

- Have another person move across the desired perimeter of the area to be scanned and slowly adjust the SENS knob until the unit activates. Note reducing SENS will reduce both normal and occupancy zones
- To set the light level at which the lights will automatically switch "on" at night, turn the LUX control knob from daylight (\*) to night (C). If the lights are required to switch on earlier, e. g. Dusk, wait for the desired light level, and then slowly turn the LUX control knob towards daylight while someone walks across the center of the area to be detected. When the lights activate, release the LUX control knob. You may need further slight adjustments to achieve your ideal light level setting
- Once LUX and SENS are calibrated, adjust TIME to suit site requirements.
- Duplicate these settings for similar locations

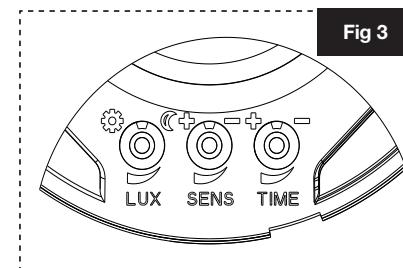


Fig 3

## INSTALLATION INSTRUCTIONS



## Model: LHT0179 360° PIR Sensor - Dual Mount

Thank you for purchasing this SIMX PIR Sensor. This sensor is suitable for indoor use, and restricted outdoor applications only. Please read this manual thoroughly before installation and retain for future reference.

### DETECTION RANGE

This Triple PIR sensor has a normal detection range in open space of max 22 meters diameter. As this detection zone is circular, please ensure an adequate overlap in your layout to eliminate dead-zones.

### OCCUPANCY ZONE

This PIR Sensor has a high sensitivity Occupancy Zone of 6 meters diameter. In this zone, the sensor will detect small movement to activate lights or keep those lights illuminated.

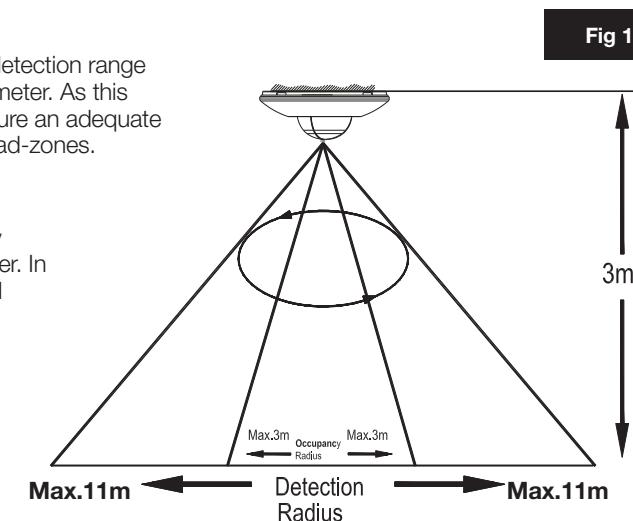


Fig 1

### MANUAL OVERRIDE MODE

- The circuit can be switched on for an 8 hour period by using the Manual override. Operation in this mode bypasses the PIR sensor. This can be activated at any time by using the internal wall switch or circuit breaker.
- Toggle the internal wall switch/circuit breaker twice (off/on/off/on) within 3 seconds. The circuit will now be switched on continuously for 8 hours or until switched back to Auto mode.
- To switch the unit back to Auto mode, toggle the internal wall switch/circuit breaker twice (off/on/off/on) within 3 seconds (Same operation as activating Manual Override). The unit will return to Auto mode.

### ! TECHNICAL SPECIFICATIONS

<b>Power supply:</b>	220~240V AC 50 Hz
<b>Wattage:</b>	Max. 2000Watt~ incandescent bulb (Resistive) Max. 600Watt ~ fluorescent lamps (Inductive) Max. 200Watt ~ light emitting diode (LED)
<b>Detection range:</b>	360° Max. 22 meters diameter for normal detection Max. 6 meters diameter for occupancy detection
<b>Delay time:</b>	From (10±5) seconds to (40±5) minutes adjustable
<b>Lux control level:</b>	Adjustable Daylight to Night 2-2000lux
<b>Auto/Manual:</b>	Yes (Off/On/Off/On) within 3 secs
<b>IP Rating:</b>	IP44 - Surface Mounted IP20 - Recess Mounted Due care during installation will maintain the IP Ratings Intended use of this product is ceiling orientation only.

