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› KOMIGAN KMG-45 LED Stair Light Kit Instruction Manual

## KOMIGAN KMG-45

# KOMIGAN KMG-45 LED Stair Light Kit

## Instruction Manual

### INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your KOMIGAN KMG-45 Motion Sensor with Daylight Sensor LED Stair Light Kit. This kit is designed to provide intelligent and energy-efficient lighting for indoor staircases, enhancing safety and ambiance. Please read this manual thoroughly before installation and retain it for future reference.

Your browser does not support the video tag.

Video: Overview of the KOMIGAN KMG-45 LED Stair Light Kit features and lighting effects.

### SAFETY INFORMATION

- Ensure the power supply is disconnected before any installation or maintenance to prevent electric shock.
- This product is designed for indoor use only. Do not expose to moisture or outdoor elements.
- Installation should be performed by a qualified electrician if you are unsure about wiring procedures.
- Do not modify the product or its components. Unauthorized modifications may void the warranty and pose safety risks.
- Keep the product away from heat sources and flammable materials.

## PACKAGE CONTENTS

# Wiring Diagram

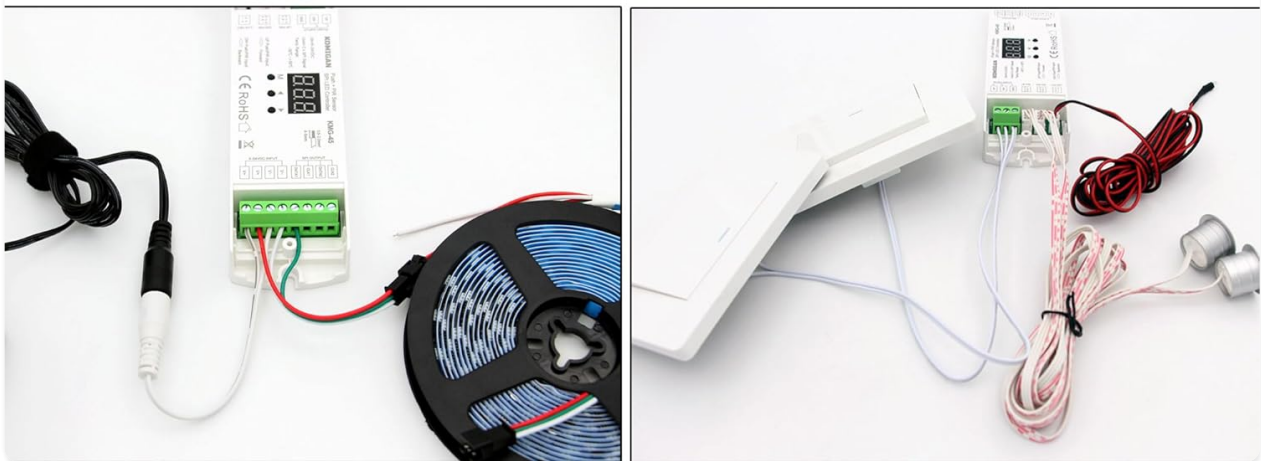
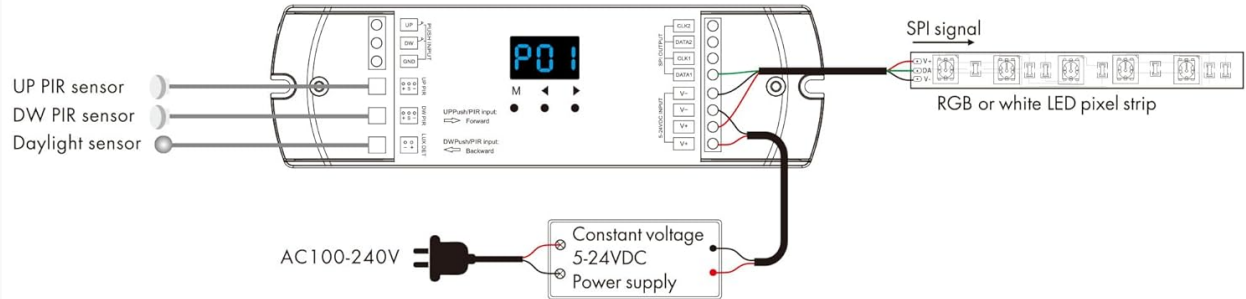


Image: All components included in the KOMIGAN KMG-45 LED Stair Light Kit.

