

The **firefly (or lighting bug)** is the single living creature that can be simulated in a home environment for natural outdoor lighting effect at night.

**Firefly Magic®** patented firefly LED lights accurately re-create the flashing, flickering and fading effects of Mother Nature's real-life fireflies.

The **FMT-8S1FL** is configured as a pro lighting fixture with flying leads for connecting directly to a low voltage lighting power supply. Due to the ultra-low power consumption, these lights can be simply spliced into the lighting system anywhere there is an existing light fixture or a power wire running through the landscape. Long LED and power wires are provided, and these clusters can be conveniently connected end-to-end (up to 10 clusters).

**Firefly Magic®** firefly lights are commonly placed in trees, bushes, pergolas, around water features and on or around any landscape, deck or patio structure. Firefly lights are particularly popular for use around ponds and water features to give that extra touch of summer evening ambience (though the FMT-8S1FL is not submersible).

**Designed for continuous use in all weather**, power and control circuitry is fully encapsulated by an epoxy resin for long service life well beyond the 1-year Limited Warranty - expected service life 10-20 years.



- 8 firefly LEDs - Firefly Green
- Power with 12V AC or DC
- Connect end-to-end (up to 10)
- **Rugged and Reliable**
  - High pull-strength control module/wires
  - Stainless steel screws
  - **Service life 10 yrs+**
- 1-Year Limited Warranty

"When my guests go into the backyard they're shocked when they see fireflies right here in the San Fernando Valley! Thanks for adding so much fun to my parties"

