TIMEGUARD®

Tuya Smart Wi-Fi PIR With Direct / Indirect Switching

Model WFPIRB - Black

Model WFPIRWH - White

1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

Note: Timeguard reserve the right to alter these instructions at any time. Up to date instructions will always be available for download at www.timeguard.com

2. Safety

- Before installation or maintenance, ensure the mains supply to the Wi-Fi PIR is switched off and the circuit supply fuses are removed or the circuit breaker turned off.

- It is recommended that a qualified electrician is consulted or used for the installation of this Wi-Fi PIR and install in accordance with the current IEE wiring and Building Regulations.

- Check that the total load on the circuit including when this Wi-Fi PIR is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

- To clean use a clean dry cloth only. Do not use liquid cleaners.

3. Technical Specifications

- Mains Supply: 220-240V AC 50Hz
- Class Protection: Class II
- IP Rating: IP55
- Operating Temperature: 0˚ to 40˚C
- Wi-Fi Specification: 2.4GHz b/g/n only
- Frequency Range: 2.412 - 2.484 GHz

- Contact Type: Normally Open, micro disconnection
- PIR Switching Capacity: 1000W Incandescent
  500W Fluorescent
  250W LED
- PIR Detection Range: Up to 12m at a 2.5m mounting height (adjustable)
- Dectection Angle: 140° (Fixed)
- Time ON Adjustment: 30 seconds - 30 minutes
- (LUX) level adjustment: 10 - 2000
- Manual Override: Yes (App Based)
- Pan & Tilt Function: 160° Pan / 50° Tilt
- Construction: Polycarbonate
- Dimensions (H x W x D): 100mm x 79mm x 88mm

4. Operating Modes

Switch: Switches relay ON / OFF as required.
Learn: Sets the current lux setting of installation area.
Lux Mode: Disables / enables the photocell depending on the toggle position status on the app.
Time Setting: Adjusts the time delay of the PIR.
Lux Setting: Adjusts the lux setting of the PIR.
Auto: Presence detection mode.
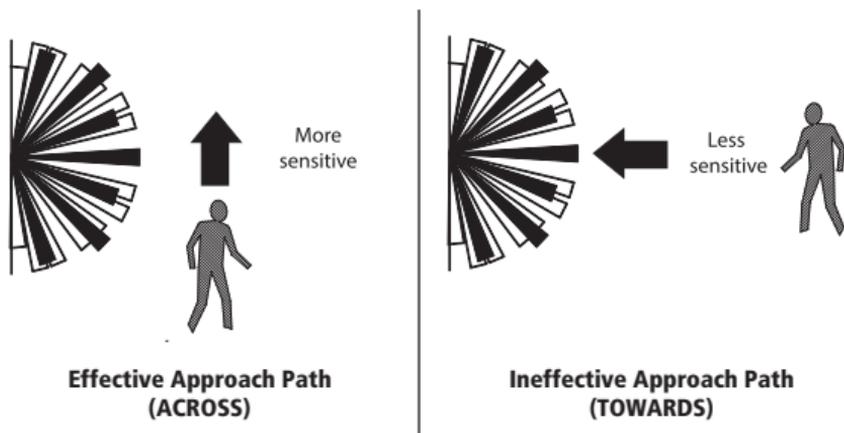**Semi-Auto:** Absence detection mode.
Test: Puts the device in test mode (will trigger day/night for 3 seconds when performing a walk test).

5. System Requirements

• Smartphone/Tablet with at least iOS 9.0 or Android 6.0. Minimum software version requirements will be subject to App updates from Tuya Inc. and not Timeguard.
• WLAN-enabled router: 2.4GHz (Separate Band)
• Tuya Smart App

6. Selecting a location

• The PIR has a number of detection zones at various horizontal and vertical angles as shown below.

