Using PIR Sensor Exit Mode in Paxton10

Overview

Some mechanically egressed doors, such as those fitted with crash bars or push-to-exit handles, allow people to leave freely without presenting a credential or pushing an exit button. On these doors, opening the door from the inside can cause unintended door forced alarms or unnecessary valid exit events when a PIR sensor is connected.

PIR sensor exit mode allows installers to connect a PIR sensor (or similar device) to the controller's exit request input. When enabled, Paxton10 interprets motion at the door as a valid internal exit, preventing false alarms while still maintaining accurate door-left-open behaviour and true door forced detection.

When to Use PIR Sensor Exit Mode

Enable this mode on free-egress doors where:

- People can exit without presenting a credential or pressing an exit button
- A PIR, pressure mat, or handle-micro-switch is used to detect a person approaching the door
- You want to avoid false door forced alarms when the internal mechanical egress is used

How PIR Sensor Exit Mode Works

When a PIR sensor (or similar device) is connected to the exit request input on a Paxton10 controller and PIR sensor exit mode has been enabled on the controller:

1. <u>Sensor detects motion</u>

- The controller receives a valid exit request signal.

2. <u>Door lock does not unlock</u>

- The lock relay is not triggered.
- This prevents the door unlocking unintentionally whenever motion is detected near the sensor.

3. <u>No Door Forced alarm</u>

- If the door opens within the configured "door opening time" (e.g., 7 seconds), the controller treats the motion as a valid internal exit.
- No door forced alarm is generated.

4. <u>No exit event is logged</u>

- To avoid event spam (e.g., people passing near the door), no valid exit event is created.

5. <u>Door left open detection still applies</u>

- Once the door is open, the usual "Door Left Open" delay (e.g., 1 minute) applies.

6. <u>Forced door alarms still work normally</u>

- If no motion/exit request occurs before the door is opened, and no credential has been presented, the controller will still raise a door forced alarm.

7. <u>Credential based entry behaves normally</u>

- Presenting a valid credential performs the standard unlock and event behaviour.
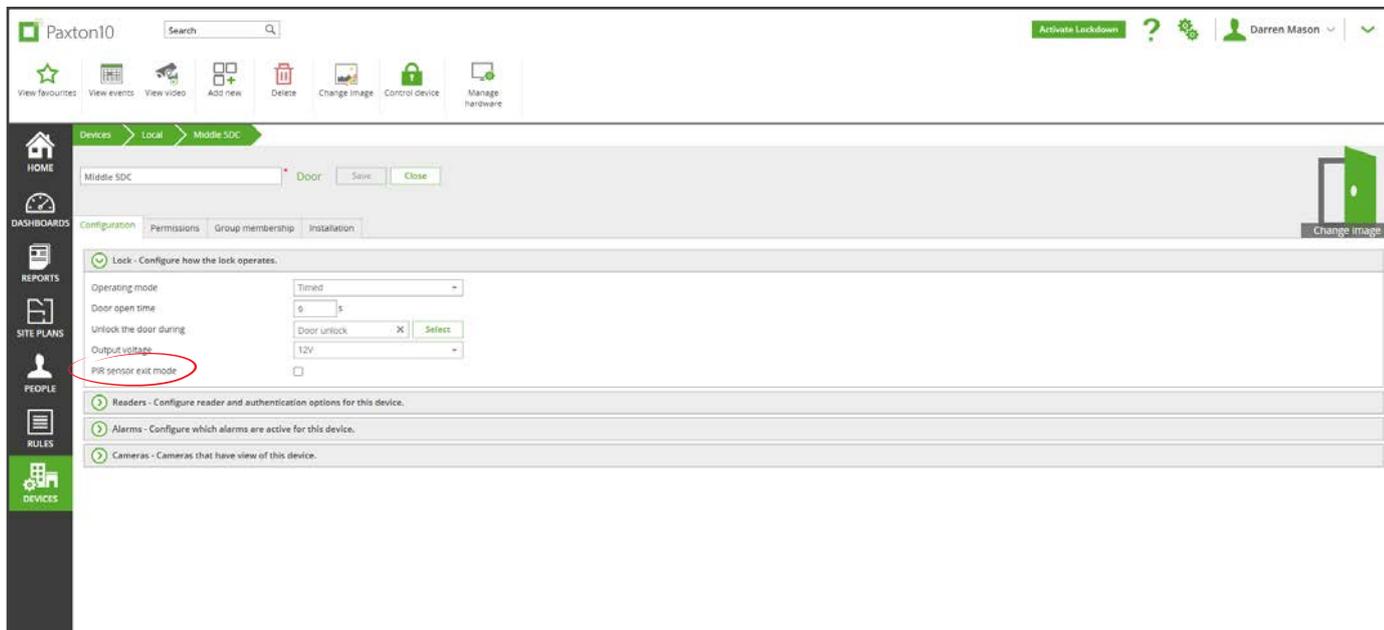
Configuring PIR Sensor Exit Mode in Paxton10

1. Open Controller Settings

- Navigate to Devices
- Select the relevant controller
- Choose the Lock configuration section

2. Enable PIR Sensor Exit Mode

- Locate the following option: PIR sensor exit mode
- Tick the checkbox to enable

Operational Examples

Example 1: Person exits using a crash bar

1. PIR detects motion and exit request signal sent
2. Controller does not unlock the door
3. Person pushes crash bar, door opens
4. No door forced alarm; no exit event
5. If left open too long then the door left open alarm triggers

Example 2: Door is forced from outside

1. No credential presented
2. No PIR motion detected
3. Door contacts open
4. Controller sends a door forced alarm (normal behaviour)

Example 3: Valid credential presented for entry

1. Normal access workflow occurs
2. Lock unlocks
3. Events and alarms behave as standard

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