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› GKOLED Low Voltage LED Linear Step Lights Instruction Manual

GKOLED GKOLDE2W12V27KAB

GKOLED Low Voltage LED Linear Step Lights Instruction Manual

Brand: GKOLED | **Model:** GKOLDE2W12V27KAB

PRODUCT OVERVIEW

The GKOLED Low Voltage LED Linear Step Lights are designed to provide soft, glare-free illumination for outdoor steps, stairs, and pathways. Constructed from durable die-cast aluminum with a black powder-coated finish, these 2W LED lights operate on a 9-15V AC/DC low voltage system, ensuring safe and reliable performance in wet locations. The cutoff design directs light downward, enhancing visibility and safety without causing discomforting glare.

See Every Step Clearly

Directed downward lighting helps define each tread for safer nighttime walking.



Image: GKOLED Linear Step Lights installed on outdoor stairs, providing clear, downward illumination for safe nighttime walking.

Key Features:

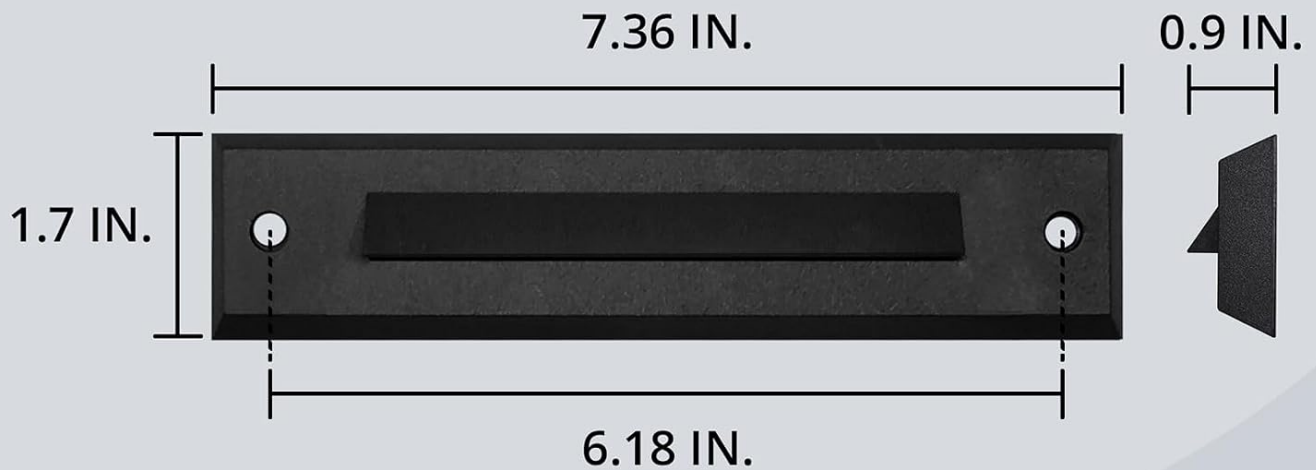
- **Cutoff Design:** Provides soft, comfortable, and glare-free illumination, directing light onto each tread.
- **Durable Construction:** Features rugged die-cast aluminum housing with a powder-coated finish, suitable for wet locations (not for underwater use).
- **Safe Operation:** Operates on 9-15V AC/DC low voltage, minimizing electrical shock risk.
- **Easy Installation:** Designed for surface mounting with included wire connectors and screws. Requires a flat, even surface.
- **Long-lasting LED Chips:** Integrated LED chips eliminate the need for bulb replacement.
- **Energy Efficient:** Each light consumes only 2 watts.

PACKAGE CONTENTS

Before beginning installation, ensure all components are present in your package:

- GKOLED LED Linear Step Lights (Quantity as per pack size, e.g., 12 lights for a 12-pack)

- Wire Connectors (2 per light, suitable for 1 #14 w/1-3 #18 or 20, or 2 #14 w/1 #18)
- Screws (2 per light)
- Expansion Anchors (2 per light)
- 3-Foot SPT-1 18AWG Copper Lead Wire (pre-wired to each light)
- Waterproof Wire Nuts



**3-Foot SPT-1 18AWG
Copper Lead Wire**



**2 Pcs Waterproof
Wire Connectors**



**2 Pcs Screws
2 Pcs Expansion
Anchors**

Image: Detailed diagram illustrating the dimensions of the GKOLED Linear Step Light and a visual representation of the included components: 3-foot copper lead wire, waterproof wire connectors, screws, and expansion anchors.

SETUP AND INSTALLATION

Important: Installation should be performed by a qualified individual. Always disconnect power to the low voltage transformer before installation or maintenance. A 9-15V low voltage transformer (not included) is required for operation.

1. **Plan Placement:** Determine the desired locations for each step light on a flat, even surface. Ensure adequate spacing for optimal illumination and wire routing.

