



Manuals.plus /

› Sensky /

› Sensky SK036 360 Degree Ceiling Occupancy PIR Motion Sensor Switch Instruction Manual

Sensky SK036

Sensky SK036 360 Degree Ceiling Occupancy PIR Motion Sensor Switch

Instruction Manual

1. PRODUCT OVERVIEW

The Sensky SK036 is a 360-degree ceiling-mounted Passive Infrared (PIR) motion sensor switch designed to automatically control lighting based on occupancy. It features three detectors for comprehensive coverage, adjustable settings for ambient light, time delay, and detection range, making it suitable for various indoor applications.

This sensor is compatible with a wide range of lighting types, including LED, compact fluorescent, incandescent lamps, and ceiling lights, as well as exhaust fans. It operates within a voltage range of 110V/AC-240V/AC.



Image 1.1: Sensky SK036 Ceiling Occupancy Sensor highlighting 360-degree detection, adjustable sensitivity, 3 detectors, adjustable time delay, ambient light sensor, and easy mounting.

2. KEY FEATURES

- **360-Degree Detection:** Provides full room coverage with three integrated detectors.
- **Adjustable Light Sensor (LUX):** Allows operation during both day and night (3-2000 Lux) or only at night (ambient light less than 3 Lux).
- **Adjustable Time Delay (TIME):** Controls how long the connected load remains on after motion detection, ranging from 10 seconds to 7 minutes. Motion detected during the delay resets the timer.
- **Adjustable Detection Range (SENS):** Customize the detection distance from 3 to 12 meters to suit room size.
- **PIR Motion Sensing:** Activates based on human movement (heat source).
- **Wide Compatibility:** Works with various lighting types and exhaust fans.

3. INSTALLATION INSTRUCTIONS

Safety First: Before beginning installation, ensure the power supply to the circuit is turned off at the circuit breaker to prevent electrical shock.

1. **Choose Mounting Location:** Select a ceiling location within the recommended installing height of 2.2m to 4m. Ensure the sensor has an unobstructed view of the area to be monitored.
2. **Prepare Wiring:** Identify the Live (L), Neutral (N), and Load wires from your electrical circuit.
3. **Mount the Base:** Secure the sensor's mounting base to the ceiling using the provided screws.
4. **Connect Wiring:** Connect the Live (L) wire to the 'L' terminal, the Neutral (N) wire to the 'N' terminal, and the Load wire (to your light fixture or fan) to the 'LOAD' terminal on the sensor. The output wire from the sensor to the load is typically red, the neutral is blue, and the live input is brown. Ensure all connections are secure.
5. **Attach Sensor Body:** Once wiring is complete, attach the main body of the sensor to the mounted base, twisting it into place until secure.
6. **Restore Power:** Turn the power back on at the circuit breaker.

