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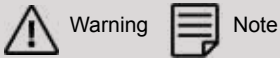
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Micro Star™ Installation Instructions for RailEasy™ Systems

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. Each bulb has a life cycle of 25,000 hours. Being completely waterproof and encased in a type 316L 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.

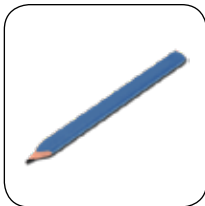
The following guide will take you step-by-step through the process of installing Micro Star LED lights on a RailEasy system.

Tools

Required & Recommended



Carpenter's Square



Pencil



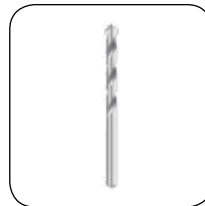
Work Gloves



Safety Glasses



Power Drill



1/4" Drill Bit



Tape Measure

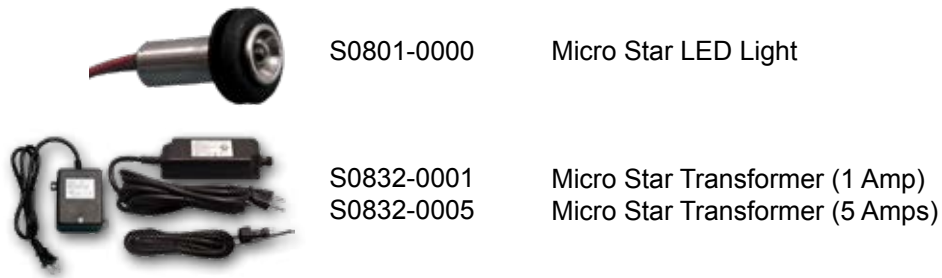
Tips for a Successful Installation

- 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



Additional Components



Micro Star LED Post Cap

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. If you are using the white vinyl sleeves or other sleeves with your rail system, you can run the wire down inside the sleeve to keep it hidden and protected. Take care to run wire on a side where there is no hardware mounted. If you are not using sleeves, other arrangements will need to be made to conceal the wire. The transformers are available in 1amp and 5amp models.



Figure A. Micro Star LED light.



Figure B. DC transformer is 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*). If installing a bottom rail, repeat at the desired lower rail height.



Figure C. Use a square and tape measure to mark the center of your posts.



SOUTHERN BUILDING CODES REQUIRE BOTTOM RAIL SPACING OF NO MORE THAN 2".

Drill Holes Through Posts for Wire

At the centers, drill a hole with a 1/4" drill bit 2/3 of the way through the post from both ends. It is important that these holes meet in the center of the post so care should be taken in locating the centers. Thread supplied jumpers through post and fittings.

Connect Rails with Jumpers

Beginning with the end post closest to the transformer, connect rails sequentially with the jumpers (See Figure D).



ATLANTIS RAIL CHECKS EACH LIGHT IN OUR SHOP TO BE SURE THAT IT IS FUNCTIONING ACCORDING TO SPECIFICATIONS. HOWEVER, IT IS A GOOD IDEA TO CHECK THE LIGHTS ON-SITE TO BE SURE THAT NO WIRING CAME LOOSE IN TRANSIT.

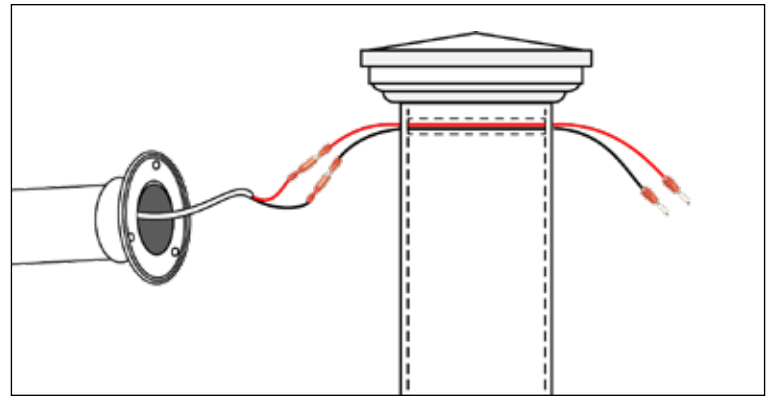


Figure D. Beginning with the end post closest to the transformer, connect rails sequentially with the jumpers.

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



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.



RED WIRES ARE ALWAYS POSITIVE (+) AND BLACK WIRES (SOMETIMES WHITE) ARE ALWAYS NEGATIVE (-). DO NOT EXCEED 2 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.

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 E). 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.



Figure E. 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. Each bulb has a lifecycle of 25,000 hours.

Micro Star Product Specifications

Components

Product	Description	Dimensions	Fasteners	Notes
S0832-0001	Micro Star Transformer - 1amp	100-240Vac - 50/60HZ	--	--
S0832-0005	Micro Star Transformer - 5amps	100-240Vac - 50/60HZ	--	--
S0801-0000	Micro Star LED Light	12 Volt DC	--	--
S0985-0000	Micro Star LED Post Cap	4.03" x 5.75" x 2.13"	Fasteners included	White Vinyl