

**Envision LED TSM-9R-  
EMB-UNV 9 Round Slim  
Emergency Battery  
Backup**



# Envision LED TSM-9R-EMB-UNV 9 Round Slim Emergency Battery Backup Instruction Manual

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**Envision LED TSM-9R-EMB-UNV 9 Round Slim Emergency Battery Backup**



## Product Information

### Specifications:

- **Product:** 9-Round Slim Emergency Battery Backup
- **Website:** [www.envisionledlighting.com](http://www.envisionledlighting.com).
- **Minimum Mounting Height:** 4.0m
- **Usage:** Indoor use only
- **LED Indicator Colors/Functions:**
  - **RED:** Battery is charging
  - **GREEN:** Battery is fully charged
  - **YELLOW:** Check system – possible battery replacement needed or system maintenance required
  - **GREEN FLASHING:** Monthly annual check mode is running
  - **OFF:** Indicates a power outage, emergency mode
- **Minimum Charge Time:** 24 hours

## Product Usage Instructions

### Safety Recommendations:

1. Mount the lighting at a height of a maximum of 4.0m.
2. Avoid outdoor use and proximity to gas or electric heaters.
3. Exercise caution when changing batteries – turn off all power sources.
4. Mount equipment out of reach of unauthorized personnel.
5. Use only with the 9-round series lighting.
6. Do not use the product for purposes other than intended.

### Option #1: Slim Surface Mount Installation:

1. Turn OFF/disconnect power at the circuit breaker.
2. Screw the emergency backup unit into the junction box using the provided screws.
3. **Connect the cables as follows:**
  - Switched line to the black switched power cable.

- Continuous main power from the battery backup to the main black wire.
  - Neutral white wire from the battery backup with other neutral wires.
4. Make electrical connections from the lighting fixture with the battery backup.
  5. Complete installation by securing the fixture into place.

### For Continuous Power Applications:

If using the battery backup for continuous lighting or dedicated emergency lighting, only continuous unswitched power is required at the junction box.

## Frequently Asked Questions

Q: How long does it take to charge the battery?

A: The minimum charge time is 24 hours for the battery to fully charge.

Q: What does each LED indicator color signify?

A: RED indicates charging, GREEN indicates fully charged, YELLOW signals system check or maintenance, GREEN FLASHING indicates monthly annual check mode, and OFF signifies a power outage or emergency mode.

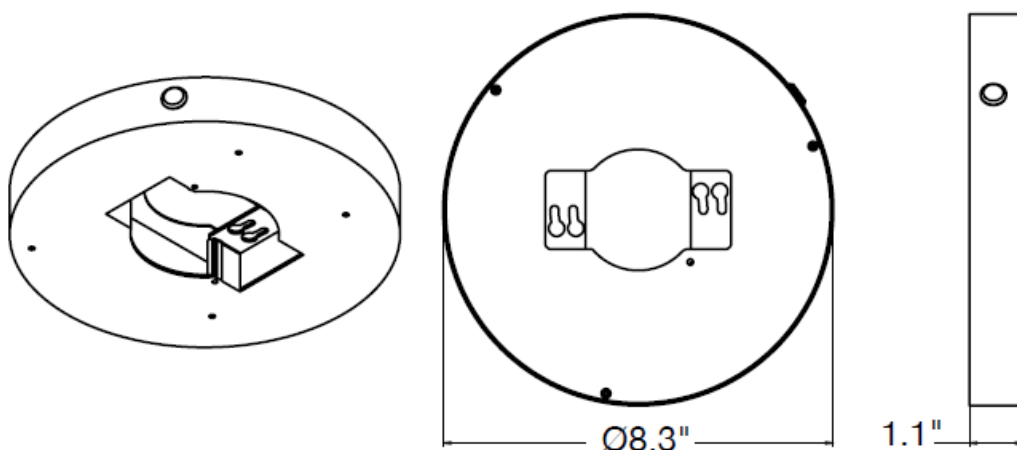
Q: Can this product be used outdoors?

A: No, this product is designed for indoor use only.

## TOOLS & MATERIALS REQUIRED



## Dimension



Wiring supplies are required by the Canadian Electrical Code and/or the Quebec Electrical Code.

## **SAFETY RECOMMENDATIONS**

1. The lighting shall be mounted at a height of maximum 4.0m
2. Do not use outdoors
3. Do not mount near gas or electric heaters. Do not let power supply cords touch hot surfaces.
4. Use caution when changing batteries – **TURN ALL POWER OFF, BOTH WALL SWITCH AND MAIN POWER!**  
Use only the designated battery as supplied with the original unit or as listed for use with this product. Dispose of old batteries in a designated disposal location.
5. Equipment should be mounted in locations and at heights where it will not be subject to tampering by unauthorized personnel.
6. This product is designed for use with the 9" round series lighting. Must be used with any other fixture.
7. Do not use this product for other than intended use.

All serving should be performed by professional personnel.

