

LOW-VOLTAGE TRANSFORMER INSTALLATION

ATTENTION:

Please read this installation guide well for safe and efficient operation of this transformer

Open the package and remove the transformer carefully. Please inspect the product for any damage that may have caused during shipping. Note that transformer mounting hardware is not included.

SAFETY POINTS

This transformer must be installed in accordance with the National Electric Code and local code specifications. Installer should follow these codes and installation instructions. Improper installation will result in void the warranty and may result in serious injury and/or damage to the fixture. This product is designed for above ground installation only. Please read the installation instructions carefully and keep for future using.

◆ **WARNING! Risk of fire or electrical shock.** Install the power unit at least 5 feet (1.5m) from pool or spa and at least 10 feet (3.05m) from a fountain. And the unit must be in or on non-combustible materials only

◆ This transformer must be connected to GFCII-protected receptacle. If the receptacle is outdoors, then it must be protected by a weather-proof cover.

- ◆ All transformers are indoor and outdoor rated, but we recommend the transformer use for outdoors. If installed for indoors, then codes should be followed that apply to indoor wiring
- ◆ Transformer must be installed in a vertical orientation with the bottom plate at least 1 foot from the ground.

◆ In hot climates, do not install the transformer in direct sunlight, but allow photocell to be exposed to sky. Near salt-water, protect unit by enclosing in weather-proof structure.

Mounting Hardware
not included



SELTECT RIGHT TRANSFORMER

The general capacity should have been determined before purchasing the transformer. Circuit loads should not exceed 80% of capacity. Generally speaking, the total wattage of the luminaries should not exceed 80% of the transformer capacity. Please add up the wattage of all fixture lamps to get total wattage. This number should be 20% less than the transformer's wattage capacity. If you are over capacity, you may require a secondary or larger capacity transformer.

SELECT RIGHT WIRE

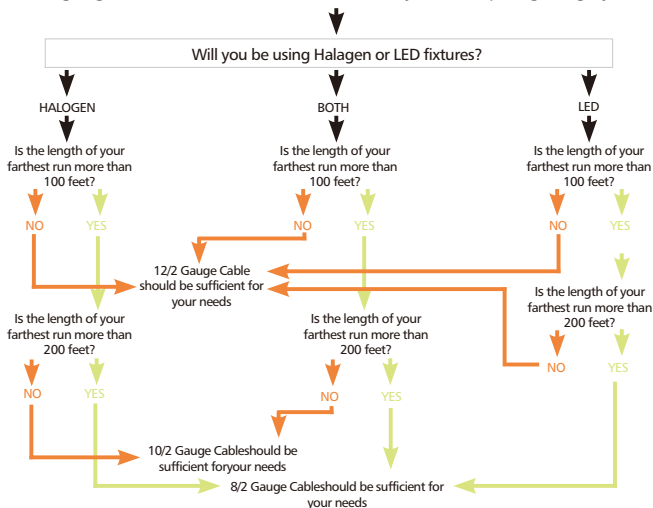
There is a diagram to help you choose right size wire for your lighting system

IMPORTANT! Please note that we do not recommend any runs longer than 300 ft. for low voltage lighting.

Notes

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

What gauge cable do I need in order to run my Landscape Lighting System?

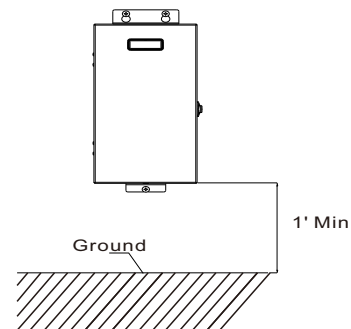


Quick Installation Guide

1. Install transformer
2. Run the wires from transformer to fixtures or hubs
3. Connect all the wires to the transformer terminals and ensure all connections are secure.
4. Plug in the transformer
5. Flip the transformer's internal breakers to the on position to power on the unit
6. Check the transformer and other fixtures are all power on
7. Ensure all the fixtures are on and functioning properly.
8. Measure the voltage at the fixtures or hubs.
9. Choose another voltage terminal if need
10. Install timer and photocell if need
11. Close the transformer door well
12. Burry wires well

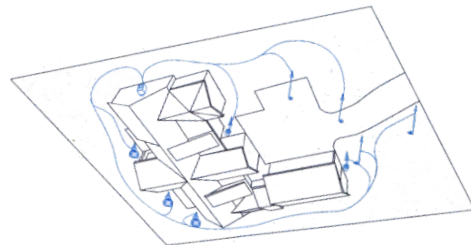
Quick Start Step 1

Install the transformer directly to the solid surface or stand using the wall anchors to insure the transformer is secure. Use bubble level to ensure vertical mounting. Bottom of transformer must be at least 1 foot above ground. Be sure that you are within 5 feet of a GFCI protected outlet with an In-Use cover.



