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Sensky GKG0372W00000US

Sensky 360 Degree Ceiling Mount PIR Motion Sensor Switch User Manual

Model: GKG0372W00000US

1. INTRODUCTION

The Sensky 360 Degree Ceiling Mount PIR Motion Sensor Switch is designed to automatically control lighting based on human movement. It is suitable for various indoor applications such as circulation areas, storerooms, toilets, kitchens, stairwells, and corridors, helping to conserve energy by ensuring lights are only on when needed.



Image 1.1: Sensky 360 Degree PIR Motion Sensor Switch with icons indicating 360-degree detection, adjustable ambient light, adjustable time delay, and easy mounting.

2. PRODUCT FEATURES

- **360-Degree Detection:** Provides comprehensive coverage for motion sensing.
- **Adjustable Light Sensor (LUX):** Allows the sensor to operate only when ambient light is below a set threshold (3-2000 Lux). This enables operation during both day and night or only at night.
- **Adjustable Time-Delay:** Configurable delay from 10 seconds ($\pm 3s$) to 7 minutes ($\pm 2min$) for how long the light remains on after motion is no longer detected. The time delay resets with continuous detection.
- **Wide Voltage Compatibility:** Operates on 110-240V/AC power input.
- **Energy Saving:** Automatically turns lights on and off based on movement, reducing unnecessary power consumption.
- **High Sensitivity:** Detects motion effectively within its specified range.

360° PIR Motion Sensor

Automatically turns lights on and off



Image 2.1: The Sensky 360 Degree Ceiling Mounted Occupancy Sensor shown with examples of its use in a hallway, bathroom, and closet, highlighting its ability to turn lights on/off by movement.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Sensky Motion Detector Switch
- 2 x Mounting Screws
- 1 x User Manual (this document)

4. SPECIFICATIONS

Parameter	Value
Power Input	110-240V/AC
Power Frequency	50Hz/60Hz
Working Humidity	<93%RH
Working Temperature	-20°C to +40°C
Installation Height	2.2-4 meters
Ambient Light (Adjustable)	3-2000 Lux
Time-Delay (Adjustable)	Min: 10s ±3s; Max: 7min ±2min
Power Consumption (Working)	0.45W
Power Consumption (Static)	0.1W
Rated Load (110V)	Max. 800W (incandescent); Max. 200W (energy-saving lamp)
Rated Load (220V)	Max. 1200W (incandescent); Max. 300W (energy-saving lamp)
Motion Detecting Speed	0.6 ~ 1.5 m/s
Detection Distance	6 meters max (<24°C)
Product Dimensions	115mm (D) × 50mm (H) / 4.53"D x 1.97"H
Mounting Type	Ceiling Mount

5. SAFETY INFORMATION

WARNING: Installation should only be performed by a qualified electrician or trained personnel. Incorrect installation can lead to electric shock, fire, or damage to the device.

- Always disconnect power at the circuit breaker before installing or servicing the sensor.
- Ensure wiring connections are secure and comply with local electrical codes.
- Do not exceed the maximum rated load for the sensor.
- This device is designed for indoor use only. Install in a location protected from direct sunlight and moisture.
- A neutral wire is required for operation.

6. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Power Disconnection:** Turn off the main power supply at the circuit breaker before beginning any electrical work.
2. **Mounting Location:** Choose a ceiling location where the sensor can have an unobstructed view of the detection area. The recommended installation height is between 2.2 and 4 meters. Avoid installing near heat sources, air conditioning vents, or areas with significant air movement, as these can cause false triggers.
3. **Mounting the Base:** Secure the sensor's base plate to the ceiling using the provided screws. Ensure it is firmly attached.
4. **Wiring Connections:** Connect the wires according to the diagram below. This sensor requires a Live (L),

Neutral (N), and Load (OUT) connection.