More sensitive

Effective Approach Path (ACROSS)
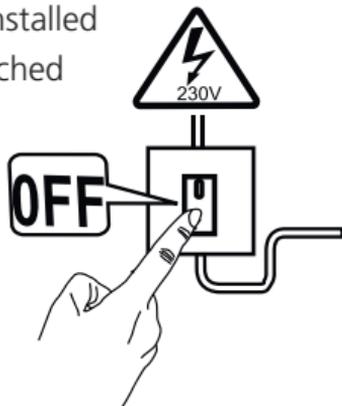
Less sensitive

Ineffective Approach Path (TOWARDS)

• A moving human body or object needs to cross one of these zones to activate the sensor. The optimum height for this is between 1.5m - 2m mouting height. Careful positioning of the PIR is required to ensure the best performance from the PIR and the appointed approach path.
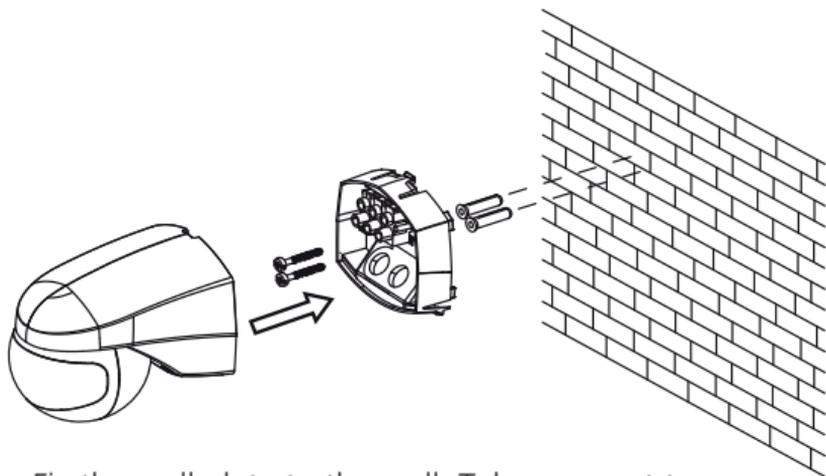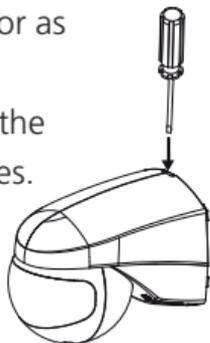
- Avoid positioning the PIR near any sources of heat in and around the detection area such as extractor fans, tumble dryers or boiler exhausts etc. This would also include other light sources such as secuirty lights.
- Reflective surfaces (i.e. pools of water, white painted walls, overhanging branches and other types of foliage) may cause false activation under heightened weather conditions.
- During extreme weather conditions the PIR may exhibit unusual behaviour. Once normal weather resumes, the PIR will carry out normal operations.

7. Installation

- Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- An isolating switch should be installed to enable the power to be switched ON and OFF to the luminaire. This allows the unit to be easily switched OFF for maintenance purposes.
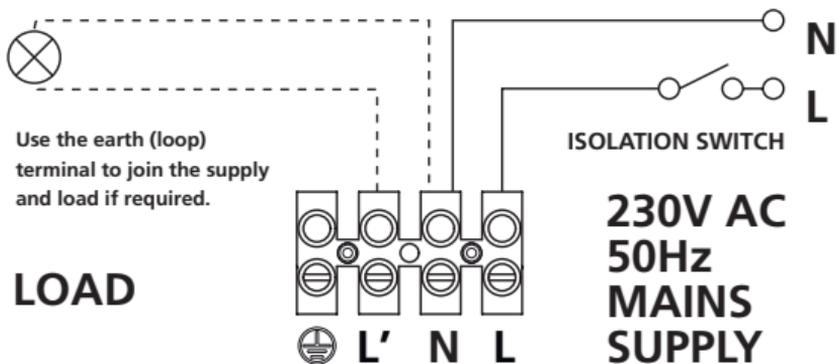
230V

OFF

- Remove the wall plate from the PIR sensor as shown on the diagram.
- Using the wall plate as a template mark the position of the fitting holes. Drill the holes. Then, insert the rawl plugs into the holes.
- Pass the supply cable through the cable entry point on the wall plate, ensuring the grommet(s) is used to maintain the IP rating of the PIR sensor.

- Fix the wall plate to the wall. Take care not to over-tighten the screws to prevent damage to the wall plate. If using a power screwdriver, use the lowest torque setting.
- Terminate the cable into the terminal block ensuring correct polarity is observed and that all bare conductors are sleeved see section 8 (Connection Diagram).