Quick Start Step 2

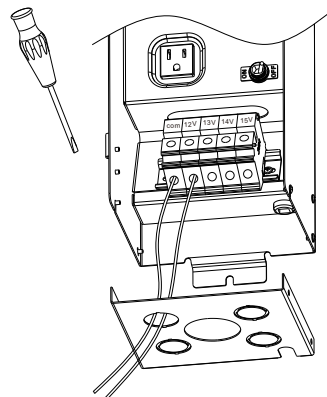
With your layout in hand, run the wires from the transformer to the hub and fixture locations. Leave extra wire to adjust the fixtures at night and achieve the desired effect



Quick Start Step 3

Determine which fixtures are going on each circuit and that will determine which common you use for each wire. Attach all of the wires to the transformer terminals. Using the common and voltage terminals split each wire and fit one side into the common and one side into the desired voltage terminal.

1. Feed the wire through the wire slots and into the transformer.
2. Using a screw driver loosen the screw of the terminal.
3. Strip the lead ends of the wires to allow metal to metal contact within the connector.
4. Slide one side of the wire into the common terminal and one side into the voltage terminal, then tighten the terminal screw with a screw driver. Check for a strong connection by firmly pulling on the wire.

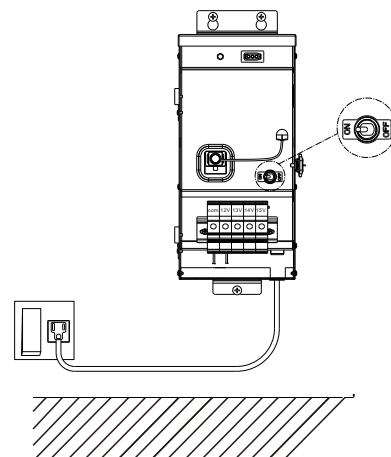


Quick Start Step 4

Plug in your transformer at a GFCI protected outlet with an In-Use cover.

Quick Start Step 5

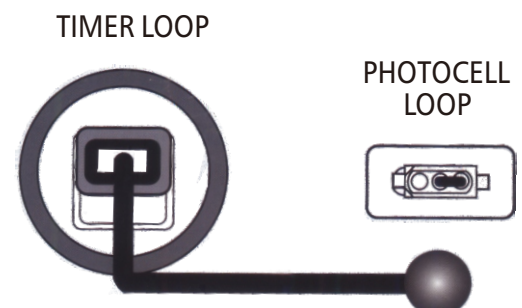
Flip the transformer's internal breakers to the on position to power on the unit.



WARNING: Disconnect power before changing timers or photocells .

Quick Start Step 6

Check that your fixtures are power on. If they are not on, check the transformer's internal breakers are on. Please make sure your timer and photocell are not connected, but the loops are connected. Make sure that your transformer is plugged in and receiving power. If you aren't sure, check if the breaker for the GFCI outlet is on. For any line voltage issues, contact a licensed electrician

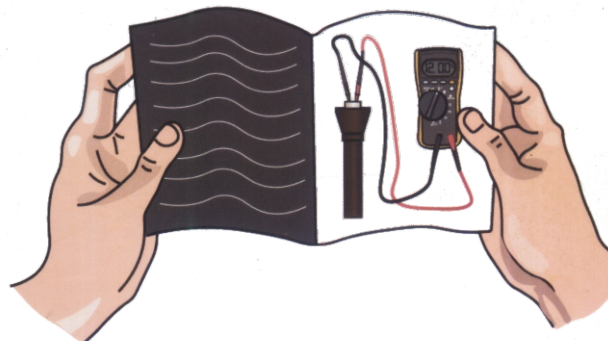


Quick Start Step 7

Make sure that all the fixtures are now functioning properly. Flickering or fixtures that aren't powered on could present a connection problem at the fixture or Lamp. If a failed lamp is suspected, try replacing it with another that is working in a different location. This will help you to troubleshoot where the problem is.

Quick Start Step 8

Using a volt meter, measure the voltage at the fixtures by removing the lamp and using the probes in the bulb receptacle. Be sure that all the other lamps are installed at the time of testing. For integrated fixtures, test voltage at the closest connection point to the lighting fixture. A good range is typically between 10.8 -15 volts for LED lighting fixtures.



Quick Start Step 9

You can adjust the fixture voltage by using a higher voltage at the transformer terminal if necessary.

CAUTION: When adjusting voltage wires, be sure to unplug the transformer before switching terminals

Quick Start Step 10

1. If you need install timers and or photocells, please pull out the jumper loops for each and insert the new unit. For timers, the plug for the loop needs to plug into the side of the new timer. The photocells simply replace the jumper loops.
2. Following your timers instructions, set them to your desired functions

WARNING: Disconnect power before changing timers or photocells .

Quick Start Step 11

Close the transformer door using lock mechanism to ensure a tight seal.

Quick Start Step 12

Make any adjustments to the fixtures. The bury the wire only after the adjustments have been made.