Micro Star™ Installation Instructions for RailEasy™ Systems

The Micro Star LED Light is the smallest self-contained LED on the market. These LED lights are available in 12v and each draws only .02 amps. Being completely waterproof and encased in a type 316 stainless steel housing, these lights are able to stand up to the most demanding environments. The Micro Star LED Light is both a functional and creative lighting alternative.

The following guide will take you step-by-step through the process of installing Micro Star LED lights on a RailEasy system.

### Tools

**Required & Recommended**

- Carpenter's Square
- Pencil
- Gloves
- Safety Glasses
- Power Drill
- 13/32" Drill Bit
- Tape Measure

### Tips for a Successful Installation

- Read the instructions completely before beginning the installation.
- Check carton(s) to determine part count is complete.

** ALWAYS USE WORK GLOVES AND WEAR SAFETY GLASSES TO PROTECT YOUR HANDS AND EYES.**
Micro Star Components

**Installing Micro Star LED Lighting**

**Micro Star LED Lighting**
The Atlantis Railing Micro Star LED light is the smallest self-contained LED on the market (See Figure A) and come pre-installed in the top rails.

**Install the Transformer**
Mount the Micro Star transformer near a 110v, power outlet but leave transformer unplugged until it is needed (See Figure B). Select the end post closest to the outlet in order to connect to the transformer. You will need to run the low voltage wire down this post so plan accordingly. You may need to drill an additional hole in the decking beneath this post to run the low-voltage wire to keep it hidden. The transformers are available in 1 amp and 5 amps models.

![Micro Star LED light with Push Connector (Male)](image)

**Figure A.** Micro Star LED light with Push Connector (Male).

![DC transformers are comprised of heavy-duty water resistant material.](image)

**Figure B.** DC transformers are comprised of heavy-duty water resistant material.

**USE DC TRANSFORMER ONLY!**
Find the Center of the Top Rail
Use a square and a tape measure to mark the vertical center of the first post. For 36” systems, measure 35” from the deck surface and mark a horizontal line on the post at this height. Measure 41” from the deck for 42” systems. The intersection of these lines is the center point for your top rail (See Figure C).

Drill Holes Through Posts for Wire
At the centers, drill a hole with a 13/32” drill bit 2/3 of the way through the post from both ends. It is important that these holes meet at the center of the post so care should be taken in locating the centers. Thread supplied jumpers (S0825-JMPR-SC) through posts and fittings.

Connect Rails with Jumpers
Beginning with the end post closest to the transformer, connect rails sequentially with the screw connectors male / female (See Figure D).

Connect Micro Star LED Lights with Push Connectors
Atlantis Rail pre-installs Micro Star lights and wiring in the rails before shipping to a customer. If a connection comes undone reconnect the push connectors male / female (See Figure E).

Install rails as they are connected according to the applicable RailEasy system installation instructions.

Do not exceed 5 amps for a power source. Do not use an automotive, marine or mower battery as this may damage the wiring. If any additional wiring and connections are required, wire using a “parallel” circuit. Using a “series” circuit is not recommended.

12 volt dc power source only. Micro Star LED lights are used with direct current transformers only. Using an alternating current transformer or a transformer over 12 volts will cancel all warranty claims and cause the lights to burn out prematurely.
Additional Components

**Micro Star LED Post Cap - (S0985-0000)**
The illuminated LED vinyl post cap includes 4 super bright white LED lights in each corner (See Figure F). It provides sufficient lighting for stairs and walkways. Cap fits over standard 4”x4” vinyl sleeves and is compatible with the RailEasy Sleeve and Micro Star transformers. Post cap arrives pre-wired for easy and quick installation. Fasteners included. Color: White.

![Image of Micro Star LED Post Cap](image)

FIGURE F: Micro Star LED Post Cap (S0985-0000).

**Micro Star Specifications**
The patented Micro Star series is a complete line of lighting options for railings, fencing, steps and many other indoor or outdoor applications. The Micro Star LED Lights are available in 12v and each draws only .02 amps.

**Micro Star Product Specifications**

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<th>Components</th>
<th>Description</th>
<th>Dimensions</th>
<th>Fasteners</th>
<th>Notes</th>
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<tbody>
<tr>
<td>S0832-0001</td>
<td>Micro Star Transformer - 1 amp</td>
<td>100-240Vac - 50/60HZ</td>
<td>--</td>
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<tr>
<td>S0832-0005</td>
<td>Micro Star Transformer - 5 amps</td>
<td>100-240Vac - 50/60HZ</td>
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<tr>
<td>S0801-PC01</td>
<td>Micro Star LED Light with Push Connector</td>
<td>12 Volt DC</td>
<td>Push Connector (Male)</td>
<td>Color: White</td>
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<tr>
<td>S0985-0000</td>
<td>Micro Star LED Post Cap</td>
<td>4.03” x 5.75” x 2.13”</td>
<td>Fasteners included</td>
<td>White Vinyl</td>
</tr>
<tr>
<td>S0825-H048</td>
<td>Micro Star Wire Harness</td>
<td>4’ Handrail</td>
<td>Screw Connectors (M/F) Push Connector (Female)</td>
<td>Factory pre-installed</td>
</tr>
<tr>
<td>S0825-H060</td>
<td>Micro Star Wire Harness</td>
<td>5’ Handrail</td>
<td>Screw Connectors (M/F) Push Connector (Female)</td>
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<td>S0825-JMPR-SC</td>
<td>Micro Star Jumper</td>
<td>12&quot;</td>
<td>Screw Connectors (M/F)</td>
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<tr>
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<tr>
<td>S0825-TW560</td>
<td>Micro Star Transformer to Wiring Harness</td>
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<td>Screw Connector (Female)</td>
<td>5 amps</td>
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</tbody>
</table>

**IP61**: Screw and Push Connectors are protected from total dust ingress and from condensation.