USER MANUAL AND INSTALLATION GUIDE

PART NAME:WPWM-88D

This document contains the complete user manual and installation guide for the device WPWM-88D. It also contains the connection diagrams that enable the user to employ our retrofit technology without causing damage to the current wiring situations leading to delay or disturbance in the current working environment.

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www.whiteplacard.com

Brief Introduction

WPWM-88D PIR Light Switch is a User friendly electronic gadget that can play a vital role in ENERGY SAVING, eliminating manual control on application lighting. Its sleek and easy to adjust interface helps the user to trim gadget to application suitable output. One can adjust ON-Time, LUX Trip level and sensitivity at the tip of a screw driver for well groomed and dependable performance.
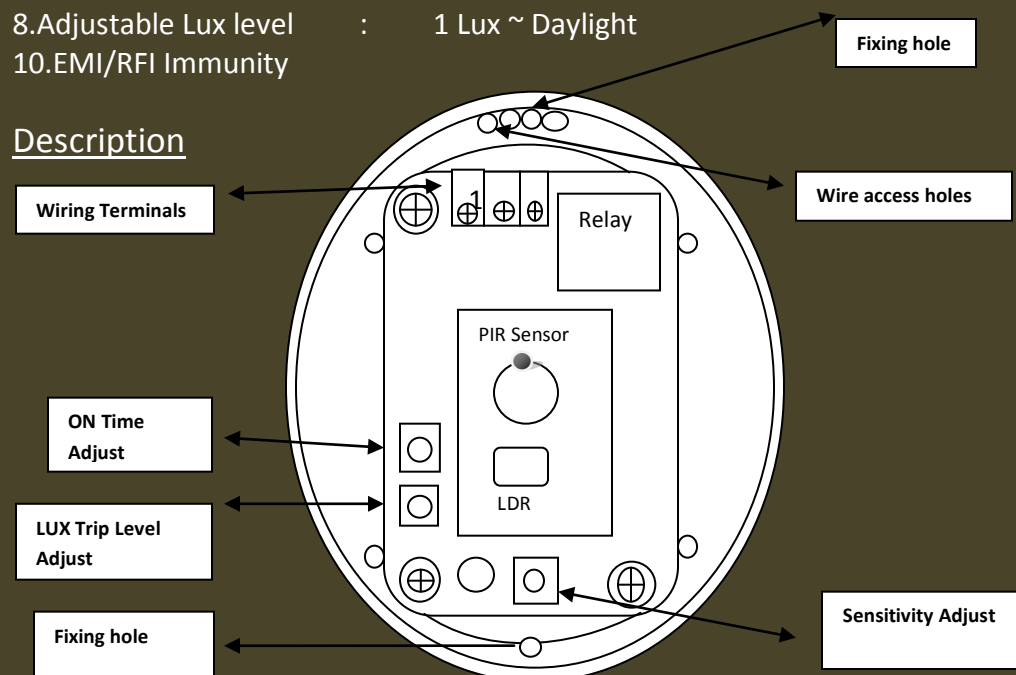
Features

1. Synchronous with AC230V, 50Hz.
2. Low power consumption.
3. Zero crossing (ZC) switching
4. Noise rejection circuit
5. Override function for ON (manual)/AUTO/Quick check (test)mode directly from power switch
6. Light sensor to Disable output during daytime
7. Adjustable ON time LUX trip level , Sensitivity
8. Auto-Reset incase ZC signal disappears
9. Wall /Ceiling mount

Specifications

1. PIR sensor   :   Dual element
2. Power Supply   :   230V AC+_10%,20mA Max
3. Maximum Load   :   5A/250 VAC(1250VA Max)
4. Alarm period   :   75 seconds to 20 minute
5. Detectable Speed   :   0.5-15 m / Sec
6. Mounting Height   :   2.1 m Typical
7. Detection Range   :   88.0 x 18m
8. Adjustable Lux level :   1 Lux ~ Daylight
10. EMI/RFI Immunity

Description

Fixing hole

Wire access holes

Wiring Terminals

Relay

PIR Sensor

ON Time Adjust

LUX Trip Level Adjust

LDR

Fixing hole

Sensitivity Adjust

Installation

Environmental Precautions

Ensure that the following conditions are avoided in site selection:

1. Rapid environmental temperature changes

2. Vibrating place

3. In fluid corrosive gases and sea breeze

4. Exposure to direct sunlight or artificial light

5. Exposure to direct wind from heater or air conditioner

Pre Installation Checklist

Every PIR light switch is fully tested and examined before delivery. We recommend checking your piece of PIR light switch for the following:

