LED SOLUTION 191050 LED Light 15w with Motion Sensor and Battery Backup Instruction Manual

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INTRODUCTION

The fixture is fully automatic, switched on by a motion sensor, equipped with a backup power module, allowing continuous lighting in case of a power outage. The fixture is equipped with an LED source, enabling energy-efficient operation.

Specification

Voltage	110 – 240 V / AC	Detection angle	Ceiling 360° Wall 120°
Operating frequency	50 / 60 Hz	Detection distance	Ceiling max 6m Wall max. 9m
Light sensitivity setting	<3-2000 LUX (adjustable)	Operating temperature	-20 ~ + 40 °C
Lighting time	Min. 10 s ± 3 s Max. 5min ± 1min	Operating humidity	< 93% RH
Power	15 W	Installation height	Ceiling Max. 2,2 – 4m Wall max. 1,8 – 2,5m
Luminous flux	1400 lm	Battery	3,7 V / 1500 mAh Li-ion
Backup light power	1,2 W	Detectable speed	0,6 – 1,5 m/s
Luminous flux of the back up light	65 lm	Backup period	Up to 5 hours (if fully charged)
Power factor	>0,5	Dimensions	**Diameter** – 250mm **Height –** 53mm
IP rating	IP44		

Function

This light fixture is equipped with a backup power source. In the event of a power outage, the backup light will be illuminated from the battery. It provides uninterrupted lighting for up to 5 hours. The light can be switched on during both day and night. The user can set the desired light level for activation. The light will turn on when motion is detected during the day if the “SUN” (max) position is set. Conversely, it is possible for the light to turn on only in complete darkness – at a light level of 3 LUX, if the “MOON” (min) position is set.

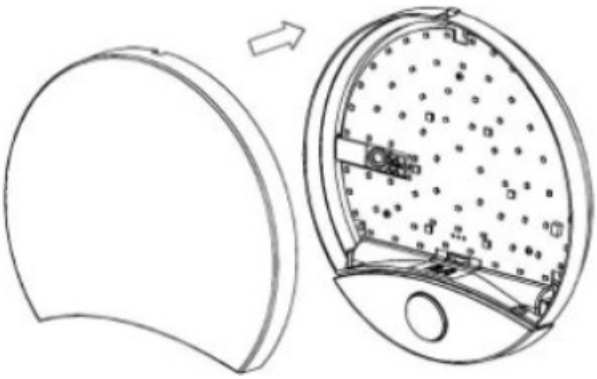
The lighting duration can be set using the second controller: If the set duration elapses and no further motion is detected by the sensor, the light will turn off. It will turn on again with new motion.
Setting the lighting duration: The user can adjust the duration of lighting activation. The minimum duration is 10 seconds ± 3 seconds, and the maximum duration is 5 minutes ± 1 min.

Installation

1. Turn off the power supply.
2. Unscrew the plastic ring around the sensor and remove the diffuser **(pic. 1, 1a)**

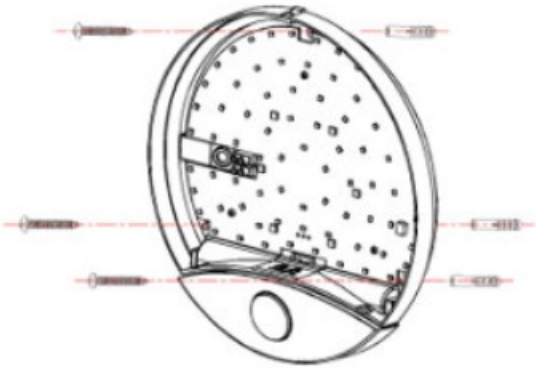
Pic. 1

Pic. 1a



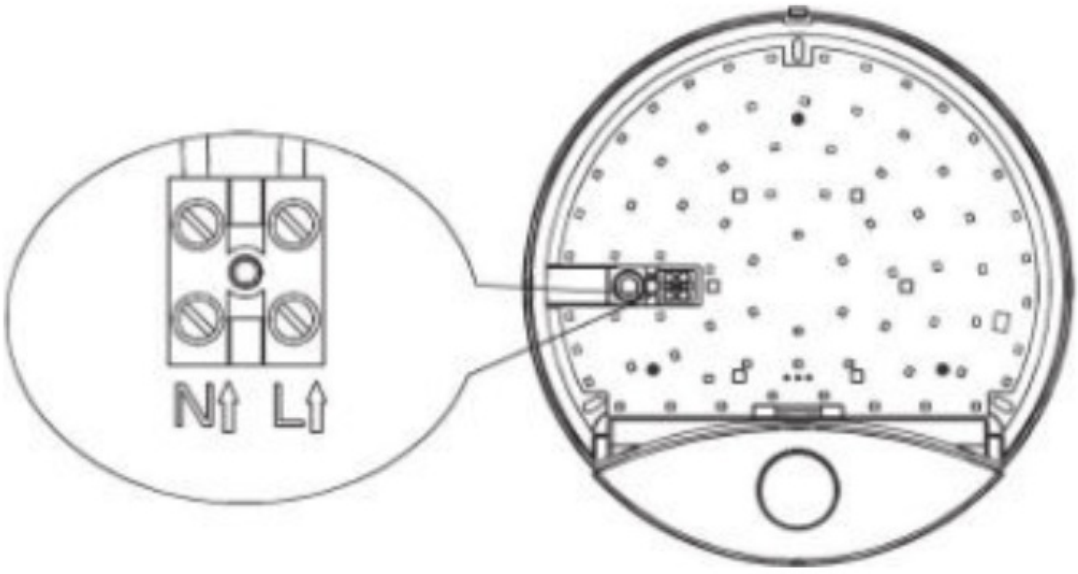
3. Thread the supply wire through the conduit in the luminaire. Then screw the luminaire using three screws into the pre-drilled holes equipped with wall plugs **(pic. 2).**