Verify that all the following components are included in your package:

- LED Strip Light (16.4FT Warm White 3000K)
- Controller (KMG-45)
- Motion Sensors (2 units)
- Daylight Sensor
- Power Supply
- Push Button Panel Switches (2 units)
- Sensor Extension Cables
- LED Strip Extension Cable
- Switch Panel Extension Cable
- Screwdriver

## PRODUCT OVERVIEW

### Controller Diagram

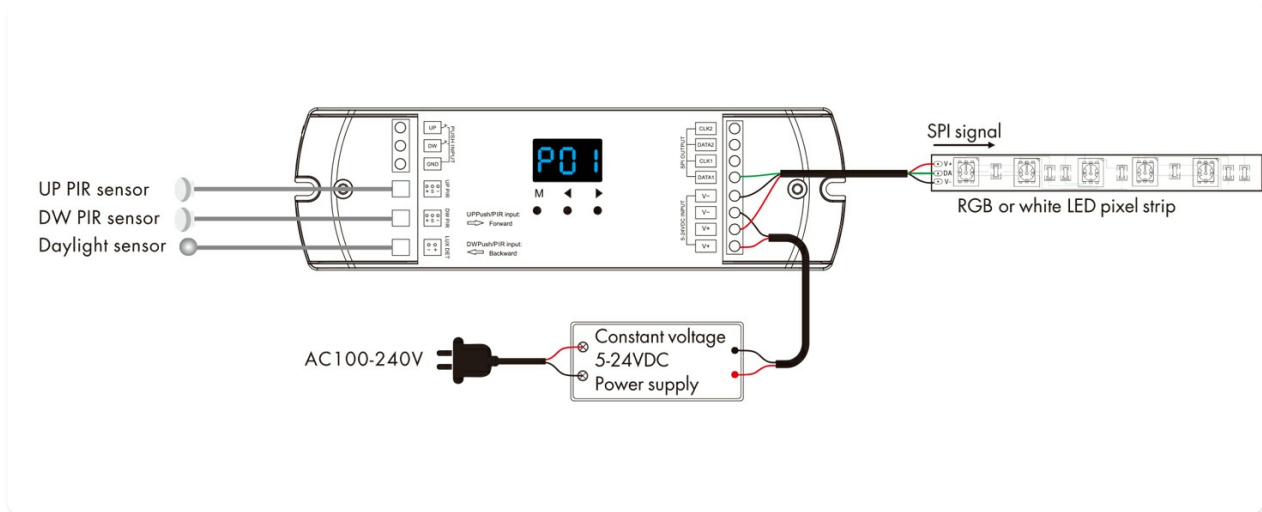


Image: Detailed wiring diagram for the KMG-45 controller, showing connections for sensors, power, and LED strip.

The KMG-45 controller is the central unit for managing your stair lighting system. It features multiple input ports for sensors and switches, and an output for the LED strip. Familiarize yourself with the following connections:

- **UP PIR Sensor:** Connects to the motion sensor placed at the bottom of the stairs.
- **DW PIR Sensor:** Connects to the motion sensor placed at the top of the stairs.
- **Daylight Sensor:** Connects to the daylight sensor for ambient light detection.
- **Power Input (AC100-240V):** Connects to the provided power supply.
- **LED Strip Output (SPI signal):** Connects to the LED pixel strip.
- **Switch Inputs:** For connecting external wall switches for manual control.

## SETUP & INSTALLATION

Careful planning and execution are essential for optimal performance. Consider the placement of sensors, the routing of cables, and the length of the LED strip before beginning installation.

### Wiring Instructions

1. **Prepare Wires:** Use the provided screwdriver to loosen the terminal screws on the controller. Strip approximately 5-7mm of insulation from the ends of all connection wires (LED strip, sensors, switches, power).
2. **Connect LED Strip:** Connect the LED strip's signal wires (Data, Clock, Ground, Power) to the corresponding terminals on the controller's LED output port. Ensure correct polarity and signal assignment.
3. **Connect Power Supply:** Connect the DC plug from the power supply to the controller's power input.

