

L510 Lamp Controller

Overview

The L510 Lamp Controller is designed for the hospitality industry to provide convenient switched and dimming control of several different load types, including; incandescent, CFL and LEDs. By doing this, it converts any standard lamp into a remotely controlled lamp with the ability to create scenic and mood lighting. The L510 is able to participate in Honeywell's overall Energy Management System (EMS) to provide energy savings along with enhanced guest experience.

A typical application would include a L510 controlling scenic lighting around a headboard of a guestroom bed. To provide this control, the L510 is equipped with an INNCOM WBI relay, Triac or FET actuator and communicates via the on-board 2.4Ghz radio over the INNCOM DeepMesh network. The L510 which is controlling the lamp can be controlled by an INNCOM MODEVA or EVORA switch as well as also be controlled locally. Other applications include; desk and floor lamp control as well as wall sconce control.



Figure 1 L510 Lamp Controller

Part Numbers

PART NUMBERS	DESCRIPTION
201-7050	Relay Actuator RF Lamp Controller, 120-240VAC, 500W
201-7051	Triac Dimmer RF Lamp Controller, 120VAC, 650W
201-7052	FET Dimmer RF Lamp Controller, 120VAC, 350W

System Layout

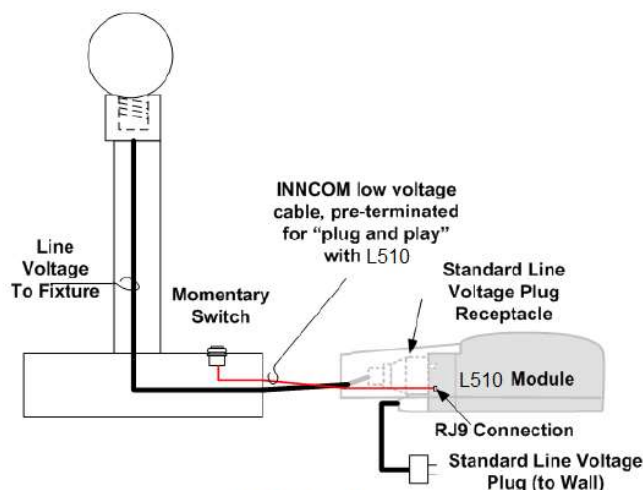


Figure 2 L510 Local Lamp Control

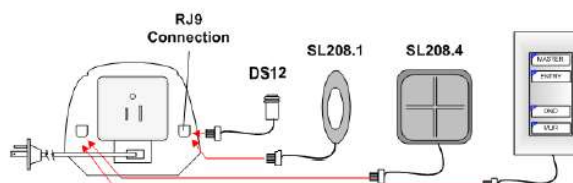


Figure 3 L208 Alternate Switches

Load Ratings

Model	Voltage	Freq	Rating Power / Amperes	Type of Load
201-7050 (Relay)	120-240 Vac	50/60 Hz	4.1 A	Resistive
	120-240 Vac	50/60 Hz	4.1 A	General Purpose
	120-240 Vac	50/60 Hz	500 W	Tungsten / ELV
	120-240 Vac	50/60 Hz	250 VA	Electric Ballast
201-7051 (Triac)	120-240 Vac	50/60 Hz	1/10 HP	Motor
	120 Vac	60 Hz	2.9 A	Resistive
	120 Vac	60 Hz	2.9 A	General Purpose
	120 Vac	60 Hz	650W	Tungsten / ELV
	120 Vac	60 Hz	250 VA	Electronic Ballast
201-7052 (FET)	120 Vac	60 Hz	1/10 HP	Motor
	120 Vac	60 Hz	2.9 A	Resistive
	120 Vac	60 Hz	2.9 A	General Purpose
	120 Vac	60 Hz	350 W	Tungsten / ELV
	120 Vac	60 Hz	250 VA	Electronic Ballast

Product Specification

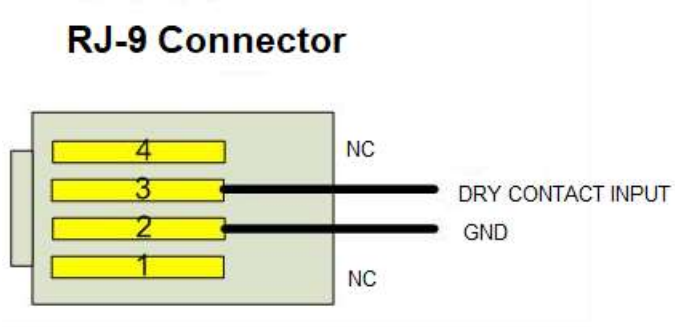
Parameter	Specification	Range / Value
S5 Bus	Data Rate	2550bps
	Range	50ft
	Max Nodes	20
DeepMesh RF	Range	70ft
	Transmit Power	+5dBm
	Receive Sensitivity	-95dBm
	Protocol	IEEE 802.15.4
	Frequency Band	2405MHz – 2480MHz
	Channels	11-26
I/O	Digital input / outputs	2 dry contact inputs / UART pins
Power	Input Voltage	120Vac
	Device Power Consumption	12VDC, 100mA
	Max DC Power	200mA (100mA available to power external device on 12Vdc)
Environment	Operating Temperature	0 -30C
	Storage Temperature	-10 – 50C
	Humidity	10 – 90% RH, Non-condensing
Approvals	CFR47 FCC Part 15.247 Subpart C	
	CR47 FCC Part 15 Subpart B	
	RSS-247 Issue 2	
	ICES-003 Issue 6	
	RSS-Gen Issue 5	
	Rss-102 Issue 5	

RJ-12 Low Voltage Connector



Pin	Typical Color*	Function
1	White	GND
2	Black	+12V
3	Red	S5 Bus
4	Green	INPUT 1 / UART- Tx
5	Yellow	INPUT 2 / UART - Rx
6	Blue	NC
*Wire colors may differ		

RJ-9 Switch Connector



Conformance statement

FCC ID: GTC-201705X

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IC: 1609A-201705X

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Wiring



CAUTION

- Only a trained, experienced service technician should install the L510. Before beginning, the installer should check the ratings given in the instructions and on the product to make sure the product is suitable for the application.
- The installer must disconnect the AC from the drape motor power supply before beginning the installation to prevent electrical shock or equipment damage.
- All wiring must comply with local codes and ordinances.
- The L510 is intended for INDOOR USE ONLY.
- It is important to read the instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.

Ordering Specifications

Model #	Description
201-7050	L510 – Relay Lamp Controller
201-7051	L510 – Triac Lamp Controller
201-7052	L510 – FET Lamp Controller

Document Revision History

REVISION	DATE ISSUED	REASON
V0.2	12 -Feb-2021	Added IC / FCC ID