Pic. 2



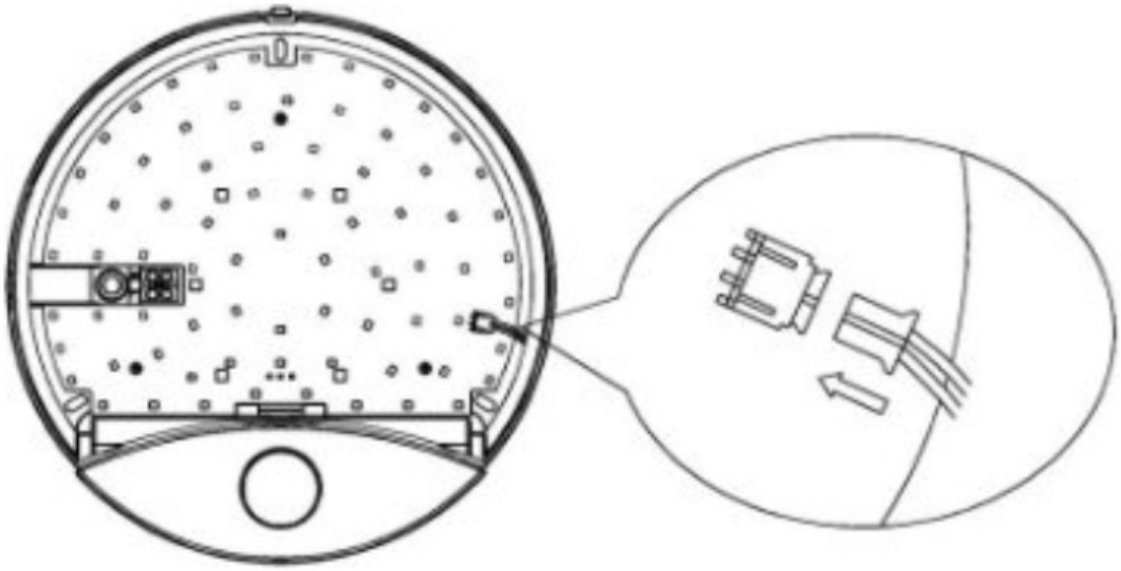
Perform the wiring according to the wiring diagram **(pic. 3).**

Pic. 3



4. Connect the wires from the battery to the connector **(pic. 4).**

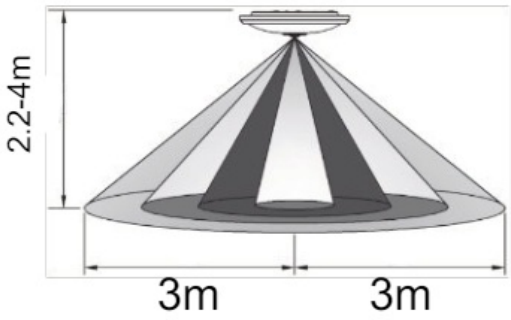
Pic. 4

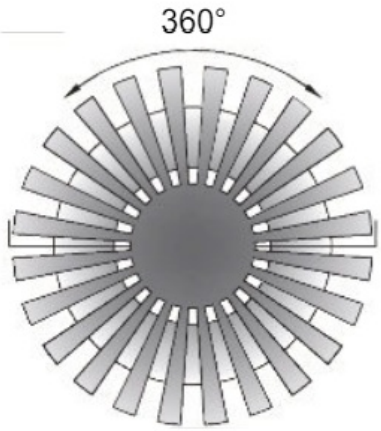


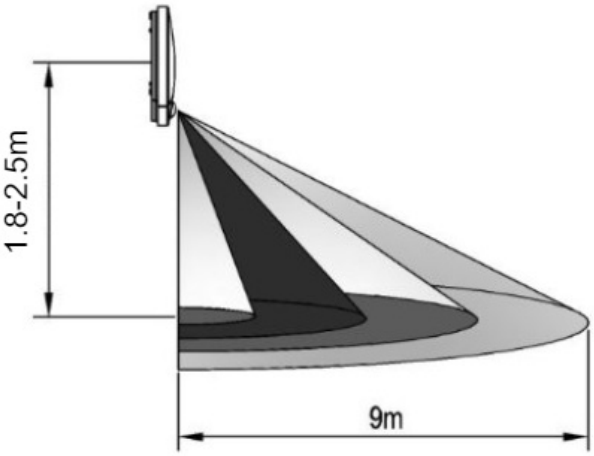
5. Attach the diffuser and screw on the plastic ring.
6. You can now turn on the power supply.