5

8. Connection Diagram

Connect the mains supply cable to the terminal block on the back plate as follows (see connection below).

N

ISOLATION SWITCH

L

Use the earth (loop) terminal to join the supply and load if required.

LOAD

**230V AC
50Hz
MAINS
SUPPLY**

L' N L
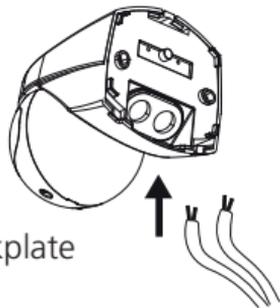
NEUTRAL (Blue)   N
EARTH (Green/Yellow)   ⏚
LIVE (Brown)   L

Connect the cable from the lighting load to the terminal block on the backplate as follows;

EARTH (Green/Yellow)   ⏚
NEUTRAL (Blue)   N
SWITCH LIVE (Brown)   L'

Ensure all connections are secure.

Line the unit up with the wall plate, apply pressure to both sides of the unit until all catches click into place to ensure a weatherproof seal.

9. Commisioning and Operation

• Restore the power from the mains supply breaker or isolating switch and test for the correct operation.

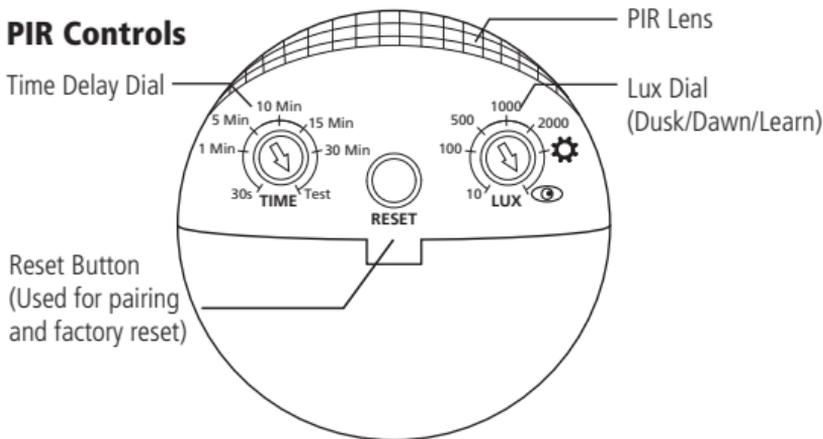# Walk Test Procedure

Important Note: Skip to Section 10, (Pairing Your Device) if you wish to set the lux and timeout parameters via the Tuya Smart app.

• Once the PIR's pan and tilt angles have been set, adjust the time dial (fully clockwise), to test mode. This should bypass the photocell so the walk test can commence at day or night periods.

• The PIR should now switch on the luminaire at anytime where movement is detected. If the PIR fails to switch ON set the lux dial to 2000 lux.

• Once the unit times out to the OFF position walk across the detection area, when the PIR is triggered and the load will turn ON briefly for a set amount of time.

• Once satisfied with the pickup area of the PIR twist the lux dial in the anti-clockwise direction to trigger when dusk is approaching, then set the time delay to your preference. (Best performed in real time conditions).

Note: See page 8 for PIR controls.

PIR Controls

Time Delay Dial

PIR Lens

Lux Dial
(Dusk/Dawn/Learn)

10 Min
5 Min — 15 Min
1 Min — 30 Min
30s **TIME** Test

1000
500 — 2000
100
10 **LUX**

Reset Button
(Used for pairing
and factory reset)

RESET

Note: the sensitivity of the dials can vary slightly

10. Downloading App & Registration

Note: the mobile or tablet device must be connected to a 2.4GHz band on the router. Pairing on the 5GHz band will result in pairing timing out or being unsuccessful. Refer to your ISP (Internet Service Provider) on separating the bands if required.

• Ensure your phone or tablet is connected to your local Wi-Fi network.

• Download the Tuya Smart App onto your phone or tablet by searching for **'Tuya Smart'** on Google Play or the App Store. You can also scan the QR code on page 9 applicable to your device.

- Install the App and open it to the registration screen. Click on the **'Register'** button.
- Tap **'Agree'** to accept the privacy policy.
- Choose your region by selecting your **'Country Code'**. Enter your email address and phone number and click **'Get Verification Code'**.
- Enter the verification code sent to the email address or phone number that you provided. Once you have successfully entered the code, the app will automatically move you to the password screen.

