


READ BEFORE YOU START

THIS POWER SOURCE IS TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND THE NATIONAL ELECTRIC CODE (NFPA70). FAILURE TO FOLLOW THESE CODES AND INSTRUCTIONS MAY RESULT IN SERIOUS INJURY, PROPERTY DAMAGE AND VOID THE WARRANTY. THESE INSTRUCTIONS DO NOT COVER ALL TYPES OF INSTALLATION AND MOUNTING, OPERATION OR MAINTENANCE.


WARNING! - FIRE HAZARD

INSTALL POWER UNIT IN OR ON NON-COMBUSTIBLE MATERIALS ONLY (NOT VINYL)


WARNING! - HOT

IN HOT CLIMATES AVOID MOUNTING DIRECTLY IN SUNLIGHT


WARNING! - SHOCK HAZARD

DO NOT INSTALL WITHIN 10 FEET (3M) OF POOLS, SPAS, OR FOUNTAINS.

TURN POWER OFF BEFORE INSTALLING OR SERVICING COMPONENTS.

POWER SUPPLY MUST BE CONNECTED TO GCFI-PROTECTED RECEPTACLE WITH COVER

TOOLS/SUPPLIES NEEDED:

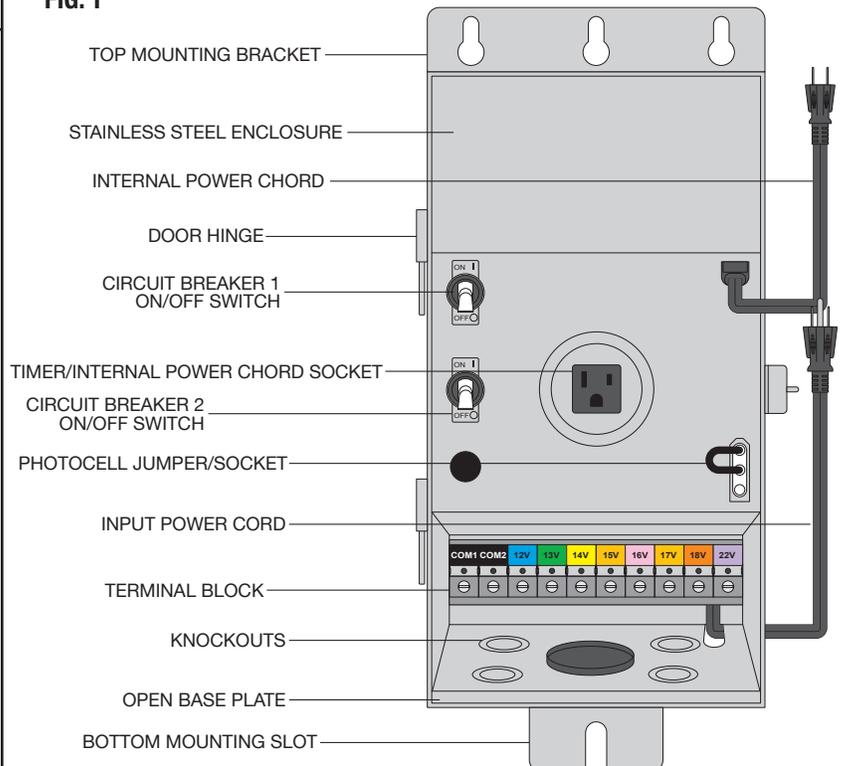
- Large Flathead Screwdriver
- Marking Pencil
- Tape Measure
- Wire Cutters
- Wire Strippers
- Drill

PARTS INCLUDED:

- ILS-SXXX-SS (TRANSFORMERS)
- Flathead Screwdriver (smaller bit size)

IMPORTANT SAFETY GUIDE:

- It is recommended to use a qualified electrician for installation or maintenance.
- Only for use with low voltage luminaires
- Indoor and outdoor rated but recommended for outdoor use. If mounted indoor check for local electrical codes that may apply
- Must be mounted in a vertical orientation with a bottom plate being at least 12 inches off the ground
- Do not use extension cords with transformers
- Do not wire multiple transformers outputs onto the same low voltage circuit