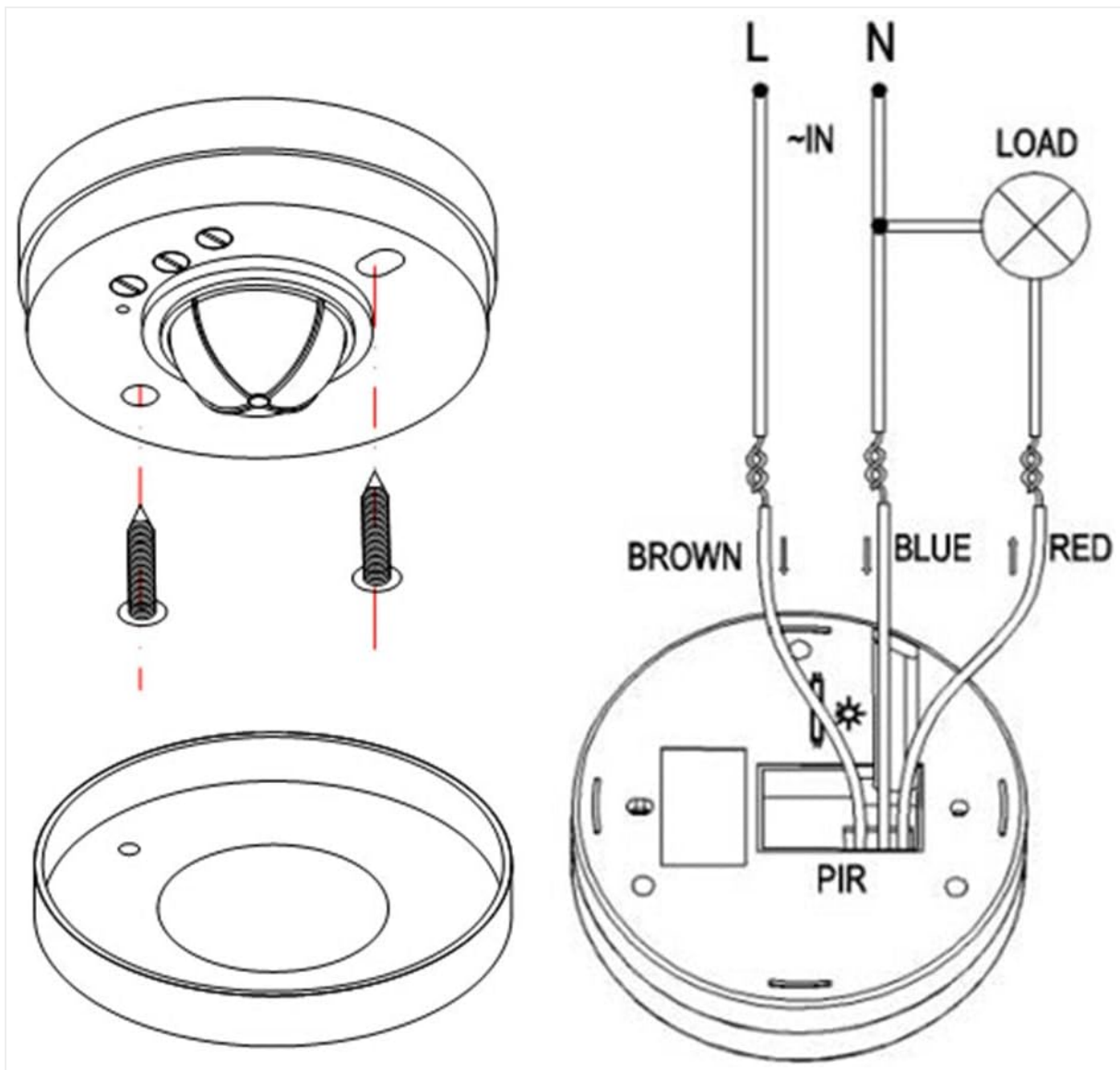


Image 3.1: Wiring diagram showing connections for Live (L), Neutral (N), and Load to the sensor, along with mounting screws.

4. OPERATING INSTRUCTIONS AND ADJUSTMENTS

The sensor has three adjustable knobs: LUX, TIME, and SENS. These allow you to customize the sensor's behavior to your specific needs.

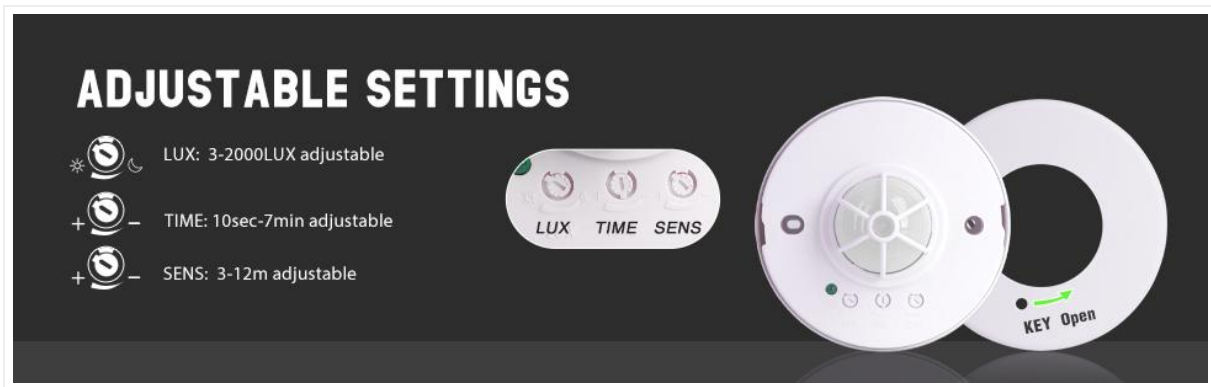


Image 4.1: Illustration of the adjustable settings (LUX, TIME, SENS) on the sensor.