1. The model number of PIR light switch matches the model number you have ordered.

2. The model is intact without any damage during shipment.

Note: Do not connect the supply to PIR light switch if there is any sign of damage. Contact you supplier in case of any queries regarding the shipment of condition of the model.
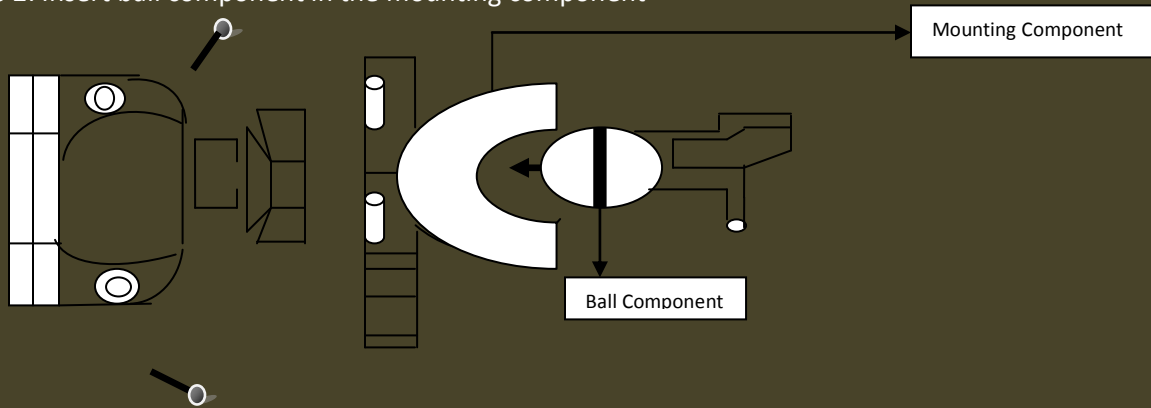
Mounting the Product

**Mounting the PIR light switch without bracket: Skip steps 1 to 4**

Wall / Ceiling Fixing Screw

Ball position Fixing Screw
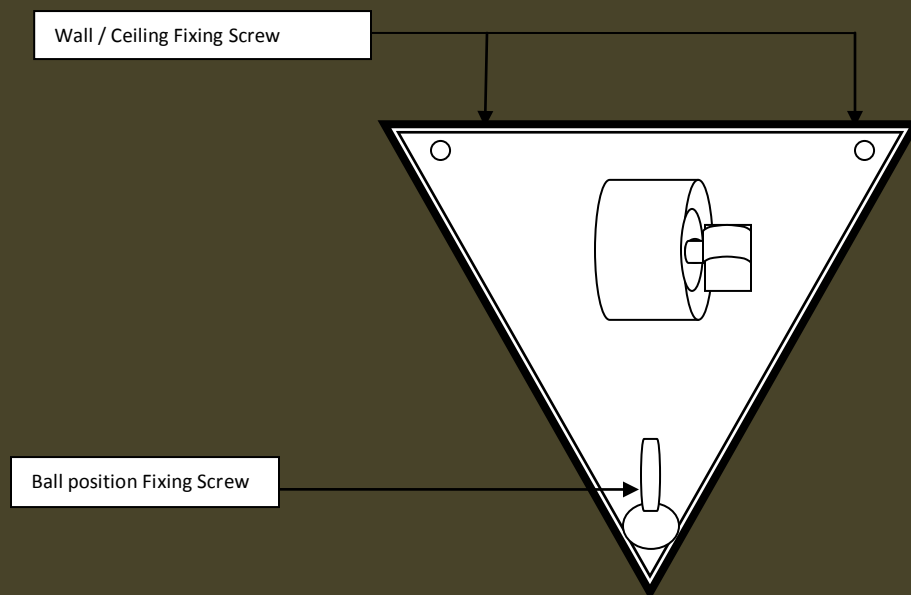
Step 1: Release ball position fixing Screws