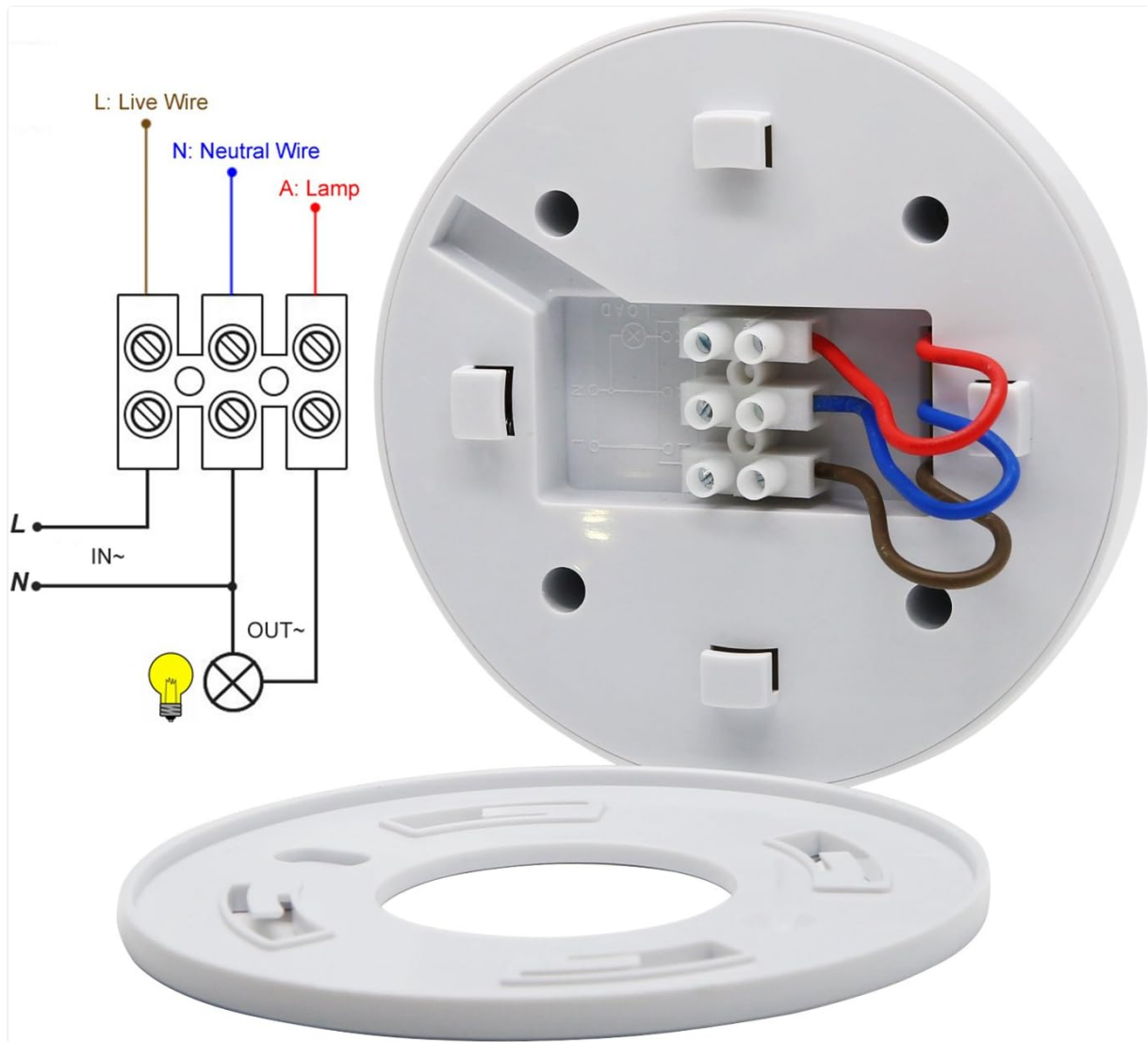


Image 6.1: Detailed wiring diagram for the motion sensor. Connect the Live wire to 'L', Neutral wire to 'N', and the lamp's Live wire to 'OUT'. The lamp's Neutral wire connects to the main Neutral line.

- Connect the incoming **Live (L)** wire to the terminal marked 'L'.
- Connect the incoming **Neutral (N)** wire to the terminal marked 'N'.
- Connect the **Load (OUT)** wire (to your light fixture) to the terminal marked 'OUT'.
- Ensure all connections are tight and insulated.