### ! IMPORTANT

SIMX strongly recommend that this sensor is installed by a suitably qualified and registered electrician.

Please read the entire Installation Instructions and Calibration Settings before installing this product.

All electrical work must be carried out in accordance with local and national electrical codes as applicable.

Always switch power off prior to installation.

A means of power isolation must be installed on the circuit for the purpose of safe access for any internal cleaning, recalibration or maintenance.

This appliance is not intended for installation or calibration by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning its use by a person responsible for their safety.

There are no user-serviceable parts in this product.

Any changes or modifications made or attempted to this product without the prior written approval of the manufacturer will void any and all stated warranties. This excludes normal calibration of the Sens, Time and Lux control setting knobs as described in these installation instructions.

## INSTALLING THE SENSOR

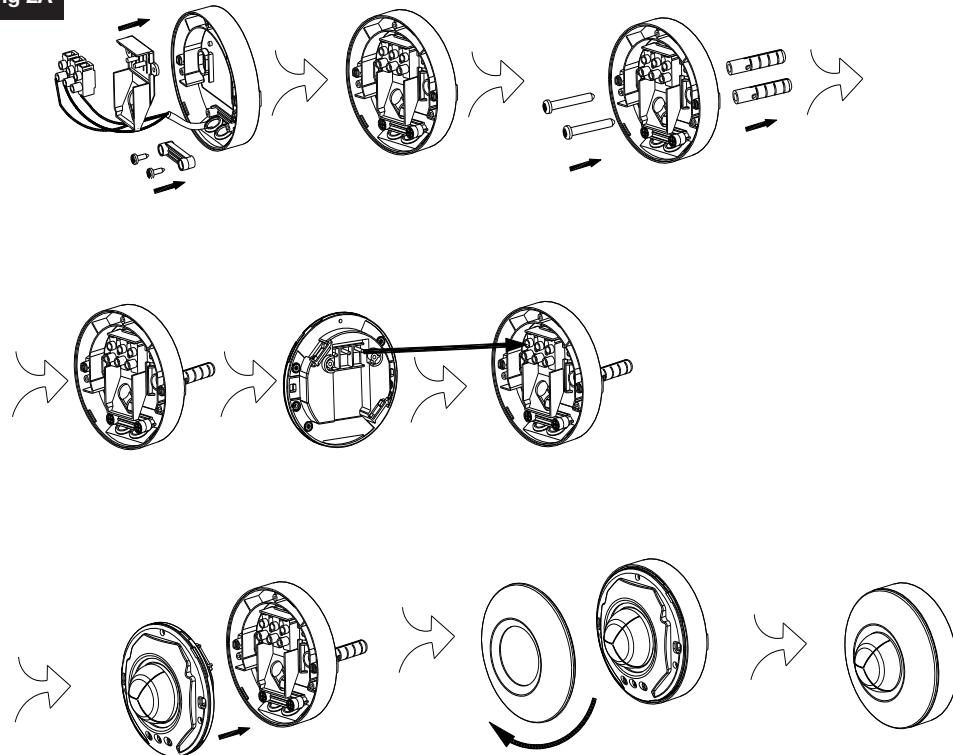
Before commencing any electrical work, ensure the mains supply is isolated by switching off and removing the relevant fuse.

Exceeding the maximum rated load may cause overheating and probable failure of this sensor. Please exercise care!

