel the protective cover off the adhesive strip.
3. Press evenly with your palm and hold in place for at least 30 seconds. The adhesive strips shouldn't be used on surfaces painted with low-VOC or zero-VOC paint or any surfaces not listed on page 15.

IMPORTANT
Nest Detect's adhesive strips are very strong and can't be easily repositioned. Before you press and hold it for 30 seconds, be sure Nest Detect is straight and in the right spot. Mounting with screws Install Nest Detect with screws if your walls, windows or doors have rough surfaces, are contoured or dirty, are prone to heat or high humidity, or are painted with low-VOC or zero-VOC paint. For best results use a Phillips #2 screwdriver.

1. Remove Nest Detect's mounting backplate and you'll see the screw hole.
2. Remove all the adhesive material from the backplate.
3. Screw the backplate onto the surface. Drill a 3/32″ pilot hole first if you're attaching it to wood or other hard

material.

4. Snap the Nest Detect onto its backplate.

To install the open-close magnet

1. Snap off the backplate and you'll see the screw hole.
2. Remove all the adhesive material from the backplate.
3. Screw the backplate onto the surface.
4. Drill a 1/16″ pilot hole first if you're attaching it to wood or other hard material.
5. Snap the open-close magnet onto its backplate.

Installing Nest Detect on a door or window

- Nest Detect should only be installed indoors.
- Install Nest Detect on the upper corner of a door or window with the Nest logo right side up.
- Nest Detect should be attached horizontally on vertical double-hung windows.
- Make sure you choose a spot for Nest Detect where the magnet can also fit. They need to be installed close together to sense when doors and windows open or close.

IMPORTANT
Nest Detect should only be installed indoors. Orienting Nest Detect for motion detection When installing Nest Detect on a door or wall, the Nest logo must be upright to detect motion.

Installing the open-close magnet
Install the magnet on the door or window frame inside the room. You'll know it's in the right spot when the Nest Detect light ring turns green.• The magnet should be aligned with the bottom of Nest Detect and placed within 1.5 inches (3.8 cm) of Detect when the door or window is closed, as shown in the image to the below.

Installing Nest Detect on a wall

- Choose a flat spot on the wall or in a corner of a room. For more information on mounting heights refer to page 8.
- Make sure Nest Detect is pointed toward the area you want to keep track of. For more information on motion detection range, refer to page 8.
- To install Nest Detect in a corner, take off the flat backplate and use the included corner backplate for installation.

Features

Quiet Open
When the security level is set to Home and Guarding, you can use Quiet Open to open a door or window without the alarm going off. Press the button on the Nest Detect that you want to use. The light ring will turn green, and you'll have 10 seconds to open it. Your Detect will automatically re-arm when you close the door or window. You can enable or disable Quiet Open in the Nest app's Settings menu. Select Security then Security Levels.

Pathlight
When you walk by Nest Detect in the dark, Pathlight turns on to help light your way. Using Pathlight may decrease Nest Detect's battery life, so you can change the brightness or turn it off with the Nest app. Pathlight is off by

default. You'll need to turn it on with the Nest app in Nest Detect's Settings menu.

Dog Pass
If you have a dog under 40 pounds (18 kg), you can turn on Reduced Motion Sensitivity with the Nest app to help prevent false alarms caused by your dog. For more information, see page 9.
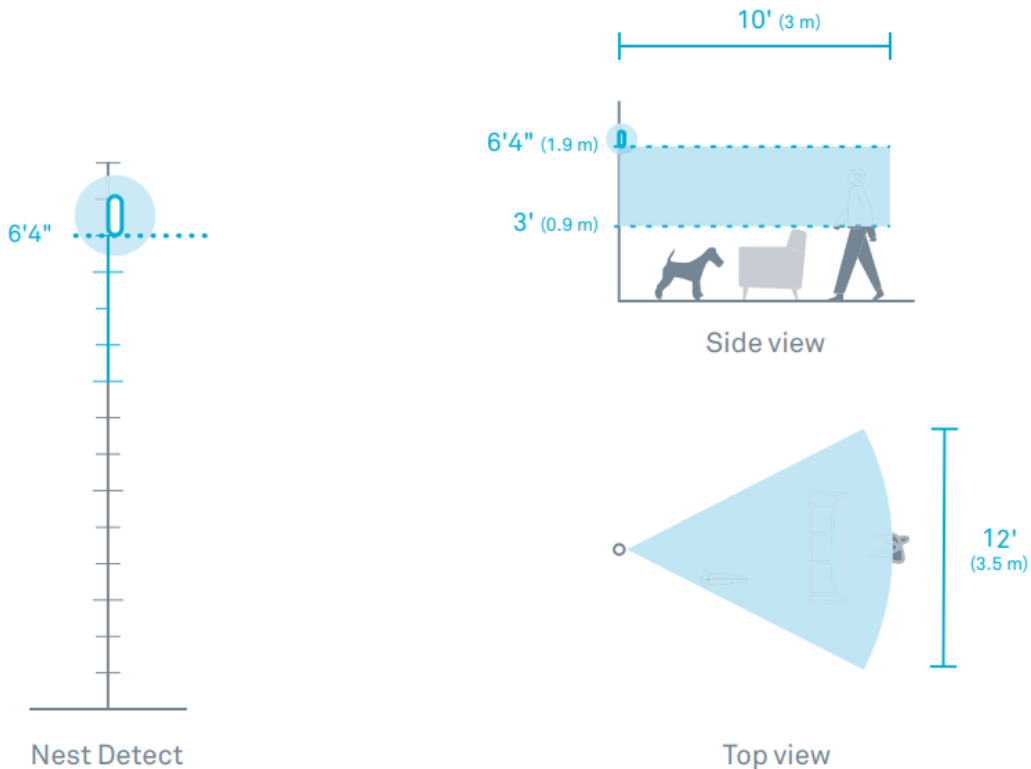
Tamper detection
If someone tampers with Nest Detect and removes it from the backplate, the Nest app will send you an alert to let you know.