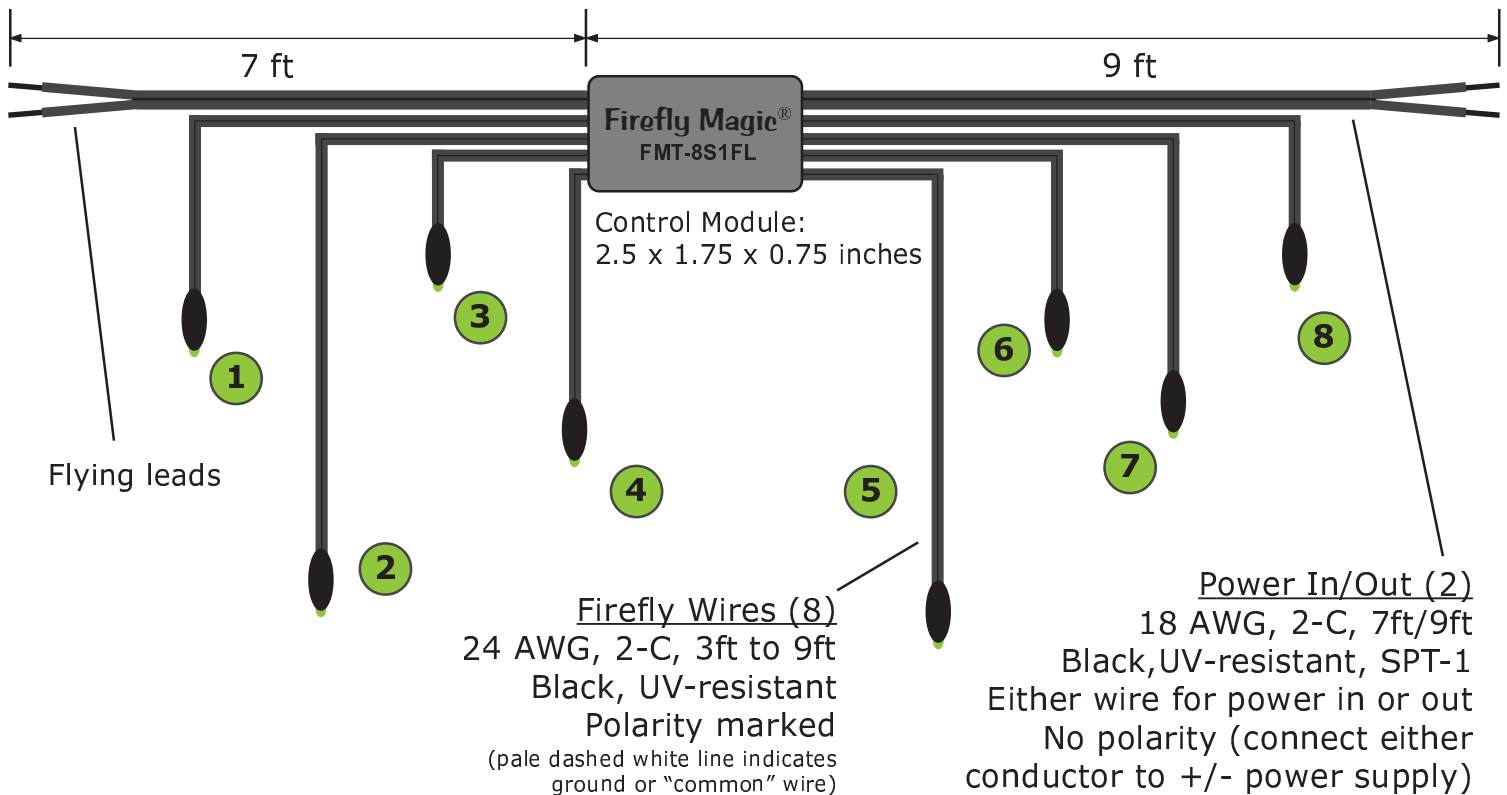
- Sean Taylor, Chatsworth, CA

"Firefly Magic firefly lights are so realistic, they even fool other fireflies!"

- Sara M. Lewis, Associate Professor  
Department of Biology  
Head of Firefly Research  
Tufts University  
Medford, Massachusetts

# Specs

## FMT-8S1FL Low Voltage Firefly Lights



### Electrical Operating Requirements

**Input Voltage (Range):** 12V AC or DC (10 to 14V)

**Current:** <0.07A peak, <0.015A average

**Power Consumption:** <1.0W peak, <0.2W average

**End-to-End connection** - recommended power supply input voltage to first cluster

- 3 clusters: 10.2 to 14.0 volts
- 6 clusters: 10.5 to 14.0 volts
- 10 clusters: 10.9 to 14.0 volts

### Firefly Wire Lengths

Firefly #	Feet	Firefly #	Feet
1	8	5	6
2	8	6	6
3	3	7	9
4	3	8	9

"My customers love their firefly lights, they're so realistic!

I have some at my home, and had friends over recently. I didn't mention the firefly lights. We were sitting around the firepit and slowly they began to notice the fireflies. It was fun to watch as they first thought they were real fireflies.

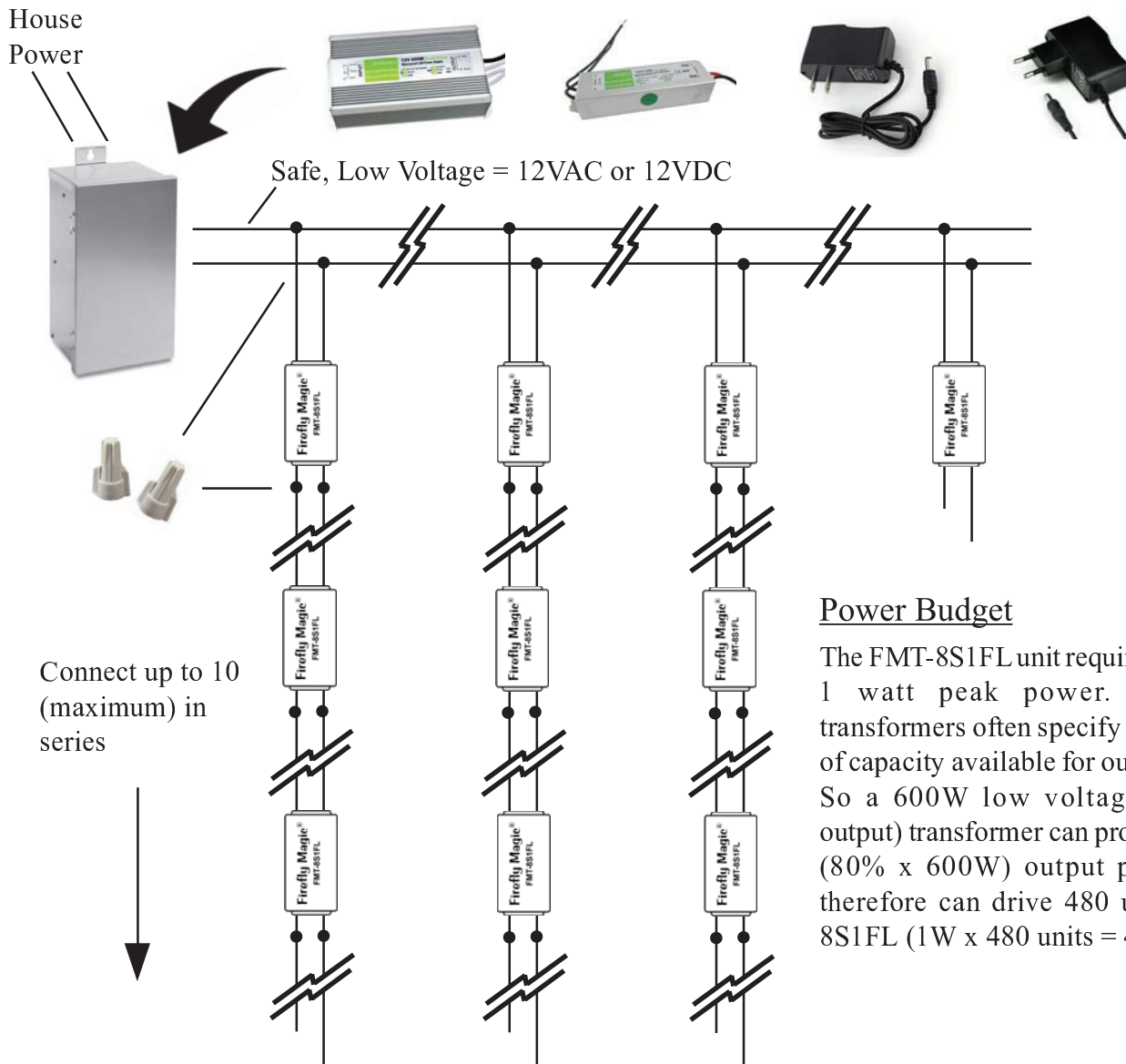
I really like the subtle glow and fading effect of these Firefly Magic lights."