FIG. 1

ILS-S150B-SS

Watts	Common Taps	Output Voltage
150W	x1	12VAC, 15VAC, 14VAC, 15VAC

Output Amps per Circuit	Input Voltage	Input Amps
12.5A	120VAC, 60HZ	1.25A

ILS-S300B-SS

Watts	Common Taps	Output Voltage
300W	x1	12VAC, 15VAC, 14VAC, 15VAC

Output Amps per Circuit	Input Voltage	Input Amps
12.5A	120VAC, 60HZ	2.25A

ILS-S600B-SS

Watts	Common Taps	Output Voltage
600W	x2	12VAC, 15VAC, 14VAC, 15VAC 16VAC, 17VAC, 18VAC

Output Amps per Circuit	Input Voltage	Input Amps
25A	120VAC, 60HZ	5A

NOTE: ENSURE THAT THE CIRCUIT LOADS DO NOT EXCEED 80% OF ITS CAPACITY.

Example:

Maximum Wattage: 600W

80% Safe Load: $600W \times 0.8 = 480W$

50 LED Pathway Lights: $50 \times 5W = 250W$

100 LED Spotlights Lights: $100 \times 2W = 200W$

Total Load: $200W + 250W = 450W$

Verification: $450W < 480W$

(The transformer operates at less than 80% Maximum Load)

INSTALLATION STEPS

Step 1: Unpack and Verify Components

Remove all components from the packaging and remove the faceplate from the transformer. Release the door's locking mechanism, open the faceplate door all the before pulling down of the faceplate to remove from the hinges. (FIG 1)

Step 2: Routing of Input Power Chord

To route the wire out of the transformer, undo the back screw at the bottom on either side of the transformer—once both screws are removed, the back of the base plate will swing open, allowing the wire to be routed through; use the slot created for the input power cord to run the wire cleanly out of the unit. (FIG 2)

Step 3: Mount the Transformer Securely

Confirm the system is positioned within reach of a GFCI-protected outlet (equipped with an in-use cover) to plug in the transformer. Secure the transformer to the wall using appropriate wall anchors for wall materials and transformer weights (ILS-S150B-SS = 12.0lbs, ILS-S300B-SS = 14.7lbs, ILS-S600B-SS = 26.7lbs). Mount the transformer at least 12 inches above the ground, with at least 12 inches of clearance on all sides.

Step 4: Choose and Prepare Wire Routing Method

If using knockouts use screwdriver or knockout tool to remove the desired plug. Attach conduit fittings sized to match trade sizes below (Number of knockouts may vary depending on size of transformer). (FIG 3)

FIG. 2

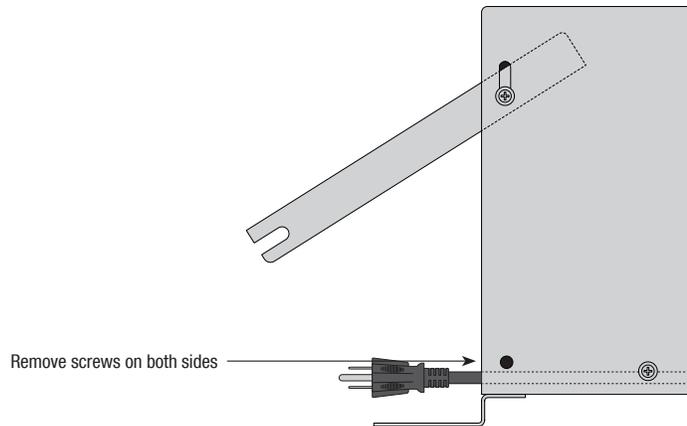
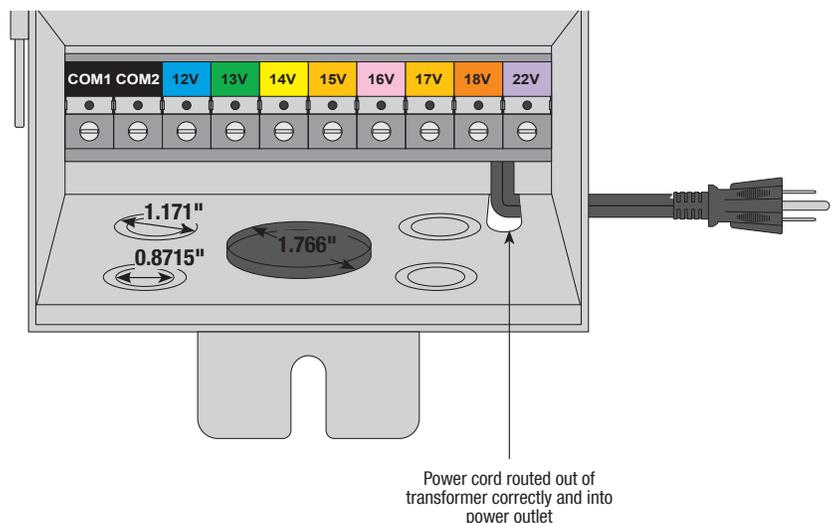