Step 2: Insert ball component in the mounting component

Mounting Component

Ball Component

Step 3: Mark the mounting hole positing of wall component on the wall and drill the holes.
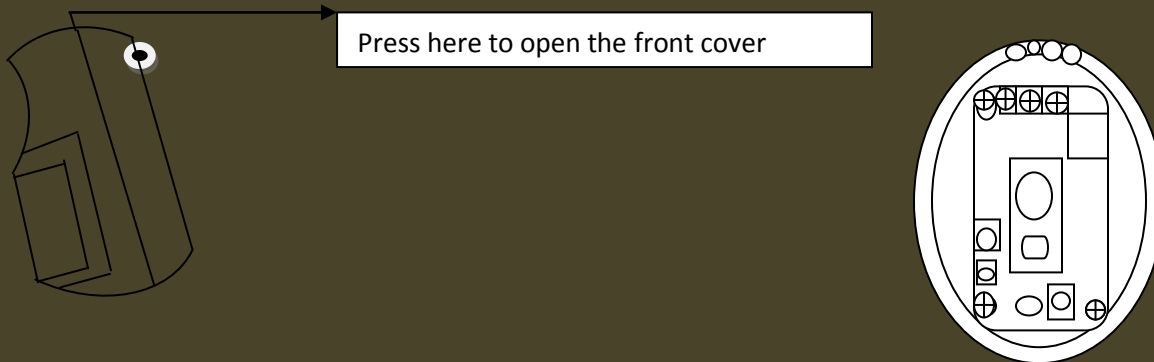
Step 4: Mount the well component on wall.
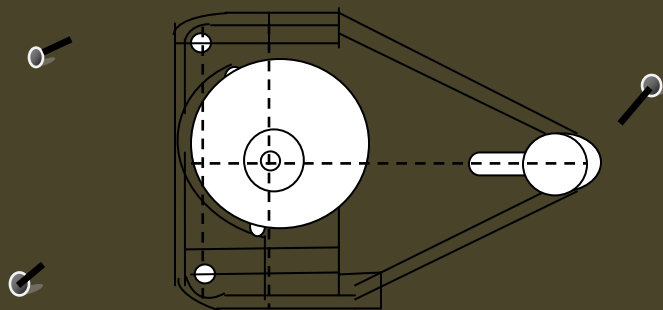
Note: Do not touch the optic (Lens as well as the sensor).

Step 5: Open the front cover by slightly pressing on TOP of the Unit

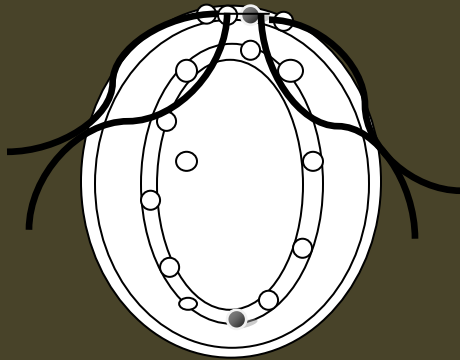Step 6: Remove the PCB from Unit base by releasing the PCB Fixing Screws.

Press here to open the front cover

Step 7: Knock out the wire access hole.

Step 8: Lead wire through the access hole.

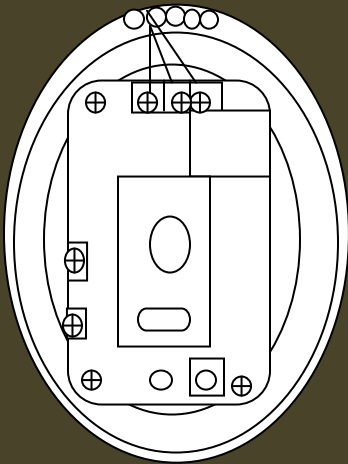**Note: Step 9 and 10 will be used for PIR without bracket**.

Step 9: Mark on the mounting hole position and drill the holes.

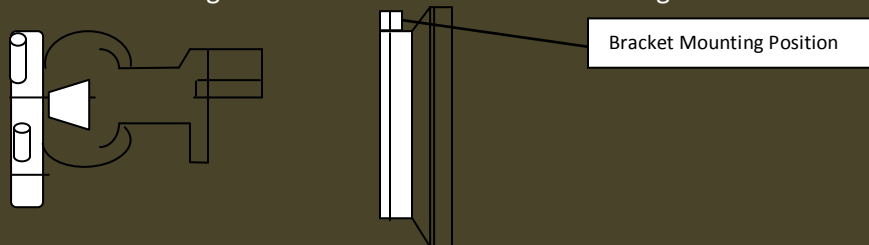Step 10: Mount the Unit base firmly on the wall

Step 11: Complete the wiring as shown in wiring connection section

Step 12: Fix PCB to unit base with the Help of PCB Fixing screws.

Note: Step 13 will be used for PIR with Mounting Bracket.

Step 13: Fix Unit base of the PIR Light switch and Swivel arm of mounting bracket with the screws provided.

