

Installation Instructions

LED Snap Panel Light

Dimmable up to 15W/ft², 24VDC System

Required System Parts:

- (1) Snap Panel Light - 12"x12" (30.5x30.5 cm) P/N: L-SPxWA-yyK
- (1) Power Supply (24VDC Class 2 96W max.)
- (1) Starter Cord - 118" (3 m) P/N: L-SPPKT-3M
- or Starter Cord - 39" (1 m) P/N: L-SPPKT-1M
- or Starter Cord - 12" (305 mm) P/N: L-SPPKT-305MM

Accessories (purchased separately): Extension Cords and Link Cords (various lengths), Back-to-Back Connectors, and additional Mounting Clips.

Tresco's LED Snap Panel Lights are designed for backlighting, shelf lighting and cabinet lighting applications (indoor locations only). To be used with 24VDC Class 2 96W max Power Supplies only. This system is dimmable.

READ ALL INSTRUCTIONS BEFORE INSTALLING SYSTEM.

Before beginning installation, be sure power is turned OFF to light system.

WARNING: Do NOT handle or assemble while Snap Panels are turned on. The electrostatic discharge could damage the LEDs.

Information to help determine installation layout:

- Snap Panel Lights come in 12"x12" (30.5x30.5 cm) panels and are scored every 3" (7.6 cm) to snap off as needed.

| Snap Panel Lights: | 8W | 12W | 15W |
|--------------------|-------------------|------------------|--------------------|
| | .5W/3" | .75W/3" | .94W/3" |
| | 12ft ² | 8ft ² | 6.4ft ² |

- Maximum distance between 96W Power Supply and first Snap Panel Light is 25' (7.6 m).

Installing the Snap Panel Light system:

Roughly lay out the lighting system before installation to verify final positioning of all components. Check that the Power Cord will properly reach the 120V power source.

1. First, install the 24VDC Class 2 96W **Power Supply** (see Fig. #1). Keep power off to Power Supply until complete system is installed. Keep Power Supply in an accessible location.
NOTE: Use insulated staples or plastic ties to secure ALL cords throughout the installation.
2. Next mount the **Starter Cord**. As needed, cut the barrel connector off the Starter Cord and hardwire to the 24VDC Class 2 96W Power Supply following NEC codes.
Important: Make sure to mate the Starter Cord's red wire (+) to red wire (+) of Power Supply output; and the Starter Cord's black wire (-) to black wire (-) of Power Supply output.
As an option, Tresco® 96W Power Supplies are available (part no. L-24DCELT96), to allow you to quick-connect the barrel connector directly to the Power Supply (see #2).
Also if needed, **Extension Cords** (L-SPEXT-xM) are available in 39", 79" and 118" (1m, 2m and 3m) lengths to use between Starter Cord and Power Supply (see #3).
3. Route Starter Cord and plug the other end of Starter Cord with small white Snap Panel Connector into first Snap Panel Light. Gently push in small connector until fully seated (see #4). Snap Panel Connectors can be applied to any set of contacts on any edge of a Snap Panel Light as long as the (+) and (-) polarity match. **NOTE:** Snap Panel Connectors and Snap Panel Lights will only mate when oriented properly since the positive blade is narrower than the negative blade.
4. Mount Snap Panels to a flat surface using either Clips or Screws as noted below.
For backlighting applications and to achieve even illumination (without seeing LEDs as dots of light), space Snap Panel Lights at a minimum of 2" (50 mm) behind a translucent display panel.

Two ways to Mount:

Mounting Clips or Screws can be placed into any mounting hole in Snap Panels, although refer to Fig. #5 for recommended positioning of clips and screws to differently sized panels.

When applying clips and screws be sure LEDs are facing in the proper direction.

Mounting with Clips:

- a. (6) **Plastic clips** are provided with each 12"x12" (30.5x30.5 cm) panel. Clips have 3M® double-sided tape on flat side for mounting. Additional bags of (6) clips may be purchased (L-SPCLP6).
- b. Insert Clips into mounting holes on Snap Panel (see Fig. #5 for a guide). After Clips are applied to a panel, peel-off tape backing and mount panel section to surface.
Apply firm, even pressure for proper adhesion to take place on a smooth, clean surface.
(Note: To remove an installed Clip requires squeezing the pointed-end with pliers.)

