

# User Manual

## IP54

### Installation Instruction

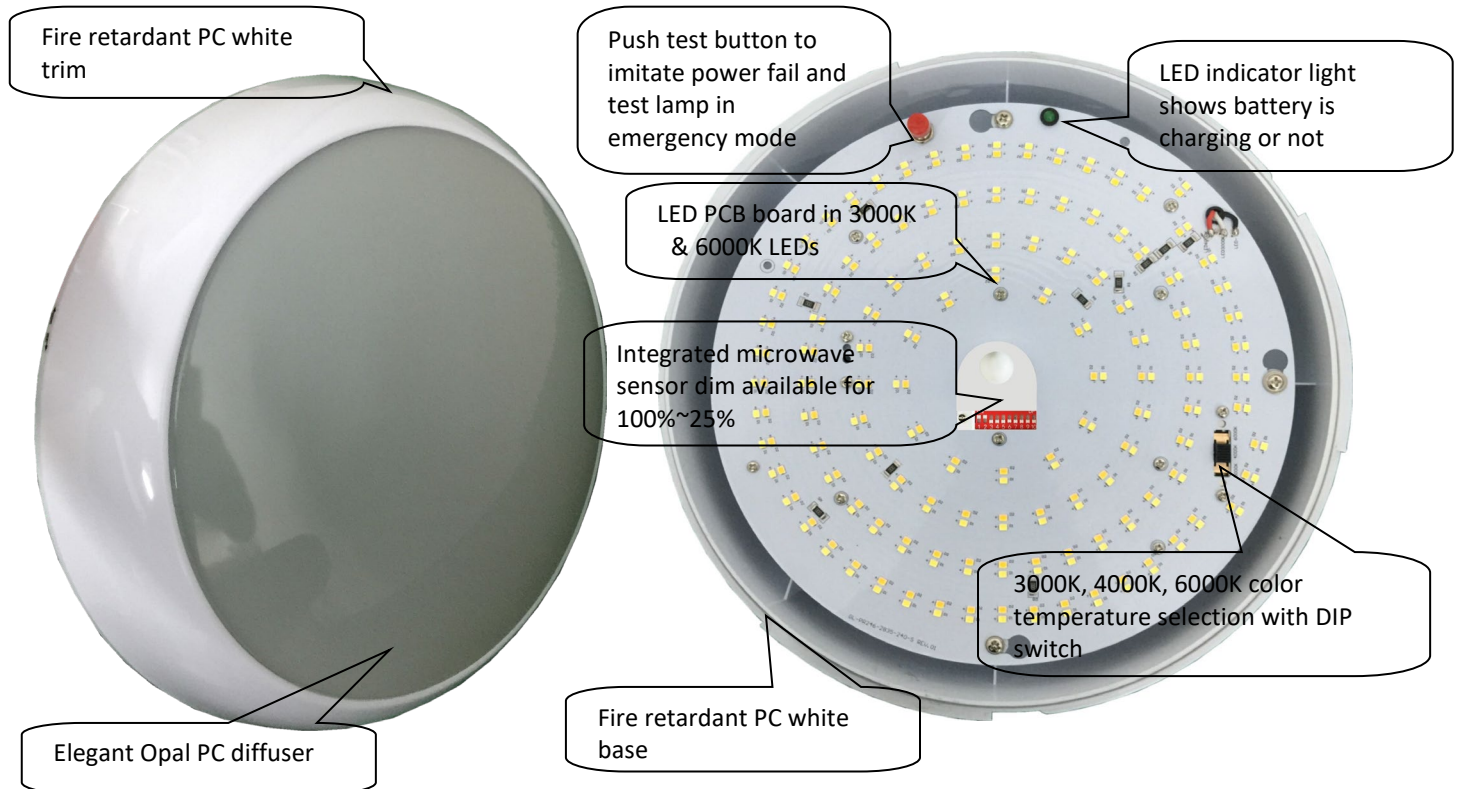
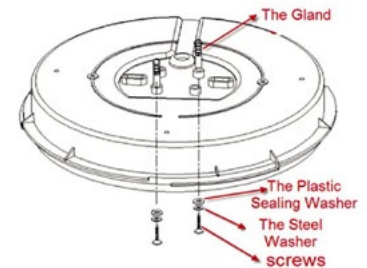
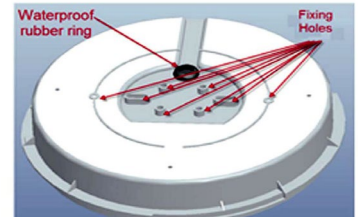
These instructions should be read in full and retained after installation for future reference.

