

Ultranik
UM01 Motion
Sensor Detector



Ultranik UM01 Motion Sensor Detector User Manual

[Home](#) » [Ultranik](#) » Ultranik UM01 Motion Sensor Detector User Manual 

Contents

- [1 Ultranik UM01 Motion Sensor Detector](#)
- [2 Specifications](#)
- [3 Installation](#)
- [4 Wiring](#)
- [5 Settings Adjustment](#)
- [6 Usage](#)
- [7 Product Feature](#)
- [8 Assembly](#)
- [9 Settings](#)
- [10 FCC STATEMENT](#)
- [11 FAQs](#)
- [12 Documents / Resources](#)
 - [12.1 References](#)



Ultranik UM01 Motion Sensor Detector



Specifications

Operating voltage	120 -277 VAC 50/60Hz U M 01 (120V)
Rated load	400W @120VAC, 900W@277 VAC (capacitive load)
Stand-by power	<0.5W
Sensitivity	10% / 50% / 75% / 100%
Hold-time	5s / 90s / 5min / 15min
Daylight sensor	2lux / 10lux / 50lux, disable
Microwave frequency	5.8 GHz +/- 75MHz
Transmitting power	<0.2mW
Detection range	Max. installation height: 6m Max. detection range: Ø 12m @ 3m installation height
Detection angle	30° ~ 150°
Working temperature	-20°C ~ +60°C
IP rating	IP20
Certificate	ETL, FCC

Installation

1. Find the appropriate installation hole as indicated in the manual.
2. Mount the sensor module and antenna module, ensuring they are not shielded by metal objects.

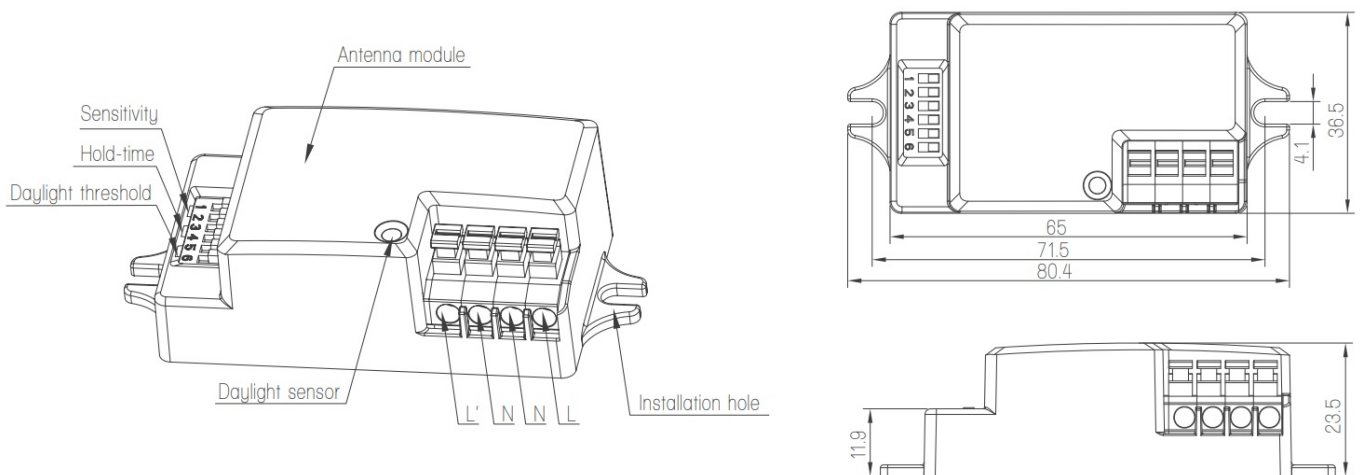
Wiring

Connect the wires following the N L and L N N L' configuration for proper functionality with the control gear.

Settings Adjustment

1. Sensitivity: Adjust sensitivity using the DIP switches for different applications.
2. Hold-time: Set the duration for which the light remains on after movement stops.
3. Daylight threshold: Preset the daylight threshold on DIP switches or disable the sensor for constant activation upon movement.

