eSenlite®

LED Ceiling or Wall Light, Activated by Motion, Energy Saving Features
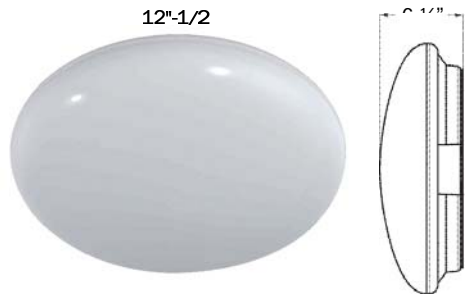*"SMART" - Always Lights Up ...!!!*

12"-1/2

EE118WMC User Manual

Please Read Carefully Before Installing the Unit!

Introduction and Intellectual property Rights Statement

Thank you for choosing the EE118WMC LED SMART Light. With its effortless setup and lightweight design, the EE118WMC LED Smart Light conforms to all your lighting needs. It was designed and made to provide many years of trouble free service using environmentally friendly LED-Doppler Sensing technology. Covered under multiple US, European, China and other international patents granted and pending worldwide. <u>All rights reserved</u>. Contents:

- What's Inside the Package
- Installation
- Functions
- User Tips
- Specifications
- Optional Accessories
- Important Safety Information
- Limited Warranty Information

The Package

1 - LED Sensing Light Unit   4 – Hardware Package with Screws and Anchors to mount the light body   1 - White frosted light body cover

Applications

AC powered LED Sensing Light, with "All in One" Operating Capability:

* Standard - Can be used for new AC lighting installations or to replace existing out-dated light fixtures or lamps as a standard ON-OFF switch controlled light and also for AC power applications that provide continuous illumination.

*Doppler Sensing – Provides outstanding motion sensing performance and unlike standard PIR motion detection it is effective in sensing changes in ambient temperature and it is not blocked by obstacles

*Smart Sensing Profiles – Can be set for either of two pre-selectable dual SMART Energy Saving Modes. If the sensor does not detect any motion in the covered area after the pre-set delay timing window then it can be set to either "*Completely Turn OFF*" or "*Gradually Dim the Lighting*" to your selected pre-set illumination level.

*Dusk to Dawn – Can provide all night Safety/Security lighting; it has a built-in adjustable ambient light photo sensor that automatically turns the light on to a pre-set lighting level when it senses a change in ambient lighting, and the motion sensor/switcher & timer will activate it to full brightness if motion is sensed.
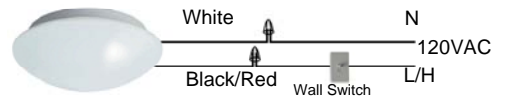
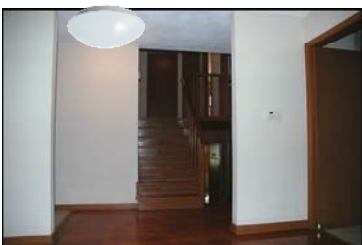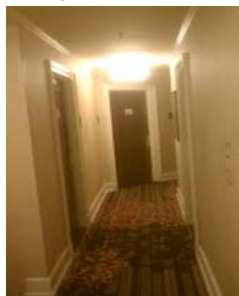### Standard AC Lighting for Residential: (Fig. 1)

Living Area

Bedroom

Restroom

White   N
120VAC
Black/Red   Wall Switch   L/H

Individual New or Replacement Application
Fig. 1

Standard AC Lighting for Commercial, Industrial or Public Facilities: (Fig. 2)
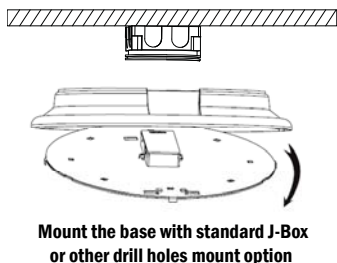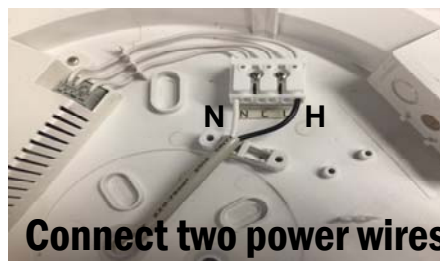
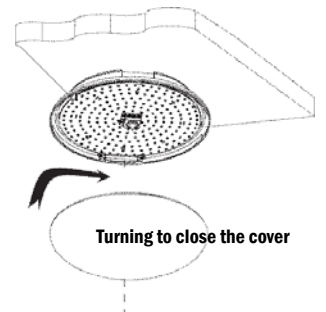Corridor