#### Safety

- It is recommended that this luminaire is installed by a qualified electrician and installed to the current edition of the IEE wiring regulations.
- Before installation or maintenance is carried out, ensure that the main supply is isolated.

#### Fixing Instructions

- Twist and remove the diffuser from the base and lift away.
- Unscrew the 3 fixing screws to remove the LED gear tray and gain access to the terminal block. A safety chain is provided to prevent the gear tray from falling during installation.
- Drill 4 of eight fixing holes on the back of the base. Then measure the position of the luminaire and ensure the fitting surface can bear the weight of the luminaire. Drill the marked holes and fit a suitable wall/ surface plug (supplied).
- Then mark the position of the luminaire to the fitting surface.
- 
- Feed the power supply cable through the cable entry and gland, then fix the luminaire to the wall through the 4 screws.



# User Manual

## IP54

### Wiring Instruction

Connect the cable to the terminal block as follows:

(1). Electrical connections to the terminal block (see Fig. 1)

for The Standard and Sensor version:

**LIVE** (Red or Brown) to the terminal marked **L**

**NEUTRAL** (Black or Blue) to the terminal marked **N**

**EARTH** (Green/Yellow) to the terminal marked 

Fig. 1

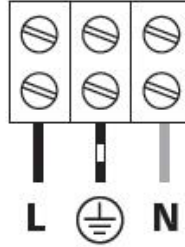
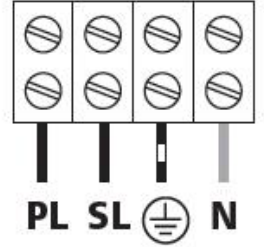


Fig. 2



(2). Electrical connections to the terminal block (see Fig. 2)  
for The emergency versions

**PERMANENT LIVE** (Red or Brown) to the terminal marked **PL**

**SWITCH LIVE** (Red or Brown) to the terminal marked **SL**

**NEUTRAL** (Black or Blue) to the terminal marked **N**

**EARTH** (Green/Yellow) to the terminal marked 

- Ensure that there are no exposed conductors, loose or trapped cable strands, and re-fit the gear tray.
- Refit the diffuser by twisting and locking in place, the luminaire is now ready for use – see over for the sensor instructions if sensor is fitted and emergency only instructions above

|                           |                                  |
|---------------------------|----------------------------------|
| Input voltage ( 50/60Hz)  | AC 220~240V                      |
| Power consumption         | 15W                              |
| PF                        | >0.9                             |
| LED Driver output voltage | DC 36V                           |
| LED Driver output current | 330mA Max                        |
| Light source              | 2835 SMD LED 240 PCS             |
| Color Temperature (CCT)   | 3000K 4000K 5000K 6000K optional |
| CRI                       | >80                              |
| Luminous Flux             | 1150~1300Lm                      |
| Luminous efficacy         | 85Lm /W                          |
| View angle                | 120°                             |
| Housing material          | Polycarbonate                    |
| IP Rating                 | IP54                             |
| Life Span                 | Up to 40,000 hours               |
| Operation temperature     | -10degC to 40degC                |
| Dimension                 | Ø325 x 100mm                     |
| Box Package               | 330 x 330 x 110mm (1 PCS)        |
| Carton package            | 550 x 340 x 350mm 5 PCS/Carton   |
| Net Weight                | 1.2KG/PCS(approx)                |

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| Emergency               | Maintained                                                                                               |
| Battery                 | 9.6V re-changeable                                                                                       |
| Emergency output        | 350lm                                                                                                    |
| Emergency duration      | >3 Hours                                                                                                 |
| Charge time             | <12Hours                                                                                                 |
| LED indication          | Red – charging<br>Green – full charged<br>Yellow – battery faulty                                        |
| Test button             | AC power on: Push and hold the button to enter emergency mode; release button to come back AC power mode |
| Microwave Sensor        |                                                                                                          |
| Sensor range            | 180 degree; 0.5 - 8M (adjustable)                                                                        |
| Sensing interval        | 10s to 5min max (adjustable)                                                                             |
| Sensing interval output | 0% or 25%                                                                                                |

