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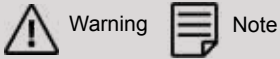
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Micro Star™ Installation Instructions for SunRail™ Systems

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 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 SunRail system.

Tools

Required & Recommended



Work Gloves



Safety Glasses

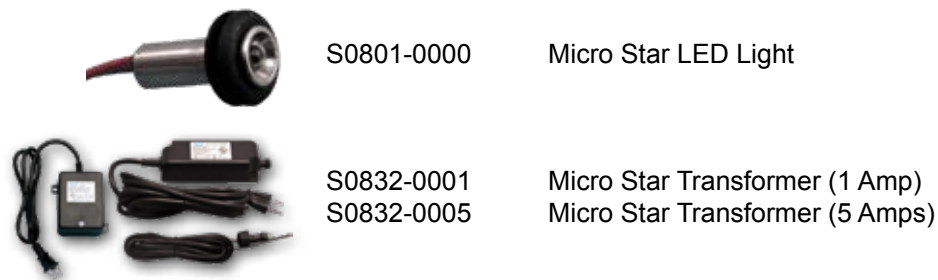
Tips for a Successful Installation

- 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 amp models.



Figure A. Micro Star LED light.



Figure B. DC transformer is comprised of heavy-duty water resistant material.



USE DC TRANSFORMER ONLY!

Install Jumpers

Run supplied jumper wires between all fittings. This includes tees, elbows and 3-way corners (See *Figure C*). Adjustable fittings and dovetails should already have jumpers installed for your convenience.

Connect Rails with Jumpers

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



Figure C. Run supplied jumper wires between all fittings, including tees, elbows and 3-way corners. Adjustable fittings and dovetails should already have jumpers installed for your convenience.



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.

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



Figure D. Atlantis Rail pre-installs Micro Star lights and wiring in the rails before shipping to a customer.



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. BEFORE APPLYING LOCTITE THREADLOCKER BLUE 242 BRAND ADHESIVE TO FITTINGS AND TUBING, BE SURE TO TEST EACH CONNECTION ON BOTH ENDS OF THE TUBE. 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.

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	--	--