2. **Drill Wireway Hole:** For each light, drill a small hole (wireway hole) at the chosen location to pass the pre-wired lead wire through.
3. **Route Wiring:** Feed the 3-foot lead wire from the step light through the drilled wireway hole. Ensure the wire is protected from sharp edges.
4. **Position Light Fixture:** Place the step light fixture over the wireway hole, aligning the mounting holes with the surface.
5. **Secure Fixture:** Use the provided screws and expansion anchors (if necessary for your surface type) to securely mount the light fixture to the surface.
6. **Connect to Low Voltage System:**
 - Connect the lead wires from each step light to your main low voltage landscape wiring using the included waterproof wire connectors.
 - Ensure all connections are secure and waterproof to prevent moisture ingress.
 - Connect the main landscape wiring to a compatible 9-15V AC/DC low voltage transformer (sold separately).
7. **Test System:** Once all lights are installed and connected, restore power to the low voltage transformer and test the lights.

Your browser does not support the video tag.

Video: This video demonstrates the installation process for GKOLED Low Voltage Linear LED Step Lights, showing how to drill the wireway hole, route the wire, and mount the fixture.



Image: An example of GKOLED step lights installed on wooden stairs, illustrating the discreet placement and wiring integration.

OPERATING INSTRUCTIONS

These GKOLED LED Linear Step Lights are designed for simple operation once properly installed and connected to a low voltage transformer.

1. **Power On/Off:** The lights will turn on and off with the power supply from your low voltage transformer. This is typically controlled by a switch on the transformer, a timer, or a photocell sensor connected to the transformer.
2. **Voltage:** Ensure your transformer provides a stable 9-15V AC/DC output. Operating outside this range may damage the lights or reduce their lifespan.
3. **Light Output:** The lights provide a consistent 2700K warm white light with 100 lumens brightness per fixture. There are no adjustable settings for brightness or color temperature on the individual light fixtures.

MAINTENANCE

The GKOLED LED Linear Step Lights are designed for minimal maintenance due to their durable construction and long-lasting

LED technology.

- **Cleaning:** Periodically clean the light fixtures with a soft, damp cloth to remove dirt, dust, or debris that may accumulate on the surface. Avoid using abrasive cleaners or solvents, as these can damage the finish.
- **Inspection:** Annually inspect the wiring and connections for any signs of wear, damage, or corrosion. Ensure all wire connectors remain sealed and waterproof.
- **LED Lifespan:** The integrated LED chips are designed for a long operational life, eliminating the need for bulb replacement.
- **Water Resistance:** The fixtures are IP65 rated for water resistance, protecting against dust and low-pressure water jets. While suitable for wet locations, they are not designed for submersion or underwater use.

TROUBLESHOOTING

If you encounter issues with your GKOLED LED Linear Step Lights, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Lights do not turn on.	• No power to the transformer. • Faulty wiring connection. • Transformer malfunction. • Incorrect voltage supply.	• Check the power outlet and transformer switch/timer. • Inspect all wire connections for looseness or corrosion. Ensure waterproof connectors are properly sealed. • Test the transformer output voltage. Replace if faulty. • Verify the transformer output is within 9-15V AC/DC.
Lights flicker or are dim.	• Loose or corroded wiring connections. • Insufficient power from the transformer (overloaded). • Voltage drop due to long wire runs or thin gauge wire.	• Check and secure all wire connections. • Ensure the total wattage of connected lights does not exceed the transformer's capacity. • Consider using thicker gauge wire for longer runs or adding another transformer.
Water inside the fixture.	• Improperly sealed wire connections. • Damage to the fixture housing.	• Re-seal all wire connections with waterproof connectors. • Inspect the fixture for cracks or damage. If damaged, the fixture may need replacement.

If these steps do not resolve the issue, please contact GKOLED customer support for further assistance.

SPECIFICATIONS

Specification	Detail
Brand	GKOLED
Model Number	GKOLDE2W12V27KAB
Color	Black
Material	Die-cast Aluminum
Power Source	AC/DC Low Voltage
Voltage	9-15 Volts
Wattage	2 Watts

Specification	Detail
Light Source	Integrated LED
Light Color	Warm White
Color Temperature	2700 Kelvin
Brightness	100 Lumens
Efficiency	50 lumens per watt
Lighting Method	Downlight (Cutoff Design)
Indoor/Outdoor Usage	Outdoor use only
Water Resistance Level	Waterproof (IP65 Rated)
Mounting Type	Surface Mount
Shape	Linear
Item Weight	3.54 Pounds (for 12-pack)
Included Components	Wire connectors, screws, 36" pre-wired lead, waterproof wire nuts

WARRANTY AND SUPPORT

Warranty: This GKOLED product is covered by a **2-year limited warranty** from the date of original purchase. This warranty covers defects in materials and workmanship under normal use.

What is Covered: Repair or replacement of defective parts or the entire product at GKOLED's discretion.

What is Not Covered:

- Damage caused by improper installation, misuse, abuse, or neglect.
- Damage caused by unauthorized repairs or modifications.
- Damage from natural disasters or accidents.
- Normal wear and tear.

To Obtain Warranty Service: Please contact GKOLED customer support with your proof of purchase. You may be required to provide details about the issue and return the product for inspection.

Customer Support: For any questions, technical assistance, or warranty claims, please visit the official GKOLED website or contact their customer service department. Refer to the product packaging or the GKOLED brand store on Amazon for specific contact details.

GKOLED Brand Store: [Visit GKOLED Store on Amazon](#)

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question