**CHALLENGER**

YOUR PARTNER IN A MORE SECURE FUTURE

# MODEL: SL04B

**We are delighted that you have purchased this PIR Light. This light is suitable for indoor or outdoor use. Please read this instruction manual before installation and retain for future reference.**
**IMPORTANT: Never modify the unit, there are no user serviceable parts inside. Not suitable for use with dimmer switches. Install in accordance with IEC Wiring Regulations.**
***THE LIGHT SHOULD BE INSTALLED BY A QUALIFIED ELECTRICIAN.***

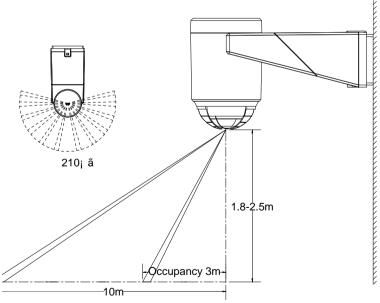

210¡ã

1.8-2.5m

Occupancy 3m

10m

Fig.1 Detection Area

## OCCUPANCY
The PIR Sensor has an Occupancy Range of Radius 3 meters. In this range, the sensor will detect small movement.
If you want to achieve best results, we suggest you take into account the following points:
1. **The Occupancy Range is 3 meters.**
2. **We suggest the delay time must be set more than 10 minutes.**
3. **The PIR Sensor must worked at 25˚c or lower and dry weather (normal temperature)**

## POSITIONING THE LIGHT
**When selecting the mounting position, take into account the following points:**
1. The sensor is designed for optimum performance when mounted at a height of between 1.8.5 to 2.5 meters (see Figure 1)
2. Avoid pointing at or positioning close to heat sources such as heaters or heat extraction units, which may cause false triggering.
3. Avoid pointing at bright lights as the PIR sensor will not function when you set Lux control level to dark (☾ position).
4. Avoid mounting at strong electromagnetic disturbance, i.e. near electrical motor or fluorescent lamp ballast.

## INSTALLING THE LIGHT
**Before commencing any electrical work, ensure the mains supply is isolated by switching off and removing the relevant fuse. (See Figure 2 A ,B and C)**
**A.B.  Wall and Ceiling Mounting(Figure 2A and B)**
1. Use a screwdriver to remove the bottom
2. Remove the Junction Box and Terminal Block
3. Use the **Bottom Cover** to mark the position of screw holes onto mounting surface. Drill the wall to depth of about 35mm and fit the plastic plugs, and then fix the **Bottom Cover** to the mounting surface with rightly screws. Care should be taken to avoid drilling or screwing into concealed electrical wiring.
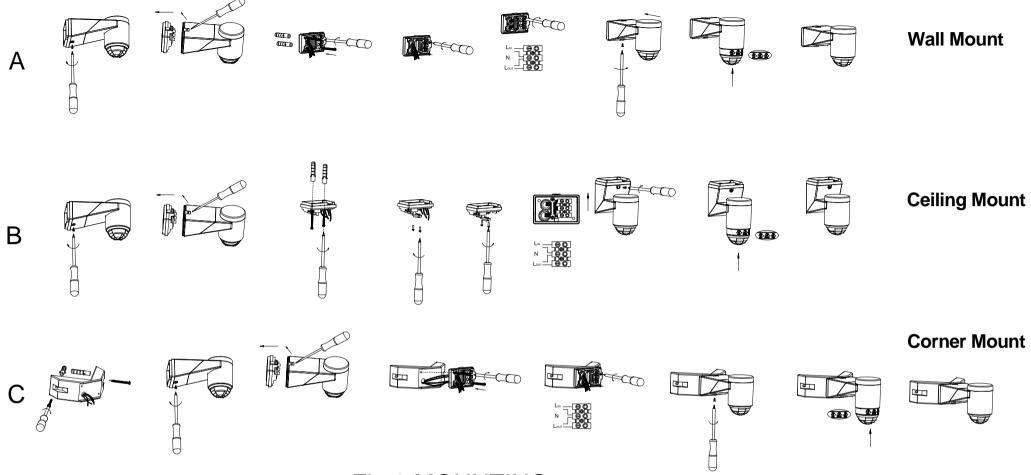
**Wall Mount**