4.1. LUX (Ambient Light) Adjustment

This knob controls the ambient light level at which the sensor will activate. Rotate the knob to adjust:

- **To work both day and night:** Adjust the LUX knob to the 'sun' position (maximum setting, ~2000 Lux). The sensor will detect motion and turn on the light regardless of ambient light.
- **To work only at night:** Adjust the LUX knob to the 'moon' position (minimum setting, ~3 Lux). The sensor will only activate the light when motion is detected and the ambient light is below the set threshold.

4.2. TIME (Time Delay) Adjustment

This knob sets the duration the light remains on after motion is no longer detected. The range is from 10 seconds (min) to 7 minutes (max). If motion is detected again during the delay period, the timer will reset and start a new delay cycle.

4.3. SENS (Detection Range) Adjustment

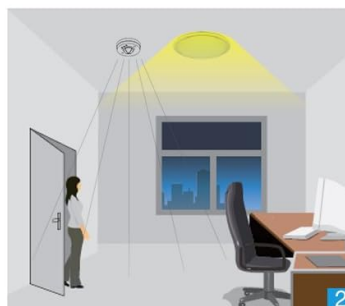
This knob adjusts the sensitivity of the motion sensor, effectively controlling the detection distance from 3 meters (min) to 12 meters (max). Adjust as needed for the size of the room or area.

1 ON OFF Function

This sensor is a motion switch, which turns on the light on detection of people movement, and turns off after a pre-selected holdtime when there is no people around. A daylight sensor is also built-in to switch off the light when there is sufficient natural light.



With sufficient natural light, the light does not switch on, even when movement is detected.



With insufficient natural light, the sensor switches ON the light automatically when people enter into the detection range.



With insufficient natural light, the sensor switches OFF the light automatically when no more movement is detected.

Image 4.2: Operational diagram showing how the sensor functions: 1) Light off with sufficient natural light and motion, 2) Light on with insufficient natural light and motion, 3) Light off after hold time with insufficient natural light and no motion.



Image 4.3: Visual representation of the passive PIR motion sensor automatically turning lights on when a person enters the detection zone.

5. MAINTENANCE

The Sensky SK036 motion sensor switch requires minimal maintenance. To ensure 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.
- **Obstruction Check:** Ensure there are no new obstructions (e.g., furniture, decorations) blocking the sensor's field of view.
- **Power Cycle:** If the sensor behaves unexpectedly, try turning off the power at the circuit breaker for a few minutes, then restoring it. This can sometimes resolve minor electronic glitches.

6. TROUBLESHOOTING

If you encounter issues with your Sensky SK036 sensor, refer to the following troubleshooting tips:

- **Light does not turn on with motion:**
 - Check power supply to the sensor.
 - Verify wiring connections are secure and correct.
 - Adjust the SENS (sensitivity) knob to a higher setting.
 - Adjust the LUX (ambient light) knob towards the 'sun' position to ensure it operates in current light conditions.
 - Ensure there are no obstructions blocking the sensor's view.
 - Test the connected light bulb/fixture to ensure it is functional.
- **Light stays on continuously:**
 - Ensure there is no continuous motion within the detection range.
 - Adjust the SENS (sensitivity) knob to a lower setting to reduce false triggers.

- Adjust the TIME (time delay) knob to a shorter duration.
- Check for heat sources (e.g., HVAC vents, direct sunlight) that might be causing false detections.
- **Light turns on/off erratically:**
 - Check for intermittent power supply issues.
 - Ensure the sensor is securely mounted and not vibrating.
 - Re-adjust SENS and LUX settings to fine-tune detection.

7. SPECIFICATIONS

| Specification | Value |
|------------------------|--|
| Power Sourcing | 110V/AC-240V/AC |
| Power Frequency | 50Hz/60Hz |
| Detection Range | 360 degrees |
| Detection Distance | 3-12m (Adjustable) |
| Ambient Light | 3-2000Lux (Adjustable) |
| Time-Delay | Min: 10sec±3sec, Max: 7min±2min (Adjustable) |
| Installing Height | 2.2m~4m |
| Load Current | 5A |
| Detection Motion Speed | 0.6~1.5m/s |
| Power Consumption | 0.45W (work); 0.1W (static) |
| Item Model Number | SK036 |
| Product Dimensions | 5.31"D x 4.96"W x 2.68"H |
| Item Weight | 6.9 ounces |



Image 7.1: Lighting compatibility details for various load types.



Image 7.2: Common applications for the Sensky SK036 motion sensor.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact Sensky customer service directly. Contact details can typically be found on the product packaging or the manufacturer's official website.