Image 6.2: View of the sensor's internal wiring terminals, showing the brown (Live), blue (Neutral), and red (Load) wires connected.

5. **Attach Sensor Body:** Once wiring is complete, carefully attach the main body of the sensor to the mounted base, twisting or clicking it into place until secure.
6. **Restore Power:** Turn the main power supply back on at the circuit breaker.

7. OPERATING AND ADJUSTMENTS

The sensor features two adjustable dials for customization:



Image 7.1: Side view of the Sensky motion sensor, clearly showing the 'TIME' and 'LUX' adjustment dials.

7.1. LUX Adjustment (Ambient Light)

The 'LUX' dial controls the ambient light threshold at which the sensor will activate. This determines whether the sensor operates during the day, night, or both.

- **'Sun' Position (Max LUX):** The sensor will operate regardless of ambient light levels, meaning it will detect motion and turn on lights both during the day and at night.
- **'Moon' Position (Min LUX):** The sensor will only activate when the ambient light is below approximately 3 Lux (i.e., in dark conditions). This setting is ideal for night-time operation only.

7.2. TIME Adjustment (Time-Delay)

The 'TIME' dial sets how long the connected light remains on after motion is no longer detected. The time delay is continuously added; if the sensor detects motion again before the current delay expires, the timer will restart.

- **Minimum Setting:** Approximately 10 seconds ($\pm 3s$).

- **Maximum Setting:** Approximately 7 minutes (± 2 min).

Adjust these dials using a small screwdriver. Test the settings in your desired environment to ensure optimal performance.

8. MAINTENANCE

The Sensky motion sensor requires minimal maintenance. To ensure continued optimal performance:

- **Cleaning:** Periodically wipe the sensor lens with a soft, dry cloth to remove dust or debris that might obstruct detection. Do not use abrasive cleaners or solvents.
- **Inspection:** Occasionally check the sensor for any visible damage or loose connections. If any issues are found, disconnect power and address them safely.
- **Environment:** Ensure the installation area remains free from significant temperature fluctuations or strong air currents that could cause false triggers.

9. TROUBLESHOOTING

If you encounter issues with your Sensky motion sensor, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	<ol style="list-style-type: none"> 1. Power is off. 2. Incorrect wiring. 3. LUX setting is too high (e.g., set to 'Moon' during daytime). 4. Motion is outside detection range. 5. Faulty bulb or light fixture. 	<ol style="list-style-type: none"> 1. Check circuit breaker. 2. Verify wiring against diagram (Section 6). 3. Adjust LUX dial towards 'Sun' or test in darker conditions. 4. Ensure motion occurs within 6m range and sensor has clear view. 5. Test light fixture with a known working switch.
Light stays on constantly.	<ol style="list-style-type: none"> 1. Continuous motion in detection area. 2. Time-delay setting is too long. 3. Sensor is faulty. 	<ol style="list-style-type: none"> 1. Clear detection area of any constant movement. 2. Adjust TIME dial to a shorter duration. 3. If problem persists after checking other causes, contact support.
Light turns on without apparent motion (false triggers).	<ol style="list-style-type: none"> 1. Heat sources or air currents in detection area. 2. Sensor lens is dirty. 3. High sensitivity to environmental factors. 	<ol style="list-style-type: none"> 1. Relocate sensor away from heat vents, windows, or large appliances. Ensure no pets or objects are moving. 2. Clean the sensor lens with a soft cloth. 3. Consider adjusting the installation height or angle if possible to reduce unwanted detection.
Detection range is poor.	<ol style="list-style-type: none"> 1. Obstructions blocking sensor's view. 2. Installation height is too low or too high. 3. Ambient temperature is too high (reduces PIR effectiveness). 	<ol style="list-style-type: none"> 1. Remove any objects blocking the sensor's field of view. 2. Ensure installation height is within 2.2-4m range. 3. Note that PIR sensors are less effective in environments where ambient temperature is close to body temperature.

10. WARRANTY AND SUPPORT

Sensky provides 12 months of customer service for this product. If you encounter any issues or have questions regarding the installation, operation, or performance of your motion sensor, please do not hesitate to contact Sensky customer support.

Please refer to the contact information provided with your purchase or visit the official Sensky website for support details.