

PRODUCT INFORMATION



fifthlight
technology

DALI FIELD RELAY

Fifth Light Technology's line of addressable field relays provide on/off control and network connectivity in order to conserve energy and effectively manage the lighting system. Simply connect to the integrated Digital Addressable Lighting Interface (DALI) bus to control daily operating cycle of the lighting system.

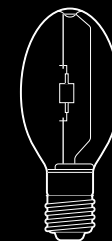
KEY PRODUCT FEATURES

- Integrated DALI communication interface (can be run in the same conduit as power lines)
- DALI interface only draws 3.75 mA allowing the maximum number of devices (64) to be connected to the DALI bus without exceeding the maximum current (250 mA) limitation
- Universal Voltage Input (120 V - 347 V)
- Available in low power (347 V/1.5 A) and high power (347 V/20 A) models
- Automatic loss of power detection defaults relay to closed (on) position
- 3 year standard warranty with a 6 year extended warranty available



VERSATILITY

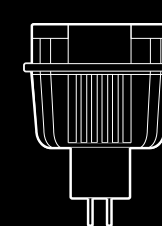
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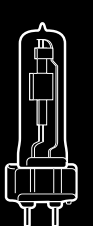
FLOURESCENT



HALOGEN



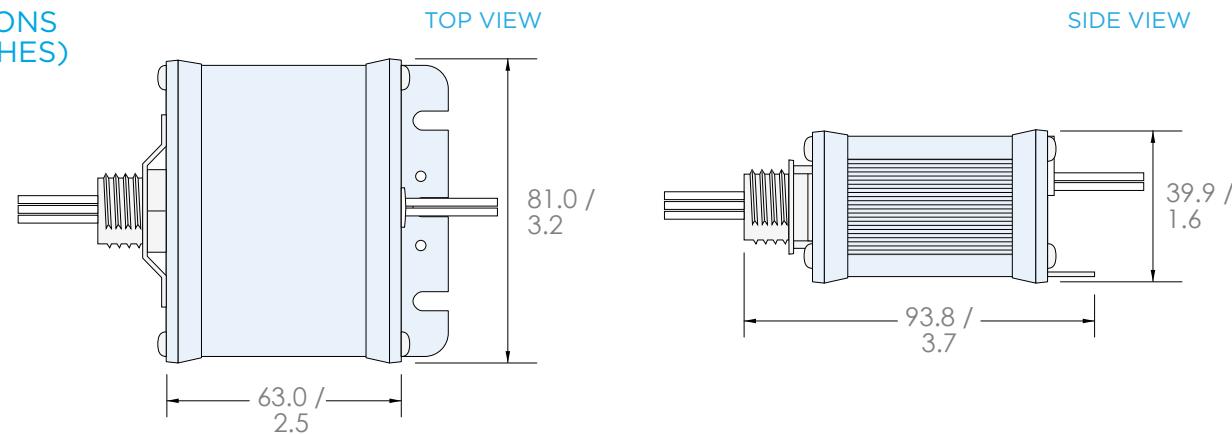
LED



PERFORMANCE

Our DALI Field Relays are equipped with advanced switching technology that offers reliable operation for years to come.

DIMENSIONS (MM/INCHES)



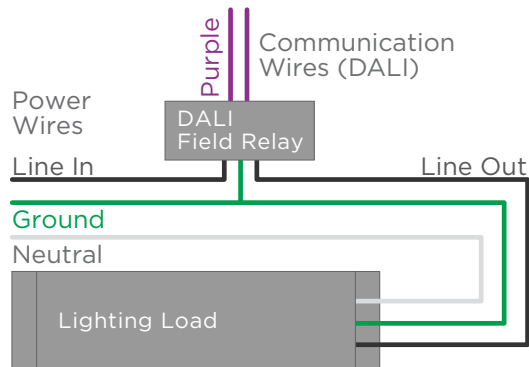
Fifth Light's DALI Field Relay uses advanced switching technology specifically designed to handle the large inrush currents and inductive loads found in lighting applications.