## **SAVE THESE INSTRUCTIONS.**

## **TEST BUTTON AND LED INDICATOR**

### **TEST BUTTON FUNCTIONS**

#### **1. WHILE THE MAIN POWER IS ON**

- A quick press of the test button, (<3 seconds), simulates the "main power outage" or "emergency mode"
- The light fixture will come on in this case it will be running on battery power.
- Pressing the test button for 3-6 seconds puts the unit into the monthly self-check routine (approx. 3 minutes run time).
- Press the test button again anytime to stop the routine.
- As the system runs its check on the battery power and circuit connections, the LED indicator will flash green at 1 cycle/second.
- Pressing the test button for >6 seconds puts the unit into the annual self-check routine. Up to 90-minute run time
- **NOTE:** THIS SYSTEM WILL COMPLETELY DISCHARGE THE BATTERY DURING THIS ROUTINE.
- Press the test button again anytime to stop the routine.
- As the system runs its more detailed annual check on the battery power and circuit connections, the LED indicator will quickly flash green at 3 cycles/second.

#### **2. EMERGENCY STATUS (MAIN POWER OUTAGE)**

- Pressing the test button for < 1-second shuts off the unit, press again to turn it back on.
- Pressing the test button for >6 seconds completely shuts off the emergency output. In this state, the system will not function unless the main power is restarted.

## **LED INDICATOR COLORS/FUNCTIONS**

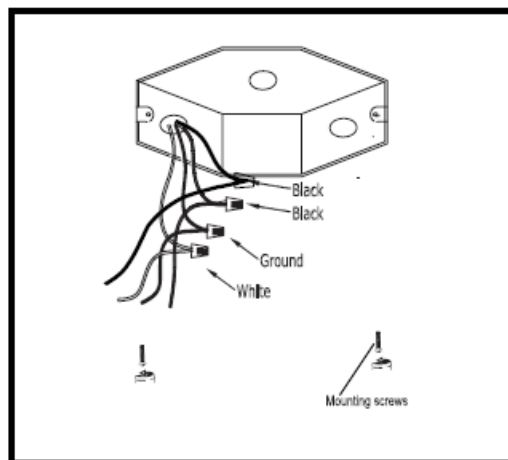
- **RED:** Battery is charging

- **GREEN:** Battery is fully charged
- **YELLOW:** Check system – possible battery replacement needed or system maintenance required
- **GREEN FLASHING:** Monthly annual check mode is running.
- **OFF:** Indicates a power outage, when the battery backup unit is in emergency mode the LED indicator will be OFF.
- **MINIMUM CHARGE TIME:** 24 hours.

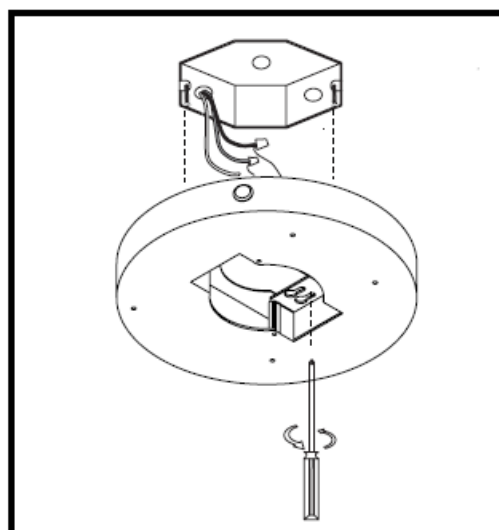
## INSTALLATION

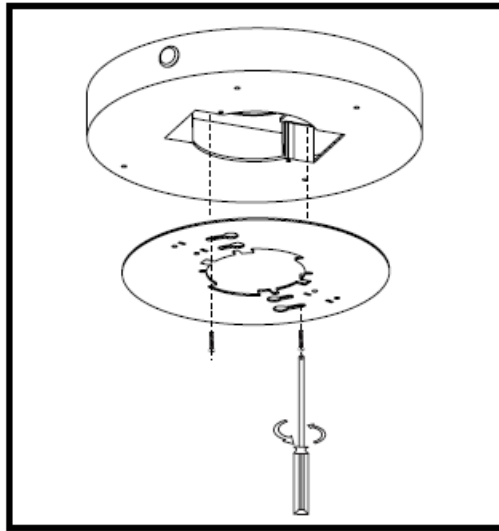
### OPTION #1: SLIM SURFACE MOUNT

1. Turn OFF/disconnect power at the circuit breaker. Typical junction box wiring has only white and black switched wires controlled by a wall switch for ON/OFF or dimming. Ensure the junction box has an additional set of unswitched wires (continuous) main power wires as shown.



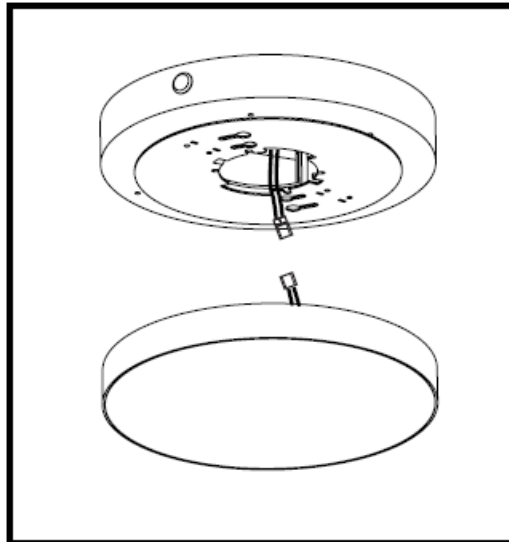
2. Screw the emergency backup unit up into the junction box using the screws provided. Then using the wire unit provided, connect the three cables available for connection into the junction box.
  - Connect the “switched line” to the black switched power cable coming from the junction box.
  - Connect the “continuous main power” from the battery backup box to the continuous main black wire from the junction box.
  - Connect the “neutral” white wire from the battery backup together with the other two neutral wires coming.