• Assign a password (this must be between 6 to 20 characters including letters and digits) and click **'Done'**. The App home page will now appear.

11. Pairing Your Device(s)

Note: if you are using a VPN, make sure this is disabled before continuing, and ensure that the 2.4GHz Wi-Fi band is enabled for this device, separate from the 5GHz band.

• Once you are on the home page of the Tuya Smart App press the plus button '➕' on the top right hand side of the app.

• Under the **'Add Manually'** menu, select the **'Sensors'** catagory on the left hand side of the app. Then select **'Sensor (Wi-Fi)'** from the devices list.

• Enter the Wi-Fi password for the network your mobile or tablet is curently connected to and then press the **'next'** button.

• Press and hold the pairing (reset) button on the Wi-Fi PIR for 5 seconds, the Wi-Fi connection indicator will begin to flash rapidly.

• Select the **'Confirm the indicator is blinking rapidly'** option on the App, then press the 'next' button to begin the pairing process.

• Shortly into the pairing process, the flashing Wi-Fi light will cease flashing and become stable. This indicates that the device has joined the network.

• Once the pairing process is complete, you can rename the device as required or press **'Done'** to complete the pairing process.

Note: if the pairing process was not successful, follow the bullet points from 'Section 11' to try again ensuring that the conditions for pairing have been met.

12. Smart Home Assistant

For Smart Home Assistant services such as Google Home or Amazon Alexa, follow the on-board instructions on the TuyaSmart App. This can be found under the '**Me'** section on the home page of the App.

Note: The Smart Home Assistant services supported by the TuyaSmart App may change as it is a 3rd party App Service. Any services that may be removed are the responsibility of TuyaSmart developers and not Timeguard.

13. Offline Control

If the device was to lose its Wi-Fi connection to your network, the device will continue to work under the last configured setting applied. For example, if the PIR was set via the app last before going offline, the time and lux values will remain unchanged when offline unless the the PIR settings have been adjusted outside of the app. If the PIR was configured physically, it will run based on these settings and reflect the changes on the app once the PIR is back online.

14. Control Screen

①

Switch: Current ON/OFF Status / Manual
Override Toggle
ON : Active Load   OFF : Non - Active Load

②

Trigger: PIR Trigger Display
ON: Motion Detected
OFF: No Motion Detected

③

Learn
ON: Active / OFF Inactive
After the PIR has completed the learn process,
the toggle will switch off automatically.

④

Manual: PIR switches over from app control to the
the current physical lux and time delay settings.
Once an adjustment has been made in the app,
this will then become the primary method of
control for the PIR. If the dials are adjusted after at
any time, the settings will then sync with the app.

⑤

Suspend Motion Sensor (6 Hours)
ON: When active the PIR will be suspended for
6 hours. The PIR will then revert to the previous
setting before this mode was active.
PIR suspension may be useful for extreme weather
conditions where false activation is common in PIRs.
This process should circumvent the need to cover
the PIR lens or power down the PIR manually.

⑥

Sensor Light
ON: When PIR is triggered, the LED indicator will
flash.
OFF: When PIR is triggered, the LED indicator will
remain blank.

⑦

Disable Photocell
ON: Photocell disabled
OFF: Photocell enabled

⑧

Time Setting: (±30sec):
30 - 1800 Seconds (30s - 30mins)
Adjustable In App

⑨

Lux Setting: (± 5 Lux)
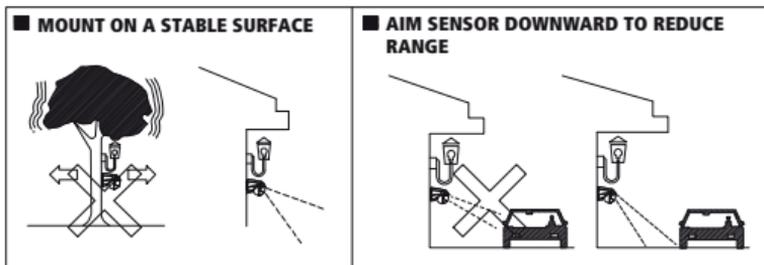5 - 2000 Lux
Adjustable In App

