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1. General Information

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

2. Safety

- Before installation or maintenance, ensure the mains supply to the PIR sensor 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 PIR sensor and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this PIR sensor is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

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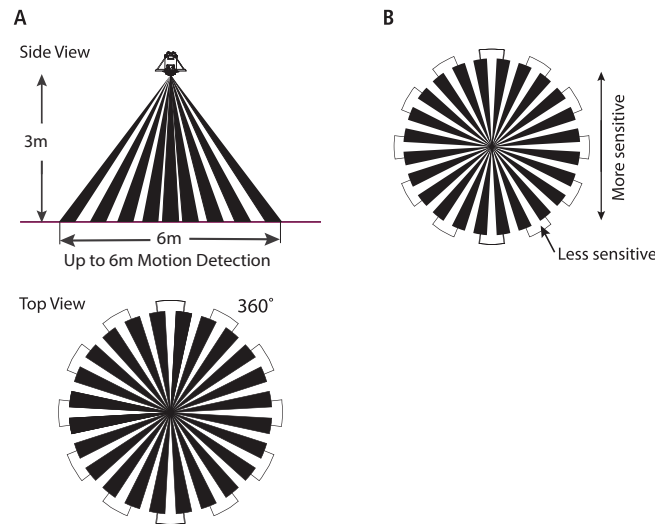
3. Technical Specifications

- 230V AC 50 Hz
- This PIR sensor is of class II construction and must not be earthed
- Motion Detection Range: Up to an 6m diameter at a 3m mounting height
- Detection Angle: 360°
- Maximum Switching Load: 1000W Halogen lighting, 200W Fluorescent and LED lighting
- Time ON Adjustment: 3 seconds to 18 minutes.
- Dusk Level Adjustment: 10 to 1000 Lux, Day and night or night time only operation
- Manual Override: 6 hours max
- Warm-up Time: 60 seconds
- Operating Temperature: -20°C to + 40°C
- Ceiling Cut-out: 40mm
- IP44 Rated suitable for restricted internal applications
- CE Compliant
- Dimensions: H=73mm, W=50mm, D=50mm
- Multiple PIR Sensor Switching: A maximum of 5 STFMMINI PIR sensors can be wired in parallel, to enable any detector to turn ON all the lights connected. The total load must not exceed the lamp rating of a single STFMMINI unit.

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4. Selecting a Location

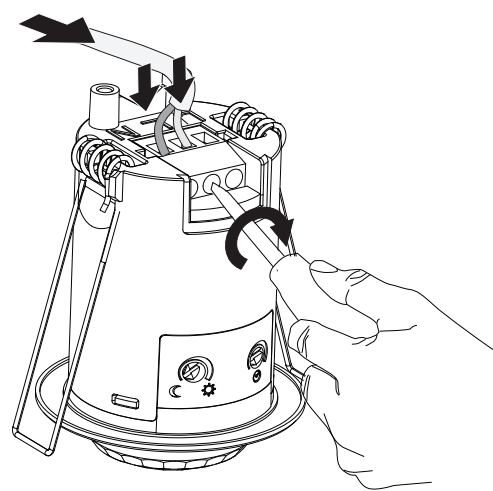
- The motion detector has number of detection zones, at various vertical and horizontal angles as shown (See image "A").
- The best all-round coverage is achieved with the unit mounted at the optimum height of 3 metres.
- Careful positioning of the sensor will be required to ensure optimum performance (see image "A" and "B" detailing detection range and direction).
- The sensor is more sensitive to movement ACROSS its field of vision than to movement directly TOWARDS (See image "B"). Therefore position the unit so that the sensor looks ACROSS the likely approach path.
- Avoid positioning the sensor where there are any sources of heat in the detection area (extractor fans, tumble dryer exhausts etc.) including opposite any other light sources.
- Reflective surfaces (i.e. white painted walls) may also cause false activation.