Hallway

Elevator Lobby

Stairway

Installation

Turning to Open the cover

Mount the base with standard J-Box or other drill holes mount option
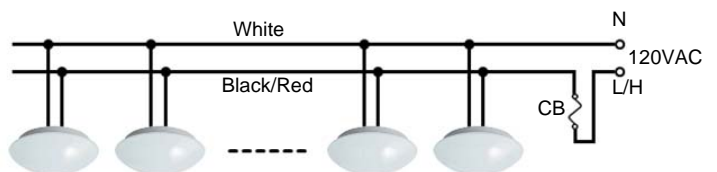
N   H
Connect two power wires
Fig. 1A

Turning to close the cover

- **Mount & Setup** (Turn power OFF before installing)
Screw the light fixture base onto the pre-installed/existing electric standard J-Box and connect power wires (N & L /H), **refer: Fig. 1, 1A & 4**. For concrete/brick/stucco surface without the J-Box: It is best to drill clearance holes using a 3/16" masonry bit then insert plastic anchors and screw the base into position. Make sure mounting is secured and safe by your local electric code. Then power ON as general lighting control for normal lighting function.

- **Apply as Standard Light:**
Just connect with AC power source (120V AC) as any standard lighting system. The light can then be manually turned *On* and *Off* via a standard wall mounted switch as general lighting with motion activated or dimming function (**refer: Fig. 1, 1A**).

White   N
120VAC
Black/Red   CB   L/H

Multiple New or Replacement Application
Fig. 2

- **Apply as Dusk to Dawn Automatic Motion Activity Lights:**

For hallway/corridor, stairway, public restroom, elevator lobby and any secured common area. The unit(s) is just as easy to connect with AC power (120V AC) as any standard new or replacement lights. When the power is **ON** all the time, this light will automatically convert to its light sensing function, and it will only illuminate to the pre-set ambient light level and detect any movement within the delay period time. You can adjust the relay sensitivity, delay time and starting ambient light level as required for your application. (**refer: Fig. 1A, 2**)

- **Doppler Motion Sensitivity:**

Turn the knob clockwise to increase the sensitivity of motion detection, reverse way to decrease its sensitivity. Unlike other types of motion sensors (PIR e.g.), Doppler/Microwave sensor can detect through most nonmetallic blocking obstacles, therefore the movement is detected before coming into the area covered with motion sensitivity and the lighting response has no delay. Its average coverage area has a controllable range of around 5 to 50 feet diameter when mounted at a height of 8-10 feet. (**refer: Fig. 3, 4**)

- **Delay Timer:**

The light can be set to functionally stay ON for any period of time between approx 8 sec. to maximum of 12 min. by turning the Timer knob to adjust. Any movement detected during this time elapse will re-set the timer. It is recommended to select the shortest time for adjusting the Sensitivity detection performance via the walk test, after this testing it is recommended to turn back to maximum position. (**refer: Fig. 3**)

- **Ambient Light Level:**

Use this LUX knob to adjust when the illumination is started depending on the specific conditions and level of environmental darkness at night or daylight level and the occupancy area as desired. (**refer: Fig. 3**)

- **Auto Dimming Down as Power SMART Saving & Safety Mode:**

By setting the DIM knob to MAX position (far Right position), then this light can automatically dim down its illumination brightness level to 10-30% of maximum level after the expired delay period when no movement is detected, then it will run up to the maximum illumination level when any movement is detected in the coverage area.