#### Emergency Function Test Button

After installation with the mains supply powered on, push the test button to test emergency function, if the LED brightness is reduced to emergency brightness (20% of full brightness), the function is working

# Microwave sensor instruction



On/off control



Stand-by period



Detection area



Stand-by dimming level



Hold-time



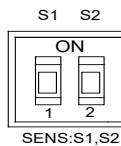
Daylight sensor

## Technical data

|                        |                          |
|------------------------|--------------------------|
| Operating voltage      | 12VDC                    |
| Operating current      | 1A (Max)                 |
| Output                 | 1-10V                    |
| Standby power          | < 0.5W                   |
| Detection area         | 50%/100%                 |
| Hold-time              | 5s/30s/1min/10min        |
| Daylight threshold     | 2Lux/10Lux/50Lux/Disable |
| Stand-by period        | 0s/30s/20min / +∞        |
| Stand-by dimming level | 10%/20%/30%/50%          |
| Microwave frequency    | 5.8GHz ± 75MHz           |
| Microwave power        | < 0.3mW                  |
| Mounting height        | Max.4m(ceiling mounted)  |
| Detection range        | Max.12m(ceiling mounted) |
| Operating temperature  | -20°C ~ + 60°C           |
| IP rating              | IP20                     |

## Reach setting (sensitivity)

Reach is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, switch to the on is "1", switch to the off is "0";The corresponding file of switch location and detection distance as follow:

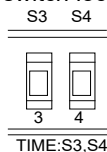


| S1 | S2 | distance | S1 | S2 | distance |
|----|----|----------|----|----|----------|
| 0  | 0  | 3m       | 1  | 0  | 8m       |
| 0  | 1  | 5m       | 1  | 1  | 10m      |

## Time setting

Time can be set 10s to 30min.Any movement will re-start the timer. It is recommended to select

the shortest time for adjusting the detection zone and for performing the walk test. Switch to the on is "1", switch to the off is "0"; the corresponding file of switch location and detection distance as follow:

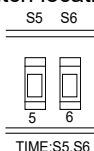


| S3 | S4 | Time | S3 | S4 | Time  |
|----|----|------|----|----|-------|
| 0  | 0  | 10S  | 1  | 0  | 5Min  |
| 0  | 1  | 1Min | 1  | 1  | 10Min |

detected before this time elapse

## Light-control setting

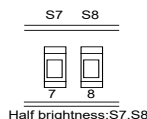
The chosen light response threshold can be infinitely from approx. Day-50lux. Switch to the on is "1", switch to the off is "0"; he corresponding file of switch location and detection distance as follow:



| S5 | S6 | Lux   | S5 | S6 | Lux   |
|----|----|-------|----|----|-------|
| 0  | 0  | Day   | 1  | 0  | 30Lux |
| 0  | 1  | 10Lux | 1  | 1  | 50Lux |

## Half brightness setting

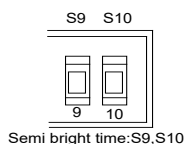
The half brightness can be set 10%~30% or 0%. Switch to the on is "1", switch to the off is "0"; he corresponding file of switch location and detection distance as follow:



| S7 | S8 | Half brightness | S7 | S8 | Half brightness |
|----|----|-----------------|----|----|-----------------|
| 0  | 0  | 0%              | 1  | 0  | 20%             |
| 0  | 1  | 10%             | 1  | 1  | 30%             |

## Semi bright time setting

The Semi bright time can be set 1Min~24H.Switch to the on is "1", switch to the off is "0"; he corresponding file of switch location and detection distance as follow:



| S9 | S10 | Semi brightness time | S9 | S10 | Semi brightness time |
|----|-----|----------------------|----|-----|----------------------|
| 0  | 0   | 24H                  | 1  | 0   | 30Min                |
| 0  | 1   | 1Min                 | 1  | 1   | 60Min                |