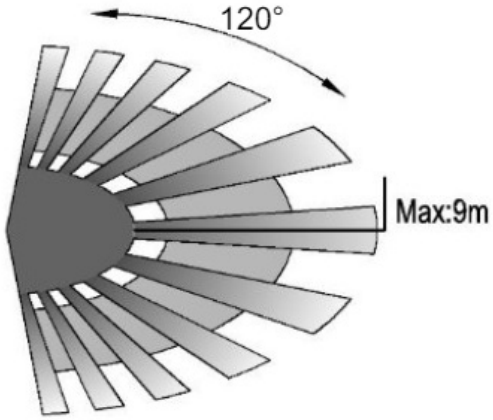
PIR

Dimensions

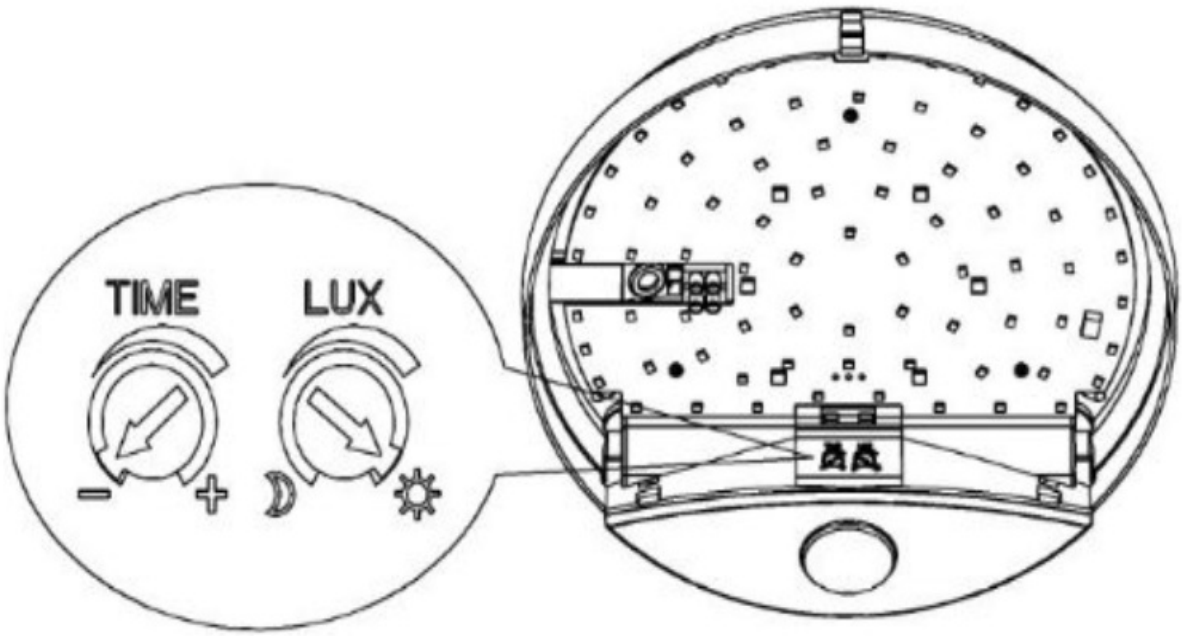








Test



1. Turn the TIME knob to the minimum (–) position. Turn the LUX knob to the maximum (SUN) position.
2. Turn on the power supply. The light will not function immediately, it will respond to motion only after approximately 30 seconds of warming up. When the motion sensor detects movement, the light will turn on. Once the motion stops, the light will turn off after the set time.
3. Turn the LUX knob to the minimum (MOON) position. If the ambient light level is higher than 3 LUX, the light will

not turn on. If the ambient light drops to 3 LUX (DARK), the sensor will activate and the light will illuminate. If there is no motion within the sensor range, the light will turn off after the set time.

4. In the event of a power outage, the emergency module will activate automatically, and the light will continuously illuminate in emergency mode for up to 5 hours.

Note

If you perform the test during the day, set the controller to the “SUN” position; otherwise, the light fixture will not function. Installation should only be carried out by a person with electrical qualifications. Obstacles within the sensor’s detection range can negatively affect detection functions. Do not install the light fixture near sources of heat or airflow, such as heaters, air conditioners, etc.

Troubleshooting

1. **The light is not turning on:**
   - **a.** Check if the light is properly connected.
   - **b.** Verify if the power supply is functional.
   - **c.** Ensure that the LUX control is correctly set.
2. **The PIR sensor sensitivity is poor:**
   - **a.** Check if there are any obstacles in the sensor’s detection field.
   - **b.** Verify if the ambient air temperature is not too high.
   - **c.** Make sure you are moving within the PIR sensor’s detection field.
3. **The sensor does not automatically turn off:**
   - **a.** Check if there is continuous motion in the detection field.
   - **b.** Verify if the TIME control is not set to a too long duration.

Producer

IP44

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RoHS

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PAP

Documents / Resources

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References

- User Manual