SecureX MotionGuard PR123

Installation Manual

Model: PR123
Version: v1.0
Date: 2026-10-21



1. Product overview

SecureX MotionGuard PR123 is a wireless PIR motion detector for outdoor use. It detects changes in infrared heat radiation and sends an alarm signal to a compatible alarm control panel at 433.92 MHz.

The detector uses two AA batteries and features a weather shield, tamper protection and pet immunity for animals up to 25 kg when correctly installed. It requires an alarm control panel and does not operate as a standalone alarm.

Compatibility: The alarm control panel must support the detector's eV1527 protocol. Matching radio frequencies alone do not guarantee compatibility.

2. Technical specifications

Power supply: 3 V, 2 × 1.5 V AA batteries.

Wireless communication: 433.92 MHz, eV1527.

Radio range: up to 150 m in an open environment, according to the product data.

Detection angle: 110°.

Detection distance: the original guide states 6–9 m; the product data specifies up to 12 m. Always verify actual coverage with a walk test.

Pet immunity: up to 25 kg, depending on installation and conditions.

Recommended mounting height: 2.2–2.7 m, according to the text in the original guide.

Operating temperature: −20 °C to +50 °C.

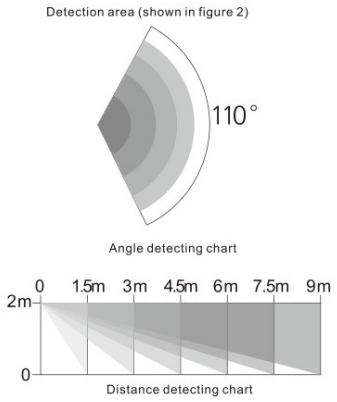
Current consumption according to the original guide: up to 9 µA in standby, 15 mA during operation.

Dimensions: detector 120 × 62 × 46 mm; weather shield 135 × 35 × 70 mm.

Operating environment: outdoors and indoors. Fit the weather shield for outdoor installations.

3. PIR technology and detection

PIR technology detects differences between body heat and the background temperature. Walk across the detection field when testing. The detector cannot detect movement through glass.



Detection angle and coverage diagrams from the original guide.

4. Choosing a location

Choose a solid wall or another stable mounting surface. Install at a height of 2.2–2.7 metres and aim the detector at the area to be protected. Mounting too high can create a blind spot; mounting too low can reduce the detection distance.

Avoid direct sunlight on the lens, large metal surfaces, power lines and strong heat or cold sources. Do not install on a surface that moves in the wind.

Pets: Immunity for animals up to 25 kg depends on correct mounting height and angle. Prevent animals from approaching the lens closely or climbing into the detection field. Test with the animals normally present at the site.

5. Mounting and batteries

1) Open the housing as shown on the product and in the original guide. Loosen the retaining screw if necessary. Do not touch the PIR element on the circuit board.

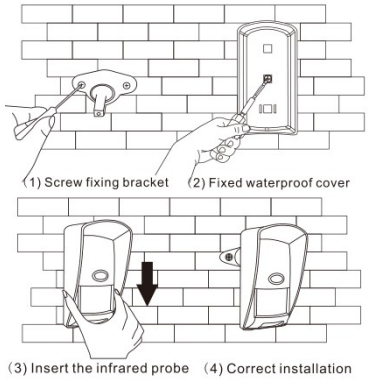
2) Insert two 1.5 V AA batteries, observing the positive and negative markings. Do not mix old and new batteries.

3) Pair and test the detector near the alarm control panel before final mounting; see section 6.

4) Secure the mounting bracket using screws and wall plugs suitable for the surface. Attach the weather shield as shown in the mounting illustration.

5) Align the detector with the mounting points inside the weather shield and slide it down until secure. Check that the housing is properly closed and the mounting is secure.

6) Adjust the direction and carry out a walk test at the final location before putting the installation into service.



Secure the bracket and weather shield, then slide the detector down into position.

6. Pairing with an alarm control panel

1) Insert the batteries and check that the detector responds with its LED indicator.

2) Open the alarm control panel's menu for adding a wireless detector. Follow the panel's instructions to enter learning mode.

3) Trigger the detector by moving in front of it or passing your hand in front of the detection window. The LED flashes or lights up when a signal is transmitted.

4) Confirm that the device has been registered in the alarm control panel. Give it a clear name, such as Entrance or Rear garden.

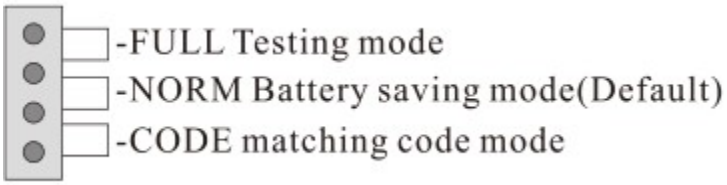
5) Exit learning mode and check that a new activation is registered in the correct zone. App notifications, where available, depend on the control panel and system settings.

Alternative using CODE: The original guide describes a dedicated coding mode. With CODE selected, hold the tamper button for approximately 3 seconds to transmit the identification code. Afterwards, restore the required operating mode.

7. Operating modes and pulse count

7.1 Operating mode jumper

FULL: Test mode. A new alarm activation is possible after an interval of more than 5 seconds.
NORM: Battery-saving mode and the default setting. The interval between alarm activations is approximately 3 minutes.
CODE: Pairing code mode, as described in section 6.



7.2 Pulse count

Select 1, 2 or 3 pulses using the pulse jumper. The default is 1 pulse. This setting determines how many detection pulses are required to trigger an alarm. Remove the batteries before changing settings and always test the result.

After testing: Change FULL or CODE back to NORM for normal battery-saving operation. In NORM, failure to repeat an alarm immediately does not necessarily indicate a fault.

8. Walk test and final checks

1) Select FULL for repeated walk tests. Inform anyone affected and use the alarm control panel's test function if alarms would otherwise be forwarded.

2) Walk across the detection area at a normal pace, including near its outer limits. Test from both directions and wait more than 5 seconds between activations.

3) Check the LED and confirm that the correct zone is registered in the alarm control panel. Adjust the height or angle if coverage is insufficient. Repeat the test after every adjustment.

4) Test the radio connection at the mounting location and pet immunity where relevant. Return to NORM and check operation again after approximately 3 minutes.

9. Troubleshooting

No activation: Check battery polarity and condition, pairing and the selected zone. In NORM, wait approximately 3 minutes before trying again.

Detector not shown in the control panel: Test close to the panel and check support for 433.92 MHz/eV1527. Trigger the detector while the panel is in learning mode.

False alarms: Check the direction, sunlight, heat and cold sources, mounting stability and animals near the lens. Check the pulse count setting and repeat the walk test.

Short radio range: Try another location and avoid metal or substantial obstacles between the detector and control panel. Check the batteries.

Tamper alarm: Check that the housing is properly closed and the tamper switch is engaged as intended. Reset the alarm according to the control panel's instructions.

10. Maintenance and support

Regularly check that the weather shield and mounting are secure. Gently wipe the lens with a soft, slightly damp cloth. Do not spray with water or allow moisture to enter the housing.

Replace both batteries together when the battery level is low or performance deteriorates. Repeat the walk test after replacing batteries, moving the detector or changing settings.

Website: www.stonehousesmart.se / www.stonehousesmart.com
Email: stonehouse@stonehouse.se

Technical sources: the original PR123 guide and accompanying product images. Layout follows the approved SecureX template.