Dimension



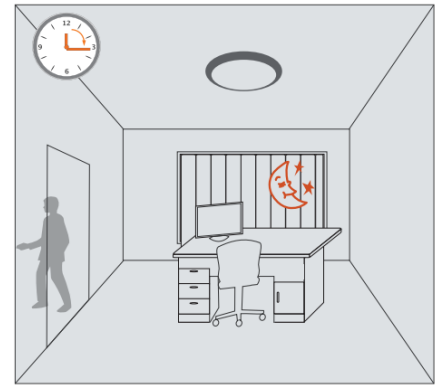
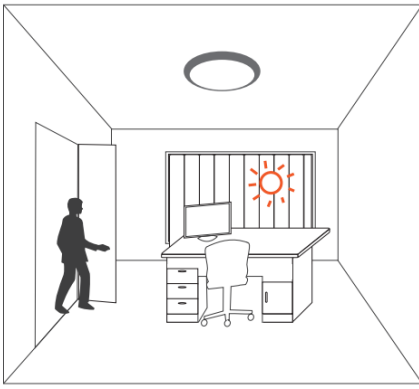
Usage

- The motion detector turns on the light when movement is detected.
- The light remains off during the daytime if ambient lux levels are above the preset daylight threshold.
- Insufficient lux levels coupled with movement trigger the light to turn on.
- The light automatically turns off after the hold-time period if no further movement is detected.

Product Feature

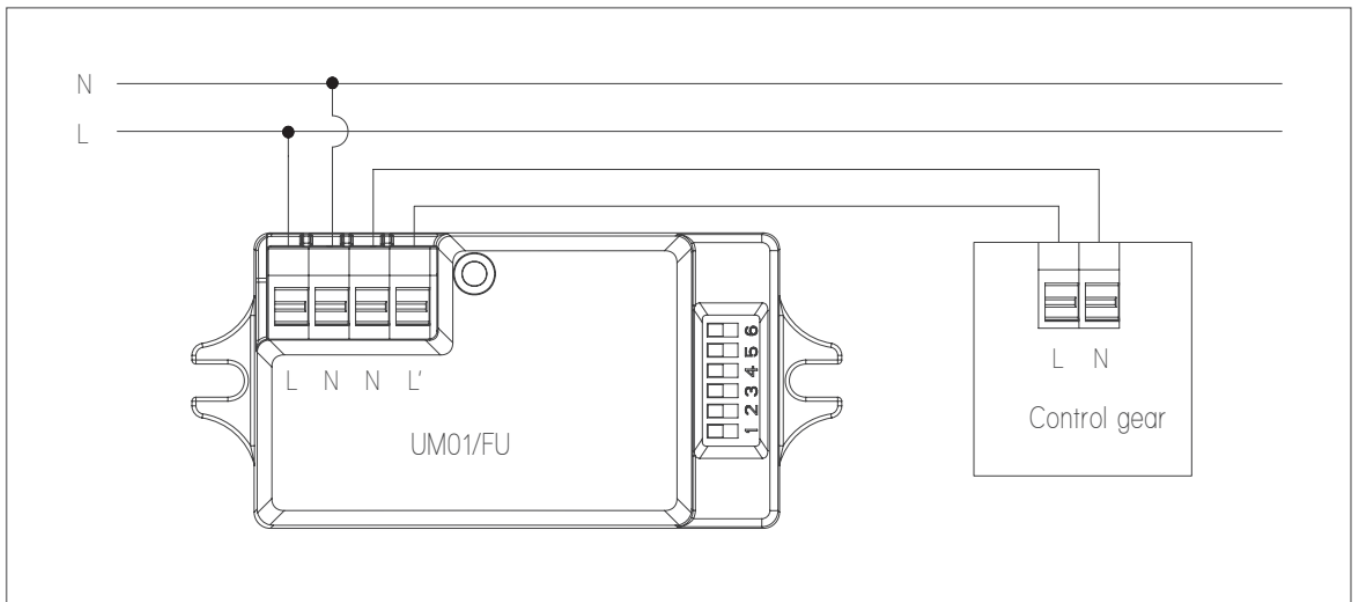
On/off function

The motion detector can turn on the light based on movement. With this detector built, the light is automatically on when needed and off when not needed.