MODEL# Ordering Code	FLT-RS-DALI	FLT-HPRS-DALI	CURRENT RATING @ POWER FACTOR				
	10501	10502	AC Input Voltage	0.4	0.7-0.8	1.0	Tungsten
Maximum AC Switching Voltage:	347 V	347 V	347 V	1.0 A	1.5 A	1.5 A	N/A
Maximum Switching Current:	See Table 2	20 A	277 V	1.5 A	2.0 A	2.0 A	N/A
Rated Number of Switches:	1,000,000	1,000,000	240 V	2.5 A	3.0 A	3.0 A	1.5 A
DALI Current Draw:	3.75 mA	3.75 mA	120 V	4.0 A	4.5 A	4.5 A	4.5 A
DALI Input Voltage:	9.5 V - 22.5 V	9.5 V - 22.5 V					
Ambient Temperature:	0°C to 70°C	0°C to 70°C					

TABLE 1

TABLE 2

ELECTRICAL CONNECTIONS



STANDARDS

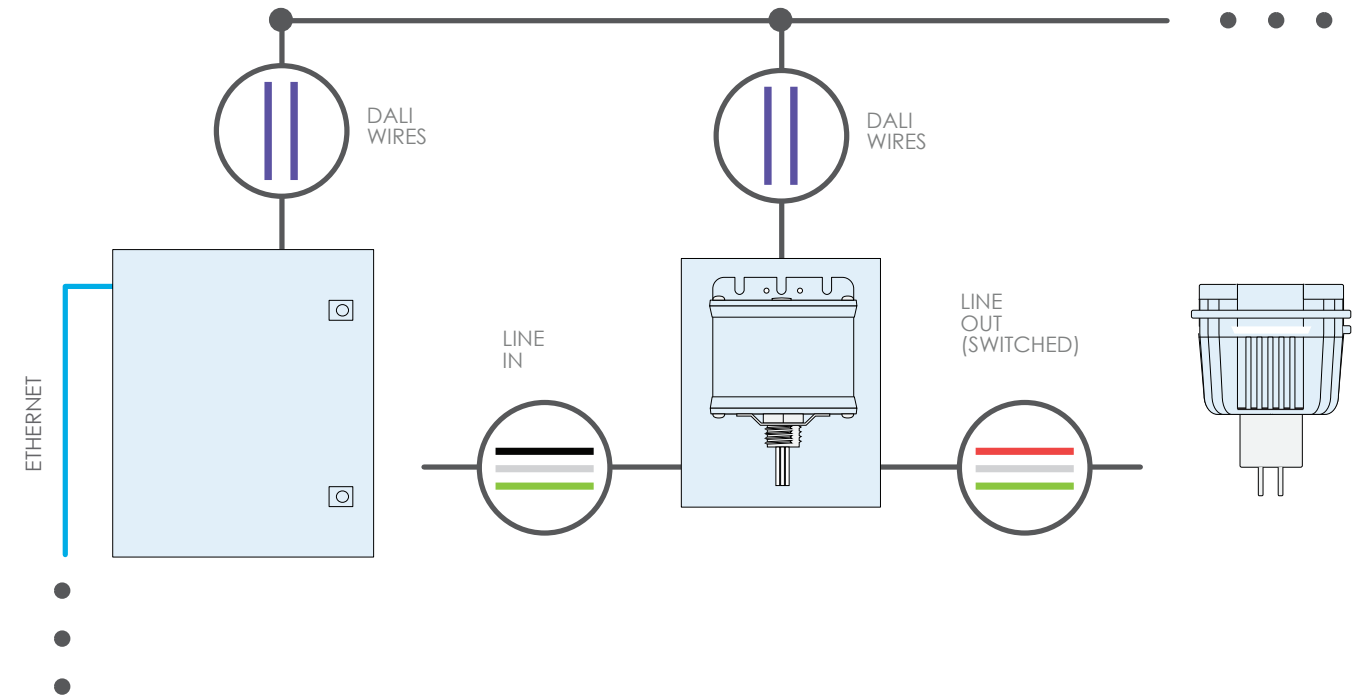
- CSA C22.2 No. 0-M91 (R2001) - General Requirements Canadian Electrical Code, Part II
- CSA C22.2 No. 14-05 - Industrial Control Equipment
- ANSI/UL Std No. 508 - Industrial Control Equipment

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 Field Relay defaults to the closed (on) position when power is lost to its DALI communication bus. To use the DALI Field Relay 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 Field Relay to an emergency power supply. When power is lost to the non-emergency power supply, the DALI Field Relay will detect the loss of voltage on the DALI communication bus and will automatically close the relay. As emergency power is initiated, current will flow through the DALI Field Relay and to the emergency lighting fixtures. Users will not be able to turn the Field Relay off until normal power is resumed.

DALI COMMANDS

The DALI Field Relay processes all DALI messages and the following DALI (unit, group or broadcast) commands can change the state of the relay:

- Direct Arc Power Control (100%, 0%)
- On and Step Up (when 8 bit control level set 254)
- Off
- Step Up (when 8 bit control level set 254)
- Step Down (when 8 bit control level set 0)
- Step Down and Off (when 8 bit control level set 0)
- Recall Maximum Level
- Recall Minimum Level
- Go to Scene (only if scene level is set to 0% or 100%)
- All Query Commands



CONTACT INFORMATION

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