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5. 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 for maintenance purposes and to activate the manual/auto override function.
- Mark the position of the 40mm diameter fixing hole centre taking care to avoid ceiling joists and other obstructions within the 40mm diameter.
- Using a pad saw or suitable hole cutter cut out a 40mm diameter hole
- Pass the 230V 50Hz mains supply and load cables through the hole and prepare for termination.
- Terminate the cables into the terminal block ensuring correct polarity is observed and that all bare conductors are sleeved (See section 6. Connection Diagram).

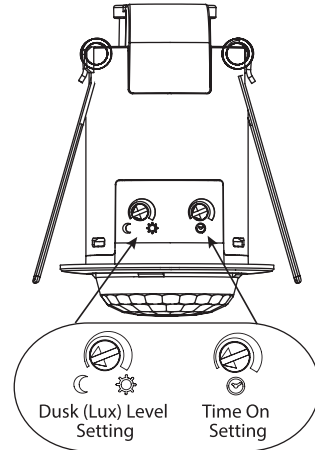


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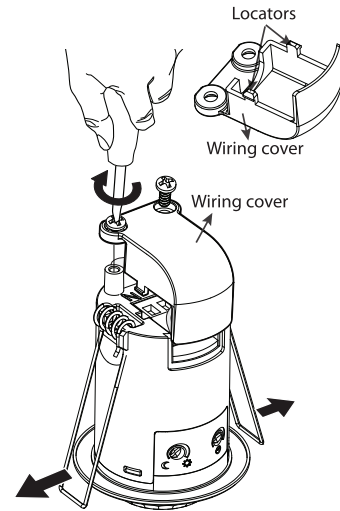
- The adjustment knobs located beneath the sensor head are factory set to "Walk Test Mode". Double check they are set as follows;

Time ON setting – Fully anti-clockwise

Dusk (Lux) level setting – Fully clockwise

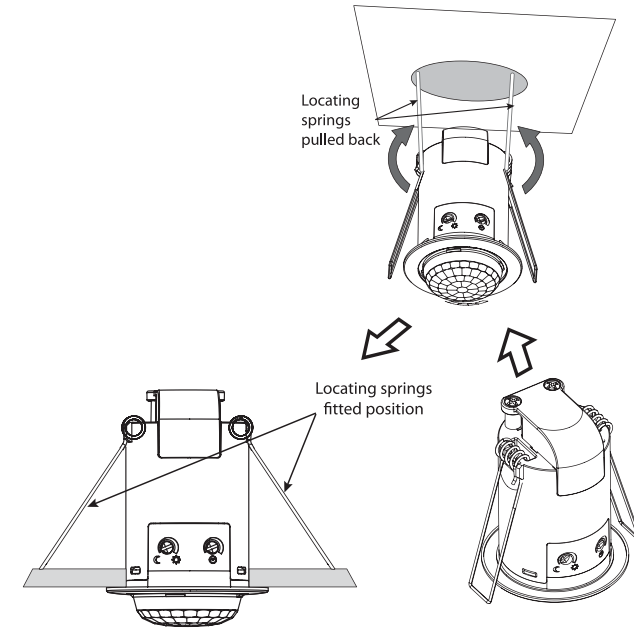


- Fit the wiring cover and secure into place using the 2 fixing screws supplied, making sure not to over tighten.



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- Push back the locating springs and feed the unit into the ceiling void via the 40mm hole. The locating springs will now fold back and hold the STFMMINI in place.



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

HELPLINE
01582 544 548

or email helpline@timeguard.com

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

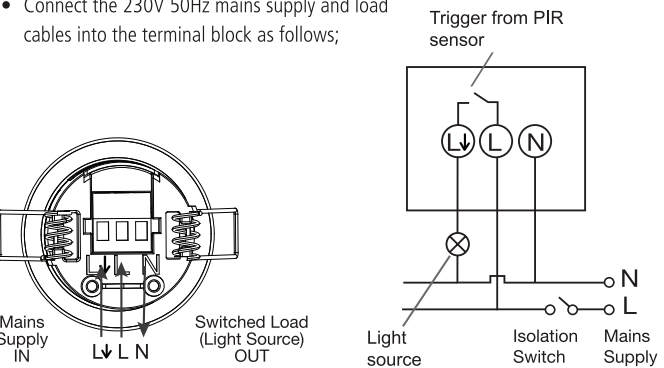


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67.058.590 INS 0816 V3.0 09/2024