FIG. 3



ILS-SXXXB-SS		
Actual Diameter (Inches)	TRADE SIZE	Number of Knockouts
0.8715"	1/2	*x3
1.171"	3/4	*x3
1.766"	1 & 1/4	x1

* Model ILS-S600B-SS includes x4 of both knockouts

INSTALLATION STEPS

Step 5: Strip Wire Insulation for Connection

Separate wires and strip insulation on both leads 1/2" to expose enough wire for a secure connection.

Step 6: Connect Wires to Transformer Terminals

Using a flathead screwdriver, loosen the terminal screws to release the metal clamping plates. Insert one stripped lead into the common terminal and the other into the desired voltage terminal, ensuring the bare wire sits flat under the clamping plate. Tighten the terminal screws until the wires are gripped securely. After tightening all connections tug firmly on each wire terminal to ensure no loose connections.

NOTE: Do not wire outputs of multiple transformers together, and avoid connecting multi-output terminals (e.g., 12V and 15V, even if both taps are the same voltage) to the same circuit.

Step 7: Power On the Transformer

Plug the transformer into the GFCI outlet, ensuring it has an in-use cover for protection. Using the circuit breaker ON/OFF switch, flip the switch into the "ON" position. (FIG 4)

Step 8: Test and Troubleshoot the System

Check that all fixtures are on and function properly and adjust placement as desired. If any fixtures are flickering or not working, it may indicate a connection issue or a failed lamp. Replace the suspected lamp with a working one to test. For further troubleshooting, use a voltmeter to measure the voltage at the fixture by removing the lamp and placing the probes on the bulb receptacle. (FIG 5)

FIG. 4

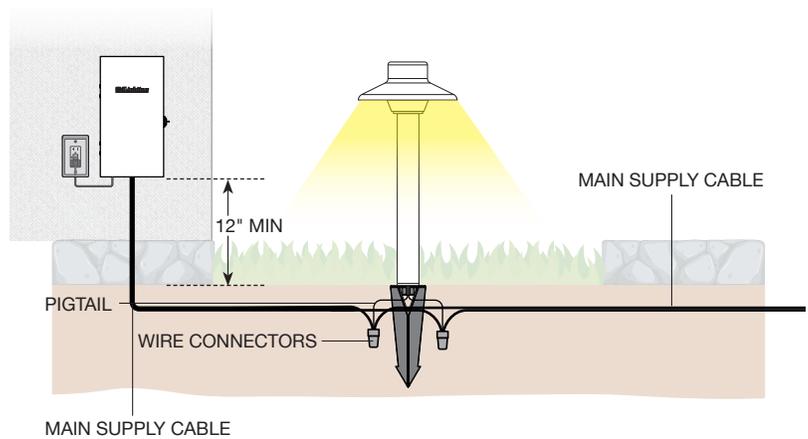


FIG. 5

KEY INTERACTIONS: ILS-SXXXB-SS			
TIMER STATUS	SWITCH STATUS	PHOTOCELL STATUS	OUTPUT POWER
N/A (NOT USED)	ON	N/A (NOT USED)	ON (SWITCH CONTROLS)
N/A (NOT USED)	OFF	N/A (NOT USED)	OFF (SWITCH CONTROLS)
N/A (NOT USED)	ON	ON	ON (CONDITIONS MET)
N/A (NOT USED)	ON	OFF	OFF (PHOTOCELL OVERRIDE)
ON	ON	N/A (NOT USED)	ON (CONDITIONS MET)
ON	OFF	N/A (NOT USED)	OFF (SWITCH OVERRIDE)
ON	ON	ON	ON (CONDITIONS MET)
ON	ON	OFF	OFF (PHOTOCELL OVERRIDE)
ON	ANY	ANY	OFF (TIMER OVERRIDE)

