

## PRODUCT INFORMATION

# FIFTHLIGHT

# DALI DIMMING MODULE



**fifthlight**  
technology

# DALI DIMMING MODULE

Fifth Light Technology's DALI Dimming Module provides continuous dimming control for incandescent and magnetic low voltage loads. The integrated Digital Addressable Lighting Interface (DALI) allows for integration with networks of any size.



## KEY PRODUCT FEATURES

- Forward phase dimming control for incandescent and magnetic low voltage loads
- Ideal for use in applications requiring finely tuned continuous dimming control
- Integrated DALI communication interface (can be run in the same conduit as power lines)
- DALI interface only consumes 2 mA allowing the maximum number of devices (64) to be connected to the DALI bus without exceeding the maximum current limitation of 250 mA per bus
- Automatic loss of DALI power detection circuit defaults to a programmable state
- Form factor allows for simple connection to ceiling mount junction box.
- 3 year standard warranty with a 6 year extended warranty available

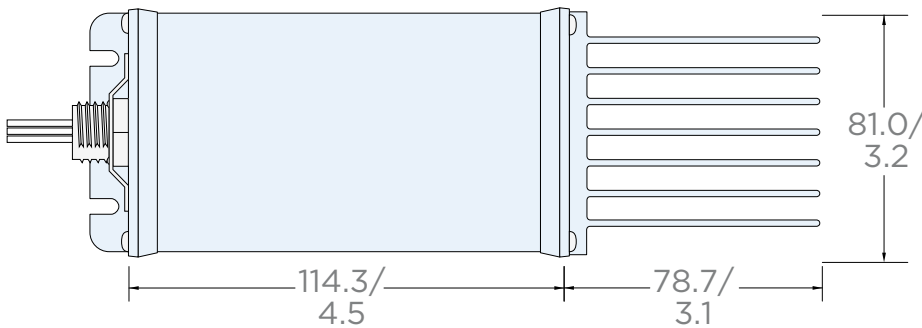


## PERFORMANCE

Finely tunable dimming control over high current loads make the DALI Dimming Module ideal for demanding lighting control applications

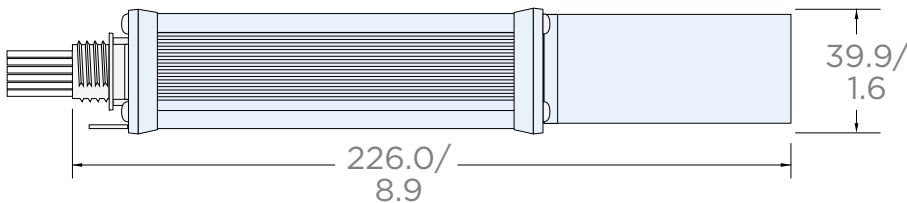
## DIMENSIONS (MM/INCHES)

### TOP VIEW



The DALI Dimming Module is equipped with a bracket for mounting to a 4" junction box. Wires are passed from the underside of the module and through the bracket.

### SIDE VIEW



## TECHNICAL SPECIFICATIONS

### MODEL#

Ordering Code

**FLT-HPDM-DALI  
10601**

### STANDARDS

Nominal AC Input Voltage: 120 V 50/60 Hz

Maximum Switching Current: 20 Amps

Minimum Load: 15 Watts

DALI Current Draw: 2 mA

DALI Input Voltage: 9.5 V - 22.5 V

Ambient Temperature: 0°C to 40°C

• CSA C22.2 No. 184-M1988 (R2009) - Solid State Lighting Controls

• ANSI/UL Std No. 244A - Solid State Controls for Appliances

## INSTALLATION INSTRUCTIONS

The DALI Dimming Module contains power and communication wiring. This device should only be installed by a qualified electrician. Ensure that the distribution panel is equipped with appropriate overload and short circuit protection.

### ORIENTATION

- Position the Dimming Module so that the heat sink fins are vertical.
- Ensure that there is sufficient area around the heat sink to allow for convection cooling.
- The over temperature protection circuit will power the device off in the event of overheating

### MAGNETIC LOW VOLTAGE TRANSFORMER LOAD

- Use 50/60 Hz transformers with iron core designed for use with reverse phase angle controllers.
- Only transformers that are equipped with fused primary windings should be used.
- Do not operate the Dimming Module under no-load conditions. Replace burnt out lamps immediately.