- **Motion Activated as Energy Saving or Security Mode:**

By setting the DIM knob to MIN position (far Left position), then this light can automatically shut OFF after expired delay period when no movement is detected, then it will light-up with MAX brightness illumination when any movement is detected in the coverage area.
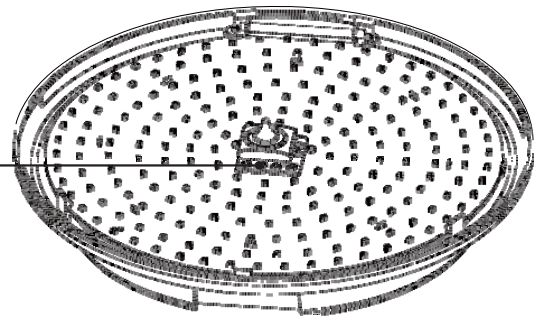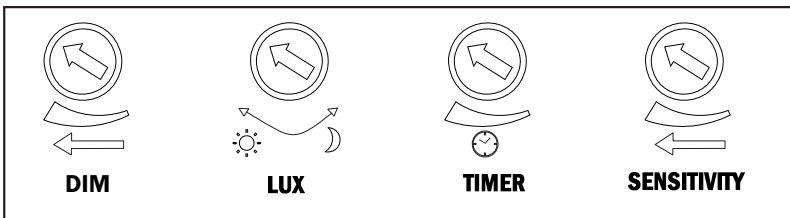

DIM   LUX   TIMER   SENSITIVITY

Fig. 3

User Tips and Warning!

- **Shut off the main AC power before starting installation.**
- Keep it away from the children during the installation.
- Avoid installing where the temperature or humidity is high.
- Avoid placing objects in front of the motion detector that may affect illuminating performance.
- Avoid installing the unit near air conditioners, central heaters, or outdoor area without water/weatherproof protection.
- As with a typical DIY or replacement light project for custom-made considerations visit your local hardware store or consult experienced electric technician for assistance on your specific mounting accessories and installation needs. User and Installer have to consider application site's environmental condition and specific lighting purpose to decide best mounting and installation arrangement.
- All installation procedures must follow their local safety standards and building, electric regulations.
- **The manufacturer and seller does not undertake any responsibility for any losses caused by improper operation and installation.**

Specifications

AC Power source: 100-240V/AC 50/60Hz
180 SMD-LED Load: 18W (100W lamp)
LED specifications: FM-2835WNS
LED Color: Warm white (3000K)
Lamp Brightness: 1250Lm (white); 1000Lm (warm)
Protection: IP43, Class2
Light Fixture Material: PC

Doppler sensor FREQ.: 5.8GHz
RF Sensing Power: <0.3mW
Detection range: 3-53feet/1-16m x 360° Diameter@6-10feeet High
Delay Time Range Setting: 8sec to 12min
Ambient Light Level Setting: 10-2000lux (Dusk to Dawn illumination)
Operating Temperature: -4F to +125F
Light Unit Size: 12"/310mm (D) x 6-½"/165mm (H)
Weight: 1.5Lbs
Approvals: FCC, CE

Important Safety Information

Do not dispose of battery in fire. This may result in an explosion.
Do not expose the light to fire or intense heat as the battery may explode.
Do not immerse in water.
Never look directly into the light or shine it into another person's eyes.
Follow proper safety tips to prevent from falling off a ladder.
Consult your local construction safety guide if needed for installing the light fixture on a building.

Mounting High   Range: 3'-53'   Coverage: 360

Fig. 4

One Year Limited Warranty

EESGI guarantees this product to be free from defects in material & workmanship for (1) year.
This warranty does not apply to damage from misuse or incorrect installation/ connection.
This warranty does not cover accessories, bulbs, batteries, high voltage accidents, alterations, unauthorized use or repair, neglect, misuse, abuse, damages or defects resulting from normal wear and tear (including chips, fading scratches, abrasions or discoloration due to usage or sun exposure), or failure to follow instructions for care and maintenance, fire, flood, and Acts of God. This warranty does not include liability for incidental or consequential damages.
EESGI is not responsible for any damages in excess of the retail purchase price of the product under any circumstances. The consumer is responsible for the installation of, removal of, and reinstallation of the product.
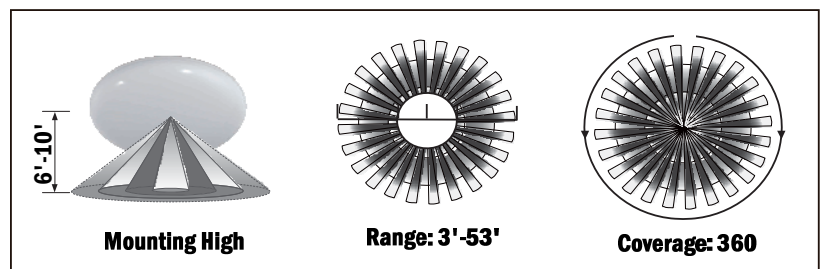**Customer service**: (877)579-3889, www.eesgi.com