Bracket Mounting Position

Step 14: Fix the front cover

Step 15: Power on the unit adjust detection zone using the quick check mode

Step 16: Tighten the Position screws.

Quick Check Mode

The unit will enter in quick check mode if it is switched OFF-ON twice within 10 seconds after power ON. The Load will remain on around 1.5 second after sensing motion across the sensor. Unit will enter in Auto mode automatically if it does not sense any motion within 32 seconds.

Override Mode

The term override refers to the change of operating mode by switching the power switch OFF-ON twice within three seconds after the warm up period

AUTO Mode

When working in AUTO mode ,the load will switch ON after detecting motion across the sensor and remain ON for duration set by 'NO' time potentiometer.

ON Mode

The operating mode can be changed to 'ON' by switching the power switch OFF-ON twice within three seconds. Load will remain ON continuously if the unit is working in ON mode and is not overridden to AUTO mode it will return to AUTO mode automatically after 8 hours.

Note: Light sensor cannot be overridden by operating modes.

Adjustable Parameters

ON Time

When working in Auto mode the load will switch ON after detecting motion across the sensor. The ON time of Load can be set from 23 seconds to 4 minutes by adjusting the ON Time Potentiometer from 'MIN 'to 'MAX' position the ON time of the Load will get extended until the sensor the motion across it.

Lux Trip Level

The LUX trip level can be adjusted from 2~2500 LUX by varying LUX Level potentiometer in Clockwise direction.

Sensitivity

Sensitivity of the light switch can be adjusted by varying Sensitivity POT if the sensitivity POT is rotated in clock wise direction (i.e. Min to Max).the detection range covered will be minimum to maximum.
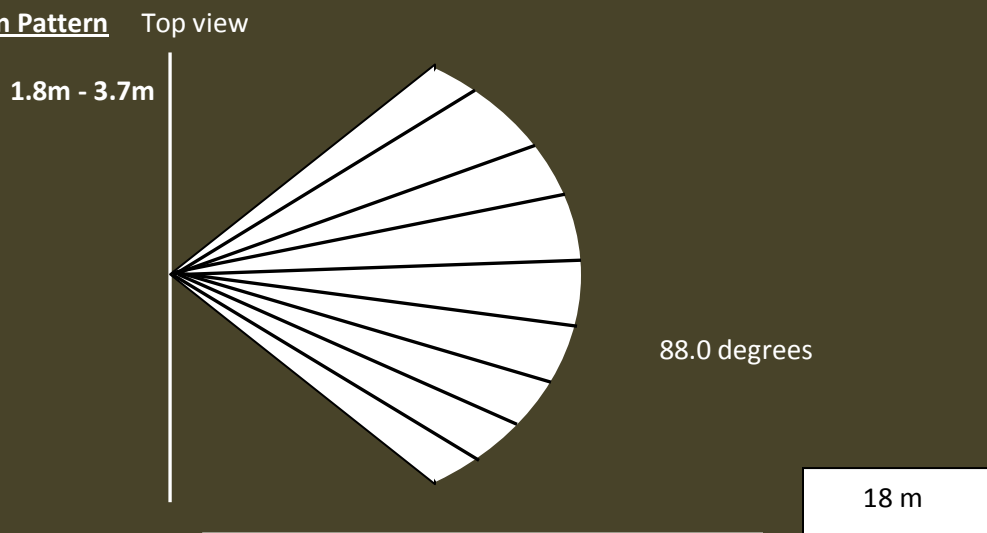
Note: It is recommended to keep the POT at factory calibrated setting.

Wiring Connection

Neutral   ⊕   N

⊕

Live   ⊕   L

Load

LD

L1

L   N
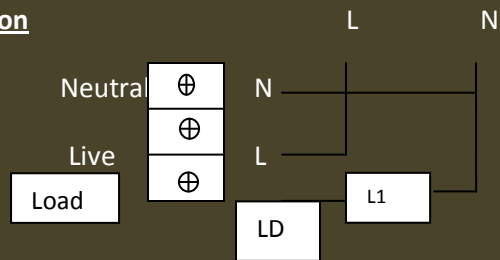
Connect the wires to the respective terminals according to the above given instructions.

Detection Pattern   Top view

1.8m - 3.7m

88.0 degrees

18 m

Troubleshooting

1. Unit/Load is unfunctional : Make sure that
   a) Power and Load connection are Correct.
   b) Unit is exposed to LUX level more than the trip level

2. Load is ON continuously:
   a) Sensor is sensing the signal continuously
   b) The ON time pot is at MAX position
   c) Environmental conditions are not meet.