### TEST PROCEDURE

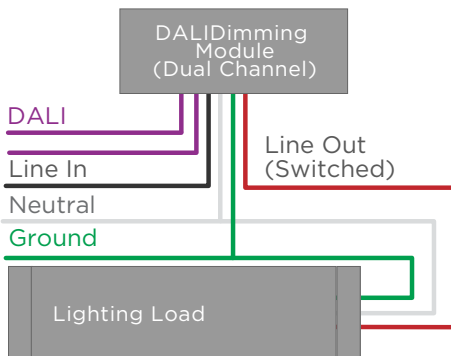
- Confirm that there are no open or short circuits on the line before powering the device on.
- It is recommended to energize the lighting circuit with an appropriately rated manual switch before connecting this device in order to test for short and open circuits.



### IMPORTANT

- Disconnect all power from lighting circuits before installing or servicing this device due to presence of high voltages. Follow all applicable electrical codes.
- Ensure sufficient ventilation space when installing to avoid overheating
- Disconnect all power from lighting breakers before installing or servicing high voltages
- Failure to follow all regulations and guidelines may result in serious bodily harm and damage to equipment

## ELECTRICAL CONNECTIONS

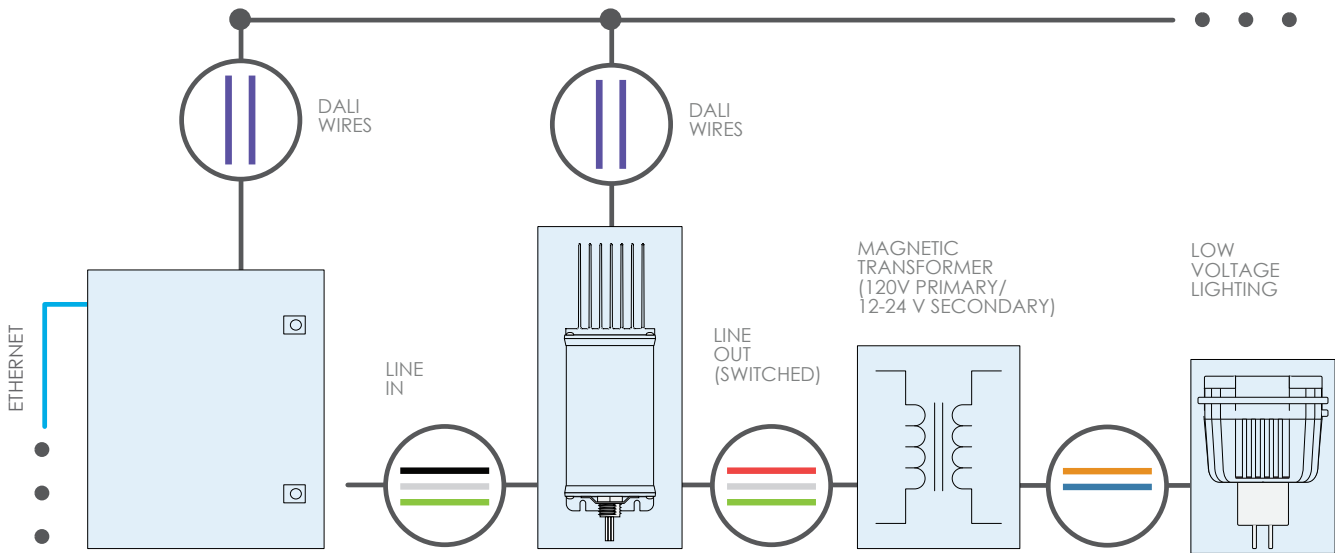


### IMPORTANT NOTE

- Install in accordance with all applicable National and local electrical & building codes.
- Specifications subject to change without notice.

## DALI COMMUNICATION INTERFACE

The Digital Addressable Lighting Interface (DALI) is the international standard lighting communication protocol. It allows for a variety of lighting devices to be networked together on a common communication network. Run DALI wires with power wires in the same conduit or modular wiring to minimize installation costs. DALI wires are 18 AWG or larger, non-polarized, non-twisted, non-shielded and have a maximum length of 300 m. A maximum of 64 devices can be connected to a DALI bus. Each relay contained within the relay panel is a DALI device.



## EMERGENCY DEFAULT

The DALI Dimming Module defaults to the on state when power is lost to its DALI communication bus. To use the DALI Dimming Module with emergency lighting fixtures, connect the power supply of the DALI communication bus (ie. the Lighting Control Panel) to the non-emergency power supply and connect the power wires of the DALI Dimming Module to an emergency power supply. When power is lost to the non-emergency power supply, the DALI Dimming Module will detect the loss of voltage on the DALI communication bus and will automatically revert to the on state. As emergency power is initiated, current will flow through the Dimming Module and to the emergency lighting fixtures. Users will not be able to turn the Dimming Module off until normal power is resumed.



## CONTACT INFORMATION

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