A

**Ceiling Mount**

B

**Corner Mount**

C

# Fig.2 MOUNTING

4. Connect mains wiring to the terminal block.
5. Refit the Terminal Block , Junction Box.
6. Fit the main body onto the Bottom  Cover.

**C.  Corner Mounting(Figure 2 C)**
1. Remove the bottom corner mounting support
7. Use a screwdriver to remove the bottom
2. Remove the Junction Box and Terminal Block
3. Use the corner mounting support to mark the position of screw holes

onto mounting surface. Drill the wall to depth of about 35mm and fit the plastic plugs, and then fix the corner mounting support to the mounting surface with rightly screws. Care should be taken to avoid drilling or screwing into concealed electrical wiring.Connect mains wires to the terminal block.

4. Connect mains wiring to the terminal block.
5. Refit the Terminal Block , Junction Box.
6. Fit the Bottom  Cover onto the corner mounting support
7. Fit the main body onto the Bottom  Cover

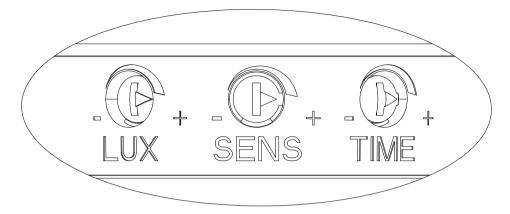After finishing the installation operation, you can adjust the working state of



# Fig.3 Knob

the PIR SENSOR

**ADJUSTING THE LUX (LIGHT) CONTROL LEVEL:**
The Lux control is a built-in sensing device (photocell) that detects daylight and darkness.
(☀) position denotes the light can be turned on during daylight and night.
(☾) position denotes the light can be turned **only** at nigh.
You can set to operate the unit at the desired level by adjusting the LUX knob

**ADJUSTING THE DURATION TIME:**
The duration time is "the length of time that light switches '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 light has been triggered by the PIR sensor any subsequent detection will start the timed period again from the beginning.

**ADJUSTING THE SENSITIVITY:** The sensitivity means the Maximum distance which PIR Sensor can be triggered by movement body. Turning

the SENS knob from (+) to (-) will decrease the sensitivity.

## 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 floodlight will now switch on and remain on for about 30 seconds (within 60 seconds).
2. Direct the sensor toward the desired area to be scanned by adjusting the swivel joint on the sensor arm.
    Important: loosen the lock nuts and screws on sensor and floodlight before making any adjustments.

3. Have another person move across the center of the area to be scanned and slowly adjust the angle of the sensor arm until the unit sensors the presence of the moving person, causing the floodlight to switch on.
4. Adjust time control to required setting.
To set the light level at which the floodlight will automatically switch "on" at night, turn the LUX control knob from daylight (☀) to night (☾). If the floodlight is 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 floodlight switches on, release the LUX control knob. You may need to make further adjustments to achieve your ideal light level setting

## TECHNICAL DETAILS:

Voltage:         230 V~ 50 Hz

Wattage:         Max. 2000Watt~ incandescent bulb (Resistive-Load)

Detection range: 210° Max. 10meters radius for normal detection

                        Max. 3meters radius for occupancy detection

Delay time:      From (10±5) seconds to (10±2) minutes adjustable

Lux control level: Daylight to Night adjustable

CE     RoHS

**Due to our policy of continuous improvement we reserve the right to change specification without prior notice.**

**Errors and omissions excepted. These instructions have been carefully checked prior to publication. However, no responsibility can be accepted by Challenger Security Products for any misinterpretation of these instructions.**

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