- **Dan Tanto, Kettering Irrigation & Lighting**  
(Kettering, Ohio)



# Application Wiring

FMT-8S1FL  
Low Voltage Firefly Lights



## Power Budget

The FMT-8S1FL unit requires less than 1 watt peak power. Magnetic transformers often specify up to ~80% of capacity available for output power. So a 600W low voltage (12VAC output) transformer can provide 480W (80% x 600W) output power, and therefore can drive 480 units FMT-8S1FL (1W x 480 units = 480 watts).



# Firefly Magic® as seen...

(sample of commercial customers)

**DELANO HOTEL, MGM RESORTS INT'L - LAS VEGAS, NV**

**HGTV - Home & Garden Television**

**Universal Studios - Universal City, CA**

**WARNER BROS STUDIOS - BURBANK, CA**

**WALT DISNEY IMAGINEERING - ANAHEIM, CA**

Walt Disney Special Events - Sun Valley, CA

Walt Disney Studios - Burbank, CA

**PARAGON CASINO RESORT, LA**

*Macy's - New York, NY*

**Lux-Lumen - Belgium**

Magnolia Restaurant - Pasadena, CA

**Ballet AUSTIN - AUSTIN, TX**

**Bronx Zoo - Bronx, NY**

**Tuacahn Center For the Arts - Ivins, UT**

Cincinnati Opera - Cincinnati, OH

Animal Planet's Backyard Habitat

**Silicon Valley Ballet - San Jose, CA**

**OpenStage Theatre - Ft. Collins, CO**

**Flaming Flower Productions - Hollywood, CA**

*(leading Hollywood event production company - events including Golden Globes, Grammy's, Oscars, Playboy Mansion, Naomi Campbell, Katy Perry...)*

PAGOSA SPRINGS CENTER FOR THE ARTS - PAGOSA SPRINGS, CO

**Chumash Casino - Santa Ynez, CA**

Ray Bright Technologies - India

**Busch Gardens - Tampa, FL**

**MT. PISGAH STATE PARK - PENNSYLVANIA**

**Ronald McDonald House - Atlanta, GA**

Wedding Elegance - Johnstown, PA

**Red Moon Theater - Chicago, IL**

Four Seasons, Walt Disney World® - Orlando, FL

**Colonial Players - Annapolis, MD**

Bellagio Hotel - Las Vegas, NV

**Dollywood - Pigeon Forge, TN**

*Jamestown Audubon Nature Center - Jamestown, NY*

**NATIONAL GEOGRAPHIC CHANNEL**

**Discovery Museums - Acton, MA**

**Columbus Zoo - Columbus, OH**

**Inn Bliss Bed and Breakfast - Newport, RI**

TULSA ZOO AND LIVING MUSEUM - TULSA, OK

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**Customers in The USA, Canada, Iceland, Sweden, United Kingdom, Germany, Australia, Spain, South Africa, Singapore, Indonesia, South America, Mexico, India, among other countries.**



**Bill Gates: Innovating to Zero - TED Talk**

*"I decided that releasing fireflies would be my contribution to the environment here this year. So here we have some natural fireflies. I'm told they don't bite; in fact, they might not even leave that jar." (Fireflies made by Firefly Magic®)*