Mounting with Screws:

- a. (6) **#4 flat head phillips screws** 1/2" (1.3 cm) are provided with each 12"x12" (30.5x30.5 cm) panel.
- b. Use the Snap Panel as a template and mark screw holes on mounting surface (see Fig. #5 for a guide). Drill small pilot holes. Position Snap Panel on surface. Insert Screws into mounting holes on Snap Panel and screw panel section to surface. Do NOT overtighten.

IMPORTANT! Each 3" (7.6 cm) section has **Rubber Spacers** to help protect the Snap Panel Connectors and must be used when screwing panels directly to a metal surface or the light system may short out!

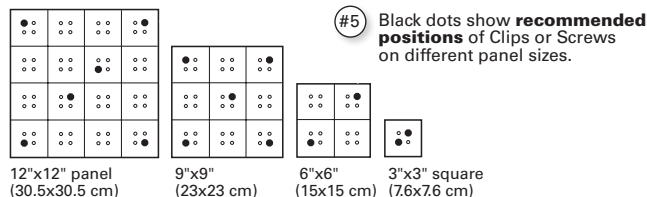
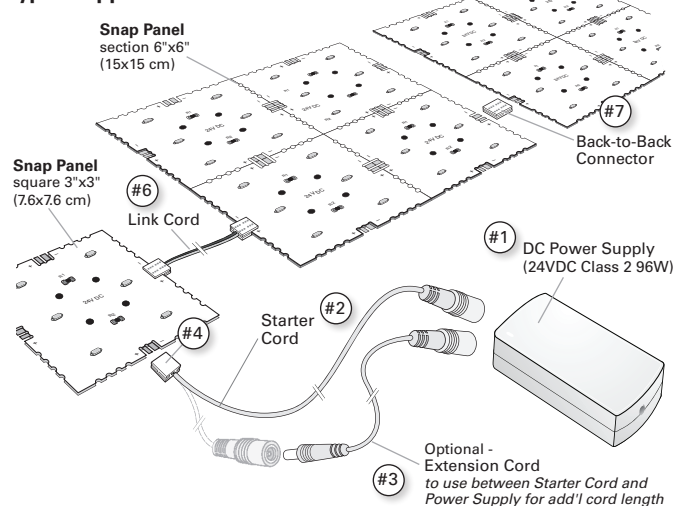
5. Continue adding the Snap Panel sections as needed, linking the panels with **Link Cords** or using **Back-to-Back Connectors** to directly link panels (i.e. without cords). (see #6 and #7)

IMPORTANT: Make sure to match (+) and (-) on ALL links made in the run. If necessary flip Back-to-Back Connector or end of Link Cord or Starter Cord to match polarity.

6. Final step: check all connections and turn 120V power source onto the Power Supply.

Accessories: Tresco® offers other accessories including Switches and Dimmers. Check our catalog for more details.

Typical Application:



IMPORTANT SAFETY INSTRUCTIONS

CAUTION: To reduce the risk of fire, electric shock, or injury to persons:

- NOT intended for outdoor use or where exposed to excessive moisture.
- Do NOT solder your own wires to input/outputs of Snap Panel Lights. Must use Tresco® Snap Panel Connectors.
- Be careful when handling Snap Panel Lights. Snap Panel Lights are scored every 3" (7.6 cm) and can snap and break off.
- Use only insulated staples or plastic ties to secure ALL cords.
- Route and secure cords so that they will not be pinched or damaged when the sign or other structure is pushed to the wall.
- Do not run line voltage power supply cord through holes in walls, ceilings, floors or similar permanent structure.
- If required, a licensed electrician should be consulted for wiring through permanent structures. When mounting and wiring light system, follow all local electric codes and the National Electrical Code (NEC).
- Disconnect electrical power before modifying system.
- Individual LEDs cannot be replaced. Instead replace entire Snap Panel Light section.

This light is intended to be used as a fixture on metal, wood, particle board or other structurally sound, heat-resistant surface. Also intended for use with indoor signage. Care should be taken during and after installation to avoid contact of light with wiring, cord, or any combustible material.

Save these instructions for future reference.

For technical assistance: 1-800-227-1171



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Listed in SAM Manual

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