Operation

How to test your Nest Detect
You should test your Nest Detect at least once each year. To check to make sure open/close detection or motion detection is working on your Nest Detect, follow these instructions.

1. Tap the gear icon in the upper right corner of the Nest app home screen.

2. Select the Nest Detect you want to test from the list.

3. Select "Check setup" and follow the app instructions. It will walk you through opening and closing your door or window, or testing motion detection in the room.

Restart
If your Nest Detect loses its connection to the Nest app, or the light ring glows yellow when you press the button, it might help to restart it. Just press and hold the button for 10 seconds.

Reset to factory settings
If you remove Nest Detect from your Nest Account, you must reset it to factory settings before it can be used again. To reset:

1. Set Nest Secure to Off, or the alarm will sound when you reset Detect.

2. Press and hold down Nest Detect's button until the light ring pulses yellow (around 15 seconds).

3. Release the button when the light ring pulses yellow.

Check for updates
Nest Detect will automatically update its software, but you can manually check for updates if you want.

1. Disarm Nest Secure.

2. Press Detect's button and release it.

3. Press the button again and hold it down.

4. Release it when the light blinks blue.

5. Detect will begin automatically updating its software and turn off the light when finished.

How to check Detect's status
Just press the button and the light ring will tell you if Nest Detect is working and connected to Nest Guard.

What you see		What it means
(1x)	BLUE pulse	Nest Detect is working right.
(1x)	GREEN pulse	If enabled, Quiet Open can be used on this door or window.
(5x)	YELLOW pulses	There's a problem with Nest Detect. Check the Nest app for more information. It could mean a few things: • The battery has less than 30 days left. • Nest Detect needs to be recalibrated. • There's an issue with Detect's hardware.
(○)	BLUE pulses	Nest Detect hasn't been set up and added to your Nest Account.
(○)	RED blinking	Unpaired, and critical battery

Safety and useful information

Special considerations

- In some installations the magnet may need to travel up to 1.97″ (50 mm) for Nest Detect to detect that a door or window is open.
- Don't install Nest Detect outdoors.
- Don't install Nest Detect in a garage.
- Don't install Nest Detect on glass.

1.5 inches (3.8 cm) max
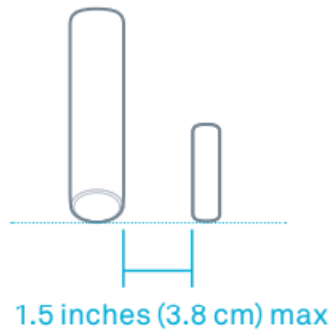
- Nest Detect can't detect motion through glass, like if someone's moving outside a window.
- Don't install where Nest Detect could get wet, like swing-out windows that could be rained on.
- Don't install Nest Detect or the open-close magnet where pets or young children can reach them.
- Don't expose the adhesive mounting strips to oils, chemicals, refrigerants, soaps, X-rays or sunlight.
- Don't paint any part of Nest Guard, Detect or Tag.
- Don't install Nest Detect near magnets other than the open-close magnet. They'll interfere with Nest Detect's open-close sensors.
- Don't install Nest Detect within 3 feet (1 m) of a heat source like an electric heater, heat vent or fireplace or another source that may produce turbulent air.
- Don't install Nest Detect behind large appliances or furniture that may obstruct its motion sensors.

Maintenance

- Nest Detect should be cleaned once every month. If the motion sensor gets dirty, the detection range could decrease.
- To clean, wipe with a damp cloth. You can use isopropyl alcohol if it gets really dirty.
- Make sure Nest Detect senses motion after cleaning. Follow the testing instructions in the Nest app.

Temperature considerations
Nest Detect is meant to be used indoors in temperatures of 0°C (32°F) to 40°C (104°F) up to 93% humidity

Battery replacement
The Nest app will notify you when a Detect's battery gets low. Remove the battery and replace it with another Energizer CR123 or Panasonic CR123A 3V lithium battery.

To open the battery compartment

- If Nest Detect is mounted to a surface, grip the topand pull it firmly toward you.
- If Nest Detect is not mounted to a surface, use a flathead screwdriver to pry off the backplate.