4. **Connect Motion Sensors:** Connect the UP PIR sensor to its designated port and the DW PIR sensor to its designated port. Use sensor extension cables if needed.
5. **Connect Daylight Sensor:** Connect the daylight sensor to its designated port.
6. **Connect Wall Switches (Optional):** If using wall switches, connect them to the appropriate switch input terminals on the controller.
7. **Secure Connections:** Tighten all terminal screws firmly to ensure secure electrical connections.
8. **Mount Components:** Mount the controller, sensors, and LED strips in their desired locations. Ensure sensors have a clear line of sight for motion detection.

Your browser does not support the video tag.

Video: Step-by-step guide on how to install the KMG-45 LED stair lighting kit.

## OPERATING INSTRUCTIONS

### Modes and Settings

The KMG-45 controller offers multiple operating modes and customizable settings:

- **Motion Sensor Mode:** Lights activate upon detecting motion.
- **Daylight Sensor Mode:** Lights operate based on ambient light levels, typically activating in low light conditions.
- **Wall Switch Control:** Allows manual control of the lights using connected wall switches.
- **Light Stay On Mode:** Keeps the lights continuously illuminated.

### Adjusting Settings

The controller features a digital display and buttons for adjusting various parameters:

1. **Switching Parameters:** Short press the 'M' key to cycle through different parameter items (e.g., pixel point number, color type, light change type, brightness, speed, delay time).
2. **Adjusting Values:** Use the '+' and '-' buttons to adjust the value of the selected parameter.
3. **Brightness:** Adjustable from 1 to 10 levels, with 10 being 100% brightness.
4. **Speed:** Adjustable from 1 to 10 levels, controlling the speed of lighting effects.
5. **Delay Time:** Sets how long the lights remain on after motion detection, adjustable from 1 to 99 seconds.
6. **Light Effects:** The controller supports 5 distinct lighting effects for the Warm White 3000K LED strip. These can be selected via the 'M' key and adjusted with '+' and '-'.

## TROUBLESHOOTING

If you encounter issues with your KOMIGAN KMG-45 LED Stair Light Kit, refer to the following common problems and solutions:

- **Lights Not Turning On:**

- Check all power connections to ensure they are secure and the power supply is functioning.
- Verify that the LED strip is correctly connected to the controller with proper polarity.
- Ensure motion sensors are correctly wired and have a clear detection path.
- Check the daylight sensor. If it's too bright, the lights may not activate in daylight sensor mode.

• **Lights Not Responding to Motion:**

- Confirm motion sensors are positioned correctly and not obstructed.
- Adjust sensor sensitivity settings on the controller if available.
- Ensure the system is in motion sensor mode.

• **Lights Flickering or Incorrect Colors:**

- Check all wiring connections for looseness or damage.
- Ensure the power supply is adequate for the length of the LED strip.
- Verify the LED strip type setting on the controller matches your strip (White-IC LED).

• **Settings Not Saving:**

- Ensure you are following the correct procedure for saving settings after adjustment.

If problems persist, contact KOMIGAN customer support for assistance.

SPECIFICATIONS

| Feature              | Specification                                              |
|----------------------|------------------------------------------------------------|
| Brand                | KOMIGAN                                                    |
| Model Number         | KMG-45                                                     |
| Light Color          | Warm White 3000K                                           |
| LED Strip Length     | 16.4 FT (5m)                                               |
| Material             | Plastic                                                    |
| Power Source         | AC                                                         |
| Voltage              | 110 Volts                                                  |
| Wattage              | 60 watts                                                   |
| Brightness           | 3600 Lumen                                                 |
| Special Features     | Dimmable, Energy Efficient, Motion Sensor, Daylight Sensor |
| Control Method       | Touch                                                      |
| Indoor/Outdoor Usage | Indoor use only                                            |
| Assembly Required    | Yes                                                        |

## WARRANTY AND SUPPORT

KOMIGAN products are manufactured to high-quality standards. For specific warranty details, please refer to the documentation included with your purchase or contact KOMIGAN customer service. If you require technical support or have questions regarding your KMG-45 LED Stair Light Kit, please visit the official KOMIGAN website or contact their support team directly.