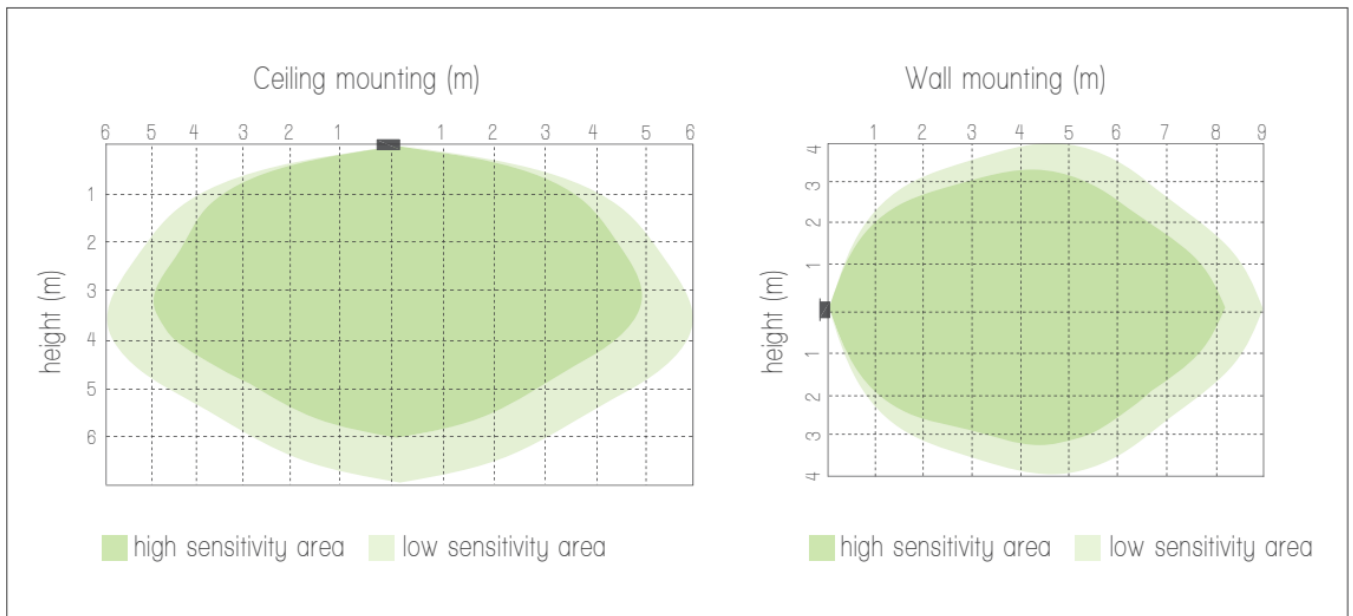


- The light keeps off during the daytime, even when movement is detected. (Ambient lux level is above preset daylight threshold)
- With movement and insufficient ambient lux level, the light is triggered by the detector.
- If there is no more movement, the light turns off automatically after the hold-time preset.

