

**Models:** Round Single Door Sensor 12VDC/24VDC 60W/96W . . . L-RSDS-xx-1  
 Round Two Door Sensor 12VDC/24VDC 60W/96W. . . . L-RSDS2-xx-1  
 Round Motion Sensor 12VDC/24VDC 60W/96W . . . . . L-RSMOT-xx-1  
 Round Touch Dimmer 12VDC/24VDC 60W/96W . . . . . L-RSDIM-xx-1

**Color Availability:** Black, Nickel – 'xx' in Part Number (ex: BL, NI)

# Installation Instructions

## Round LED Controllers

### 60W/96W Capacity 12VDC/24VDC

#### READ ALL INSTRUCTIONS BEFORE INSTALLING SYSTEM.

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

Tresco® Lighting offers lighting Controllers for 12VDC/24VDC that can be recessed or surface mounted.

#### 12VDC Light System

Controllers can be placed between 12VDC Mounting Block (L-TRANS-MNT-BL-1) and Power Supply to control all the lights on one system, or between light and Mounting Block for isolated control of each light.

Round LED Controllers can be used with all Tresco® Power Supplies.

#### OPTION 1

##### To control all lights from (1) Controller and Power Supply:

1. Determine location of Controller and Power Supply.
2. Check wire length from the Controller to the Power Supply. If too short, order an Extension Cord for 12VDC (L-LED-LINKD) from Tresco® Lighting. Max length for total cord is 5 meters (16.4').
3. **To Recess Mount the Controller:** Drill 1/2" (13 mm) hole in surface to tightly house the Controller. Disconnect small connector (see fig.#1). Route wires through hole and push Controller completely into hole until snug. Reconnect small connector.

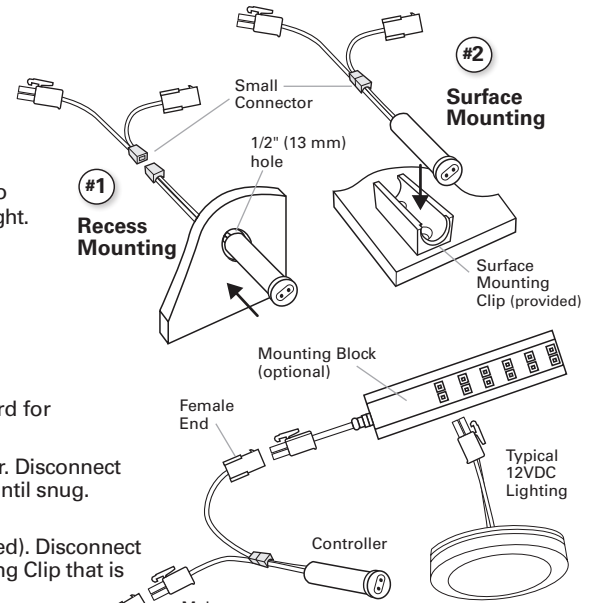
**To Surface Mount the Controller:** Drill 3/8" (9.5 mm) hole to route the Controller's wires (if needed). Disconnect small connector (see fig.#2). Route wires through hole and snap Controller into a Surface Mounting Clip that is securely mounted to a hard surface. Reconnect small connector.

4. Disconnect 12VDC Mounting Block from Power Supply and plug Mounting Block into female end of Controller. Plug male end of Controller into female end of Power Supply (12VDC side).

5. Connect up to (6) 12VDC LED light runs to the Mounting Block, not to exceed 60W.

CAUTION: Max load on Controller is 60W (12VDC).