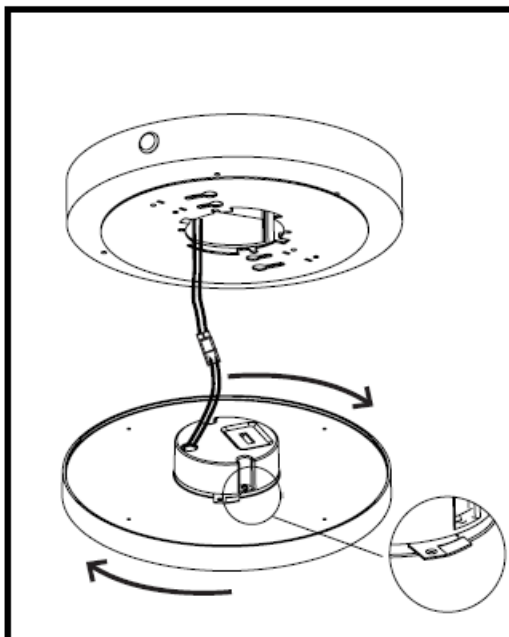
3. Make electrical connections from the blink LED lighting fixture with the battery backup.

- Use the orange connector already supplied and affixed to the unit.
- Be sure to connect the ground wire coming from the lighting fixture.



4. Pop and lock into place.

- Feed all wires up into the battery backup box.
- Complete installation by pushing the fixture into the mounting plate.

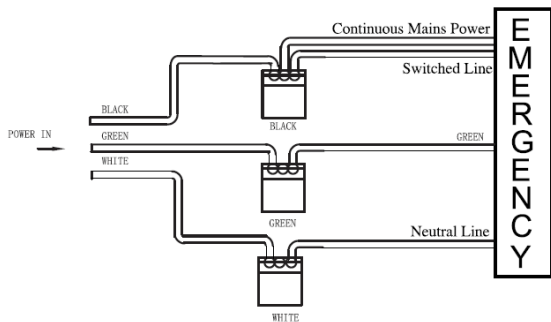


## CONTINUOUS POWER APPLICATIONS

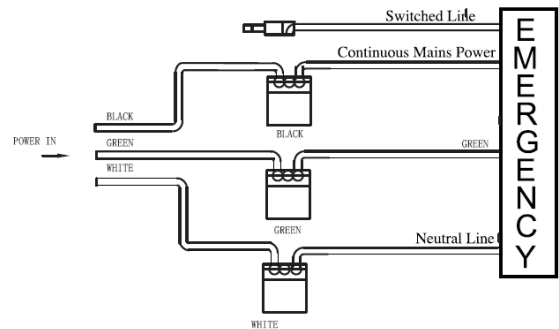
If the battery backup is used for:

1. A system with 24/7 lighting
2. As a dedicated emergency lighting only, (light off in normal condition) continuous unswitched power is needed at the junction box no need for switched wires.

OPTION 1



OPTION 2



For option 1, above as 24/7 lighting:

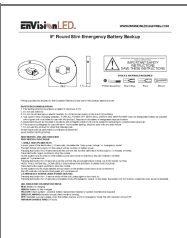
1. Connect the two black wires (labeled as “continuous main power” and “switched line”) from the battery backup to the black main wire in the junction box and connect the white (“neutral”) to white from the box wires.
2. Screw the 2x 8/32 screws provided then go to STEP 4 (shown above)

For option 2, above as emergency light only:

1. Connect the black wire (labeled as “continuous main power”) from the battery backup to the black main wire in the junction box and connect white (“neutral”) to white from the battery backup fixture to the junction box.
2. Screw the wire nut over the “switched line” and leave it unconnected. Then screw the emergency backup unit up into the junction box using 2x 8/32 screws provided, then go to STEP 4 (shown above).

[WWW.ENVISIONLEDLIGHTING.COM](http://WWW.ENVISIONLEDLIGHTING.COM).

## Documents / Resources

	<p><a href="#">Envision LED TSM-9R-EMB-UNV 9 Round Slim Emergency Battery Backup</a> [pdf] Instruction Manual</p> <p>TSM-9R-EMB-UNV 9 Round Slim Emergency Battery Backup, TSM-9R-EMB-UNV, 9 Round Slim Emergency Battery Backup, Emergency Battery Backup, Battery Backup, Backup</p>
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## References

- [LED Envision Led - Envision LED Lighting](#)
- [User Manual](#)

## **Manuals+. Privacy Policy**

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