6. Connection Diagram

- Connect the 230V 50Hz mains supply and load cables into the terminal block as follows;



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230V 50Hz Mains Supply
Live Supply (Brown or Red) to **L**
Neutral Supply (Blue or Black) to **N**

Load (Light Source)
Switch Live (Brown or Red) to **L**
Neutral Load (Blue or Black) to **N**

7. Walk Test Procedure (Test Mode)

- Turn the power to the unit ON. The lamp will immediately illuminate as the unit goes through its "warm-up" period. After approximately 1 minute the lamp will extinguish. This indicates the unit is wired correctly and the unit is in Test Mode.
- Try to remain outside the detection area during the warm-up period.
- The unit will now operate during daytime as well as at night, illuminating the lamp for approx. 3 seconds each time. This allows testing to be carried out to establish whether the sensor is covering the required area.
- Walk around the sensor to establish the detection area. The sensor will detect within an approximate 6metre diameter circle from the centre of the sensor location, with a 3m ceiling height. As you cross a detection area the lamp will illuminate.

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8. Setting Up for Automatic Operation (Auto Mode)

- When the walk tests are complete, the unit can be adjusted for automatic operation.
- The Time ON setting controls how long the unit remains illuminated following activation and after all motion ceases.
- The minimum time (fully anti-clockwise) is approx. 3 seconds, whilst the maximum time (fully clockwise) is approx. 18 minutes. Set the control to the desired setting between these limits.
- The Dusk (Lux) setting control determines the level of darkness required for the unit to start operating. The setting is best achieved by the procedure below;
 - Set the Dusk (Lux) setting control knob fully clockwise.
 - When the ambient light level reaches the level of darkness at which you wish the lamp to become operative (i.e. at dusk) SLOWLY rotate the control knob in an anti-clockwise direction until a point is reached where the lamp illuminates.
 - Leave the control knob set at this point.
- At this position the unit should become operative at approximately the same level of darkness each evening.
- Observe the operation of the unit. If the unit is starting to operate too early (i.e. when it is quite light) adjust the control knob slightly anti-clockwise. If the unit starts to operate too late (i.e. when it is very dark). Adjust the control knob slightly clockwise.
- Continue to adjust until the unit operates as desired.

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9. Manual Override Mode

The light can be switched ON for longer time periods by use of the Manual Override Mode. This can be activated at night by using the isolation switch.

- Switch the isolation switch once (OFF/ON) within 1.5 seconds.
- The unit will now illuminate continuously for approximately 6 hours or until it is switched back into Auto Mode.
- To return to Auto Mode switch the isolation switch OFF and then back ON again within 1.5 seconds.

10. Troubleshooting

Problem	Solution
The lamp stays ON at night.	Cover the PIR lens with a thick cloth. If the light turns OFF, check the detection area for heat or a reflective source. If the light stays ON, check the wiring (See section 6. Connection Diagram).
The PIR keeps activating for no reason at random.	Turn OFF at the isolation switch. Turn back ON again after 30 seconds. Leave for approximately 15 minutes. If the light activates, check for false activation from heat, wind or a reflective source.
The PIR will not operate at all.	Check that the power is switched ON at the power supply or isolation switch. Turn OFF the power to the unit and check the wiring connections. Check the lamp (if it's changeable). If the lamp has failed, replace. Ensure the lamp is seated correctly in the lamp-holder. Please note that the unit will not detect through glass (e.g. in a glazed porch).

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- The PIR sensor will not operate at night.
The level of ambient light in the area may be too bright to allow operation at the current Dusk (Lux) level setting. During the hours of darkness, adjust the Dusk (Lux) level setting control knob slowly anti-clockwise until the lamp illuminates.
- The PIR coverage is poor/sporadic.
The PIR may be poorly located (See section 4. Selecting a location) and re-locate the unit.



**360° Flush Mount
Mini PIR Sensor**

Model: STFMMINI



Installation & Operating Instructions