6. Turn power on to Power Supply.

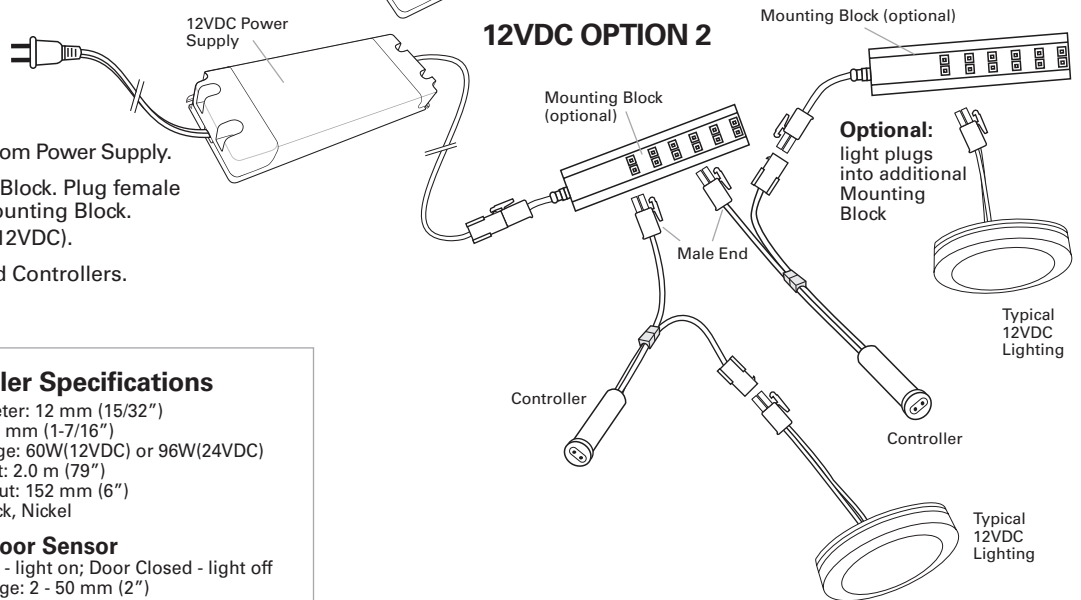


**12VDC OPTION 1**

#### OPTION 2

##### To control lights independently from (2) or more Controllers:

1. Follow steps 1-3 from above.
2. Do not disconnect Mounting Block (12VDC) from Power Supply.
3. Plug male end of Controller into Mounting Block. Plug female end of Controller into light or additional Mounting Block. CAUTION: Max load on Controller is 60W (12VDC).
4. Follow steps above for additional lights and Controllers.
5. Turn power on to Power Supply.



#### Controller Specifications

Unit Diameter: 12 mm (15/32")  
 Length: 37 mm (1-7/16")  
 Max Wattage: 60W(12VDC) or 96W(24VDC)  
 Cable input: 2.0 m (79")  
 Cable output: 152 mm (6")  
 Finish: Black, Nickel

##### Single Door Sensor

Door Open - light on; Door Closed - light off  
 Sensor range: 2 - 50 mm (2")

##### Two Door Sensor

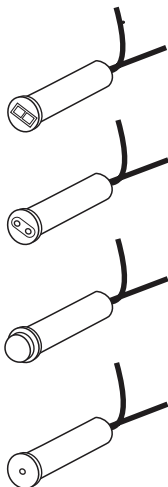
Either Door Open - light on;  
 Both Doors Closed - light off  
 Sensor range: 2 - 50 mm (2")

##### Motion Sensor

Turns on when human motion is detected  
 Sensor range: 0 - 3000 mm (118")  
 Viewing degree: 120°  
 Time on: 30 secs if no motion

##### Touch Dimmer

Touch on/off and 0-100% dimming control  
 Sensor range: 0 - 3000 mm (118")  
 Hold finger down for dimming  
 Touch once to turn on/off  
 Recovers last light setting after power outage



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## 24VDC Light System

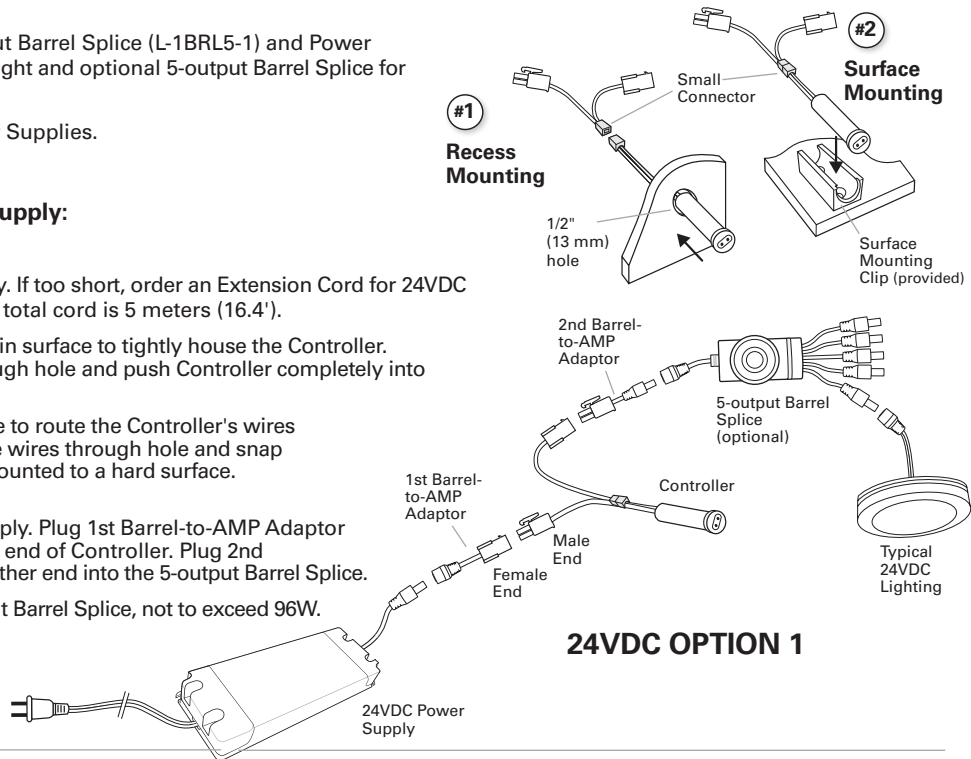
Controllers can be placed between optional 24VDC 5-output Barrel Splice (L-1BRL5-1) and Power Supply to control all the lights on one system, or between light and optional 5-output Barrel Splice for isolated control of each light.