### A: SURFACE MOUNTING TO CEILING (FIGURE 2A)

1. Remove the front cover
2. Unscrew the cable clamp, and remove the Junction Box and Terminal Block
3. Use the Base as a template to mark the screw holes into the ceiling. Pre-drill the lining to depth of 35mm and fit the plastic plugs, and then affix the Base securely. Care should be taken to avoid drilling or screwing any concealed services inside the ceiling void.
4. Connect circuit wiring to the terminal block as labelled.
5. Secure the Junction box & Terminal block to the PIR and tighten cable clamp over Mains Cable.
6. Carefully align the male terminal pins, click the PIR body onto the Base then re-fit the front cover.

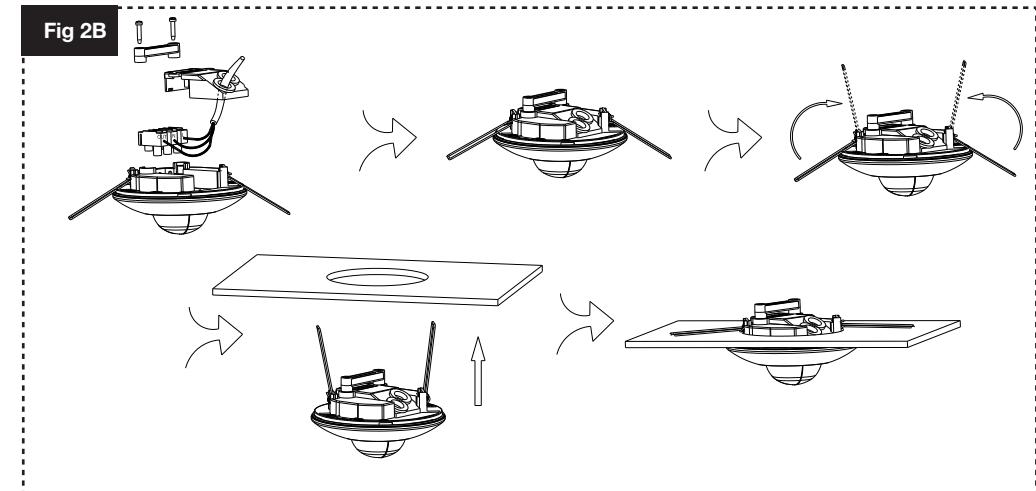
Fig 2A



### B: RECESS MOUNTING TO CEILING (FIGURE 2B)

1. Unscrew the Cable Clamp, remove the Junction Box and Terminal Block.
2. Discard the Base piece for recess mount applications – not required
3. Connect circuit wiring to the terminal block as labelled.
4. Refit the Terminal Block, Junction Box and Cable Clamp.
5. Fit springs, carefully lift the spring clips into the 82-88mm diameter hole, and recess the PIR to the ceiling. The spring clips will secure the unit. Refit the front cover.

Fig 2B



### CALIBRATION SETTINGS (Figure 3)

#### LIGHT CONTROL SETTING:

The Lux control is a built-in sensing device (photocell) that detects daylight and darkness. (\*) position denotes the light can activate during daylight and night. (C) position denotes the light can activate only at night. You can set the unit to operate at the desired switch on level by adjusting the LUX knob

#### TIME SETTING:

The duration time is the length of time the circuit stays 'on' after activation. The duration time can be adjusted from (10±5) seconds to (40±5) minutes. Rotating the TIME knob from (+) to (-) will reduce the duration time. Note: Once the circuit has been triggered by the PIR sensor any subsequent detection will start the timed period again from the beginning.

**SENSITIVITY SETTING (REACH):** The sensitivity set to (+) provides the maximum distance which PIR Sensor can be triggered by body movement. Turning the SENS knob from (+) to (-) will decrease both the sensitivity and activation zone.

#### SETTING THE CONTROLS

1. Put the LUX control knob to light (\*) position, turn the wall switch on and wait half a minute for the control circuit to stabilize. At this stage ensure that the TIME control knob is set at minimum duration time (-) position. The connected circuit will now switch on and remain on for about 30 seconds (within 60 seconds).