⑩

Mode Selection: Auto (Presence Mode), Semi-Auto (Absence Mode) & Test Mode
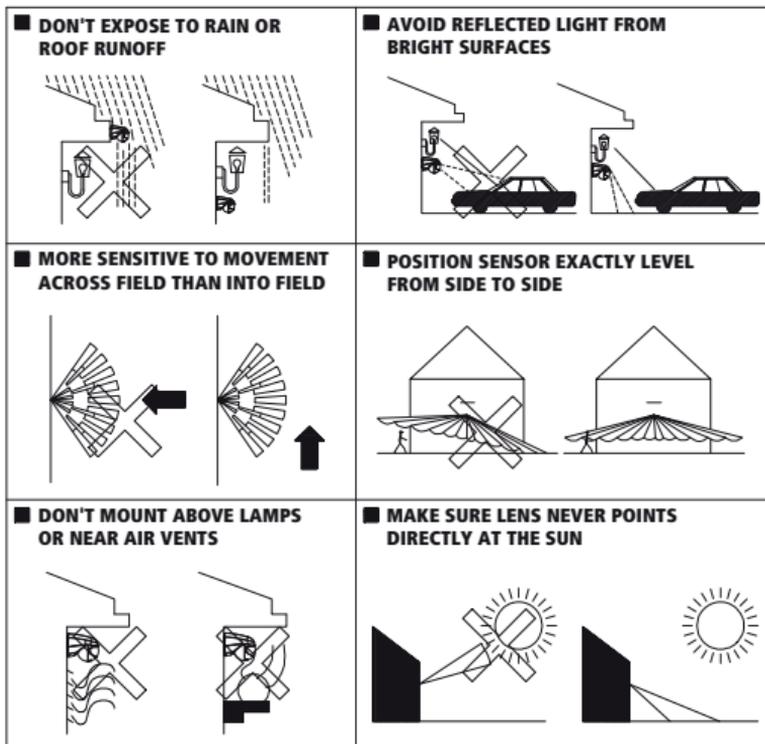When test mode has been set, the PIR will revert to the previous mode after 10 minutes.

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15. Troubleshooting Guide

Problem	Cause/Solution
The luminaire does not switch on when in the detection area.	Bulb faulty or missing.
	Nearby light sources causing interference. Redirect the PIR or light source if possible.
	Smart automation function is not active or set on the app. (Indirect switching only).
False activation. (Luminaire switches on for no apparent reason).	Heat sources as described in section 6.
	Reflective surfaces described in section 6.
	Moving pedestrians, cars or animals in the area. Check the detection area.
	Nearby electromagnetic disturbance from a neighbouring circuit (CCTV interference).
Luminaire remains switched on.	Continuous false activation resetting the delay time when an object is detected.
Luminaire switches on during daylight hours.	Shadow casting over the PIR sensor
	Clouds creating a dark presence.
	Ensure the luminaire receives adequate daylight from all angles (not covered).

MOUNT ON A STABLE SURFACE | AIM SENSOR DOWNWARD TO REDUCE RANGE

■ DON'T EXPOSE TO RAIN OR ROOF RUNOFF	■ AVOID REFLECTED LIGHT FROM BRIGHT SURFACES
■ MORE SENSITIVE TO MOVEMENT ACROSS FIELD THAN INTO FIELD	■ POSITION SENSOR EXACTLY LEVEL FROM SIDE TO SIDE
■ DON'T MOUNT ABOVE LAMPS OR NEAR AIR VENTS	■ MAKE SURE LENS NEVER POINTS DIRECTLY AT THE SUN

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture, within 3 years of the date of purchase, please return it to your supplier with proof of purchase and it will be replaced free of charge. For years 2 to 3 or with any difficulty in the first year, telephone our helpline. Note: a proof of purchase is required in all cases. For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside of the UK. All shipping costs are to be paid in advance before a replacement is sent.

If you experience problems, do not immediately
return the unit to the store.
Email the Timeguard Customer Helpline:

HELPLINE

helpline@timeguard.com
or call the helpdesk on 020 8450 0515

Qualified Customer Support Coordinators will be online
to assist in resolving your query.

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