Troubleshooting offline issues
If one or more Detects are listed as offline in the Nest app after installation, they may be too far from Guard to connect. You can install a Nest Connect (sold separately) to bridge the gap, or try moving your Detects and Guard closer together.

False alarms
The following may cause unintended alarms:

- Pets that walk, climb or fly above 3 feet (1 m)

- Pets heavier than 40 pounds (18 kg)
- Heat sources like electric heaters, heat vents and fireplaces
- Cold sources like drafty windows, air conditioners and AC vents
- Curtains near windows that may move while Nest Guard is armed
- Direct sun exposure: the front of Nest Guard and Nest Detect should not be placed in direct sunlight
- Party balloons left unattended: they may drift into the field of view of your sensors
- Insects that may come very close to the sensor
- Vibration or movement caused by pets bumping
- Nest Guard when it's set to Away and Guarding
- Wireless access points within 6 feet (2 m) of Nest Detect.

Wireless communications

- Nest Guard and Nest Detects are engineered to communicate with each other if they're within 50 ft of each other in a home.
- Some features of a home may reduce the effective range, including the number of floors, number and size of rooms, furniture, large metallic appliances, construction materials, and other features like suspended ceilings, ductwork and metal studs.
- Nest Guard's and Nest Detect's specified range is for comparative purposes only and may be reduced when installed in a home.
- Wireless transmissions between buildings will not work and the alarms will not communicate properly.
- Metal objects and metallic wallpaper may interfere with signals from wireless alarms. Test your Nest products first with metal doors opened and closed.
- Nest Guard and Nest Detect have been specifically designed and tested to comply with the standards for which they are Listed. While Nest's wireless network may route signals through other Nest or other
- Thread-compatible products* to optimize network reliability, you need to ensure every
- Nest Detect can communicate with Nest Guard directly

To make sure Nest Detect can directly communicate to Nest Guard, completely power off your other Nest or other Thread compatible products before installing or relocating Nest Detect. Nest Detect will flash yellow 5 times during installation if it cannot directly communicate to Nest Guard. Nest Detect's light ring will pulse green when it's connected to Nest Guard. To learn more about powering off your Nest or other Thread-compatible products, please see the user guides included with your devices, or support.nest.com, for more information. *Search for A0024 (Nest Guard) and A0028 (Nest Detect) in the UL Certification Directory (www.ul.com/database) to see the list of products evaluated by UL to route signals on the same network as Nest Guard and Nest Detect.

WARNING
This product contains (a) small magnet(s). Swallowed magnets can cause choking. They can also stick together across intestines causing serious infections and death. Seek immediate medical attention if magnet(s) are swallowed or inhaled. Keep out of reach of children.

Product Information
Model: A0028
FCC ID: ZQAH11
Certification: UL 639, UL 634

Additional certification details
Nest Guard and Nest Detect were designed to meet rigorous UL security standards, and were tested for

compliance by Underwriters Laboratories for residential use only. Nest Guard was evaluated by UL for use as a burglar alarm control panel and PIR intrusion detector. Nest Detect was evaluated by UL as a magnetic contact switch and a PIR intrusion detector. To meet UL specifications, please enable Limited.

Settings within the app and install Nest Guard and Nest Detect as the primary means of intrusion detection within the protected area of the household. Enabling Limited Settings limits No Rush arm time to 120 seconds maximum and disarm time to 45 seconds
maximum, and allows you to arm with a passcode. Nest Guard will also provide an audible warning tone once per minute when there is an issue that needs attention.

For UL certified installations the adhesive is suitable for use on Galvanized steel, Enameled steel, Nylon – Polyamide, Polycarbonate, Glass Epoxy, Phenolic – Phenol Formaldehyde, Polyphenylene ether/ Polystyrene blend, Polybutylene terephthalate, Epoxy paint, Polyester paint, Coated epoxy paint (Coating is 3M Adhesive Promoter 111), Acrylic urethane paint, Epoxy/Polyester paint. Nest Detect in Reduced Motion Sensitivity mode has been evaluated by UL only for motion detection of people. The UL certification of Nest Guard and Nest Detect does not include an evaluation of the Nest app, software updates, Nest Connect's use as a range extender, and Wi-Fi or cellular communication to the Nest Service or to a professional monitoring center.

Federal Communications Commission (FCC) compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This
equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. Change or modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

RF Exposure Information
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

Nest Labs, Inc.
Limited Warranty
Nest Detect

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will be covered by the terms of this Limited Warranty for the longer of (a) ninety (90) days from the date of delivery of the repaired Product or replacement Product, or (b) the remaining Warranty Period. This Limited Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

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Documents / Resources

nest A0028 Detect Security System Sensor [pdf] User Guide
A0028, A0028 Detect Security System Sensor, Detect Security System Sensor, Security System Sensor, Sensor

References

- **How to set up Nest Secure - Google Nest Help**
- **Google Nest Help**
- **Manual-Hub.com - Free PDF manuals!**
- **User Manual**