*For transformers with multiple switches status is good for each switch circuit separately

TIMER OPERATION (Sold Separately)

Important Notes:

If NOT using a timer, plug the system's internal power cord directly into a power outlet. If using a timer, ensure the internal power cord is plugged into the timer's outlet—otherwise, the system will not operate.

1: Connect the Timer to the Transformer

- The timer model shown is one of several compatible options. For additional compatible models and complete specifications, please refer to the transformer/timer specification sheet.
- Locate the pre-installed outlet inside the transformer enclosure, and plug the timer directly into this outlet.

2: Power the System

- Take the system's internal power cord (from the transformer) and plug it into the outlet on the side of the timer.

NOTE: This completes the circuit—power flows from the timer to the transformer.

Final Checks

- If the system does not turn on as expected, refer to the installation instructions for the specific model and verify that the timer has been programmed correctly.
- Ensure that the jumper photocell jumper or photocell is plugged into the photocell socket otherwise the system will not function.

FIG. 6

Part Number Shown: ILS-C100M (For more compatible options see specification sheet)

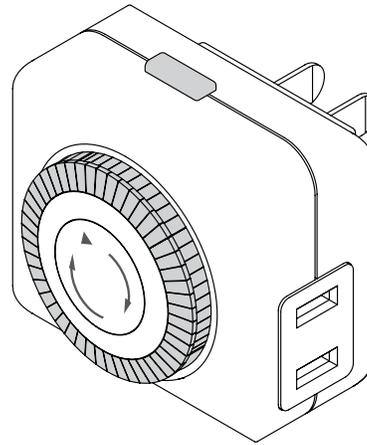
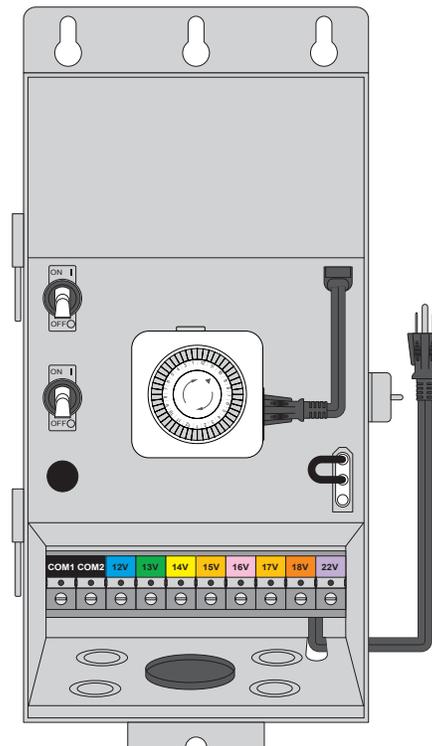


FIG. 7



PHOTOCELL OPERATION (Sold Separately)

Function:

The mechanical timer allows you to manually program exact ON/OFF times for your devices. Unlike a photocell, which activates based on darkness, the timer follows a fixed schedule set by the user.

1: Remove the Knockout

- Use a knockout tool or flathead screwdriver to remove the metal knockout near the photocell terminals.

2: Prepare the Photocell

- Ensure the photocell's wiring is disconnected (if pre-installed).
- Remove the ring nut from the photocell mounting

3: Install the Photocell

- Insert the photocell into the knockout hole, ensuring:
 1. It sits flush with the enclosure (no gaps).
 2. The sensor faces outward for proper light exposure
- From the inside of the enclosure, secure the photocell by tightening the ring nut.

4: Connect the Photocell

- Plug the photocell's wiring into the designated photocell socket in the system.

Final Checks

- Verify the photocell is firmly mounted and aligned.

*See specification sheet on GM Lighting Website for photocell or contact support at (866)671-0811

FIG. 8