Round LED Controllers can be used with all Tresco® Power Supplies.

### OPTION 1

#### To control all lights from (1) Controller and Power Supply:

1. Determine location of Controller and Power Supply.
2. Check wire length from the Controller to the Power Supply. If too short, order an Extension Cord for 24VDC (L-24BBEXT-3M-1) from Tresco® Lighting. Max length for total cord is 5 meters (16.4').
3. **To Recess Mount the Controller:** Drill 1/2" (13 mm) hole in surface to tightly house the Controller. Disconnect small connector (see fig.#1). Route wires through hole and push Controller completely into hole until snug. Reconnect small connector.
- To Surface Mount the Controller:** Drill 3/8" (9.5 mm) hole to route the Controller's wires (if needed). Disconnect small connector (see fig.#2). Route wires through hole and snap Controller into a Surface Mounting Clip that is securely mounted to a hard surface. Reconnect small connector.
4. Disconnect 24VDC 5-output Barrel Splice from Power Supply. Plug 1st Barrel-to-AMP Adaptor (provided) into Power Supply and the other end into male end of Controller. Plug 2nd Barrel-to-AMP Adaptor (provided) into Controller and the other end into the 5-output Barrel Splice.
5. Connect up to (5) 24VDC LED light runs to optional 5-output Barrel Splice, not to exceed 96W. CAUTION: Max load on Controller is 96W (24VDC).
6. Turn power on to Power Supply.

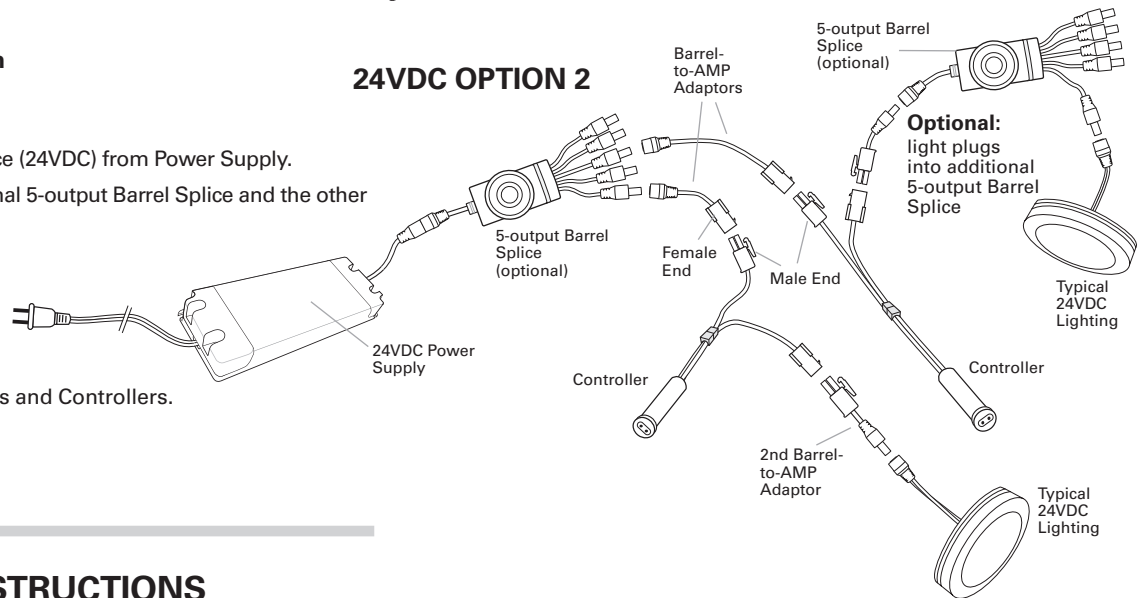


24VDC OPTION 1

### OPTION 2

#### To control lights independently from (2) or more Controllers:

1. Follow steps 1-3 from above.
2. Do not disconnect 5-output Barrel Splice (24VDC) from Power Supply.
3. Plug Barrel-to-AMP Adaptor into optional 5-output Barrel Splice and the other end into male end of Controller.
4. Plug 2nd Barrel-to-AMP Adaptor into Controller and the other end into light or additional 5-output Barrel Splice.
- CAUTION: Max load on Controller is 96W (24VDC).
5. Follow steps above for additional lights and Controllers.
6. Turn power on to Power Supply.



24VDC OPTION 2

## IMPORTANT SAFETY INSTRUCTIONS

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

- Use only in dry locations. Not for use where exposed to the weather.
- Route and secure cords so they will not be pinched or damaged.
- Use only insulated staples or plastic ties to secure all loose cords.
- Use Class 2 or LPS, 12VDC or 24VDC Power Supply to Round LED Controller.
- Do NOT dim the Round LED Controller (or Round LED Controller won't function properly).
- Round LED Controller output 12VDC 60W max or 24VDC 96W max.
- The Round LED Controller is not intended for recessed installation in ceilings or soffits.
- A licensed electrician should be consulted for wiring through ceilings, soffits, or walls.
- All wiring must follow NEC regulations.

**For technical assistance call: 1-800-227-1171**  
**Save these instructions for future reference.**

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