Wiring



Detection pattern



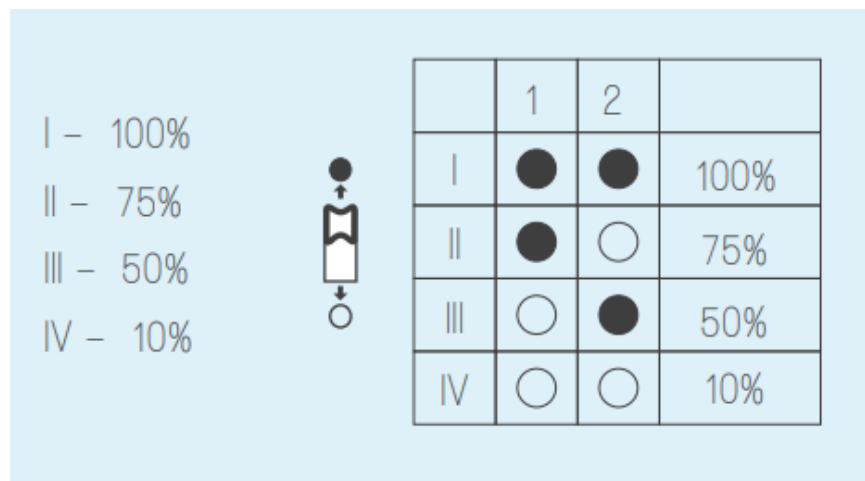
Assembly



Settings

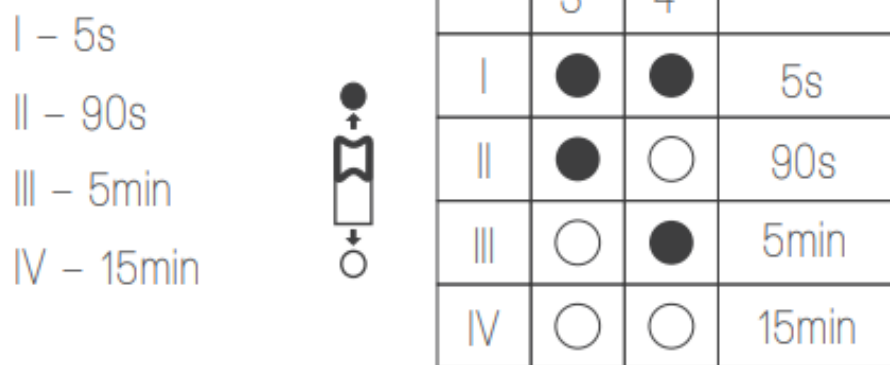
1. Sensitivity

Sensitivity can be adjusted by selecting the combination of the DIP switches for different applications.



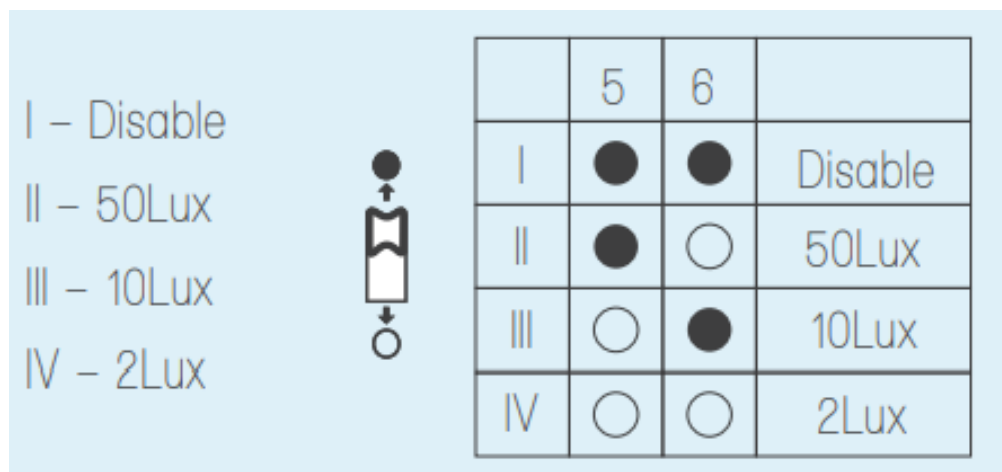
2. Hold-time

Hold-time refers to the period that the light remains 100% on if no more movement is detected.



3. Daylight threshold

Different daylight thresholds can be preset on DIP switches. Light will always turn on upon movement if the daylight sensor is disabled.



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device under Part 15 of

the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Modifications

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FAQs

Q: How do I adjust the sensitivity of the motion detector?

A: The sensitivity can be adjusted by configuring the DIP switches according to your application needs.

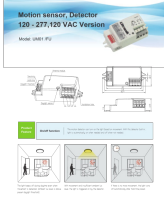
Q: What is the purpose of the daylight threshold setting?

A: The daylight threshold setting allows you to control whether the light turns on based on both movement and ambient light conditions or just movement alone.

Q: How do I know if the motion sensor is working correctly?

A: Ensure that the sensor module is properly installed and not obstructed by any metal objects. Test the functionality by moving within the detection range of the sensor.

Documents / Resources

	<p>Ultranik UM01 Motion Sensor Detector [pdf] User Manual UM01, UM01-FU, UM01 Motion Sensor Detector, UM01, Motion Sensor Detector, Sensor Detector</p>
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References

- [User Manual](#)

