

Limited Warranty

LEVITON LIGHTING CONTROL DIVISION of Leviton Manufacturing Co Inc. warrants its Dimmer Systems and Controls to be free of material and workmanship defects for a period of two years after system acceptance or 26 months after shipment, whichever comes first. The Z-MAX Relay cards are covered for a period of Ten (10) years. Lighting fixtures manufactured by Leviton are covered for a period of one year. This Warranty is limited to repair or replacement of defective equipment returned Freight Pre-Paid to Leviton Lighting Control Division at 20497 SW Telson Ave., Tualatin, Oregon 97062, USA. User shall call 1-800-959-6004 and request a return authorization number to mark on the outside of the returning carton, to assure that the returned material will be properly received at Leviton. All equipment shipped back to Leviton must be carefully and properly packed to avoid shipping damage. Replacements or repaired equipment will be returned to sender freight prepaid. F.O.B. factory. Leviton is not responsible for removing or replacing equipment on the job site, and will not honor charges for such work. Leviton will not be responsible for any loss of use time or subsequent damages should any of the equipment fail during the warranty period, but agrees only to repair or replace defective equipment returned to its plant in Tualatin, Oregon. This Warranty is void on any product that has been improperly installed, overloaded, short circuited, abused, or altered in any manner. Neither the seller nor Leviton shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the equipment. This Warranty does not cover lamps, ballasts, and other equipment which is supplied or warranted directly to the user by their manufacturer. Leviton makes no warranty as to the Fitness for Purpose or other implied Warranties.

For Technical Assistance Call:
1-800-959-6004
www.colorlink.com
www.leviton.com

Installation Requirements

The switches are wired using analog wiring, requiring 1 wire for each switch leg, 1 optional wire for each LED indicator within each switch (if desired), 1 optional wire for the locator LED and 1 wire for the device for common or +24V.

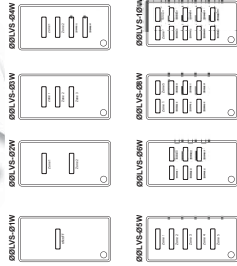
As this is an analog system, any system topology is allowed. Additionally, the low voltage switch can provide connections to common or +V upon a switch closure.

Typical connections to the device are as follows:

- The "S₋₋₋" terminals are connected to the +24V/CM terminal when the switch is depressed.
- The LED inside each switch illuminates when the "L₋₋₋" terminal for the switch is connected to either +10-24V or Common (the opposite of that connected to the +24V/CM terminal).
- The "LOC"ator LED is illuminated when it is connected to either +10 - +24VDC or Common (the opposite of that connected to the +24V/CM terminal.)



Low Voltage Switches



LIT-32712-00 Rev B
2/8/2005

Current Draw

At 24 VDC, each LED on the station, both those in the buttons and the locator LED requires approximately 7.5mA. Therefore the total load of each station is as follows:

Station	Unit Load Consumption @ 24Vdc 1 Unit Load = 25mA	
	Without Locator LED Hooked Up	With Locator LED Hooked Up
1 Button	0.3	0.6
2 Button	0.6	0.9
3 Button	0.9	1.2
4 Button	1.2	1.5
5 Button	1.5	1.8
6 Button	1.8	2.1
8 Button	2.4	2.7
10 Button	3.0	3.3

NOTE Remember to verify that the source of the power for the low voltage stations is adequate in size for the number of buttons and stations you have connected to it.

Precautions and Requirements

All standard precautions for wiring traditional low voltage control devices apply:

1. The cable should not pass near any source of electrical noise or interface such as fluorescent circuits or motor wiring.
2. Close proximity to any AC wiring should be avoided.
3. All analog wiring shall be in it's own conduit.
4. Any wire type capable of carrying the required voltage and current may be used
5. Observe standard voltage drop calculations to ensure that no less than +10 volts are received by the station Less than +10V and the LED's will not be bright enough to be seen or if voltage is quite low, may not light at all.

Terminal Connection Types

Depending on the needs of your equipment, the low voltage switch will support either closed circuit connection to common, or closed circuit +V. The chart below lists the options and requirements for the L₋₋₋, LOC, and +24V/CM terminals.

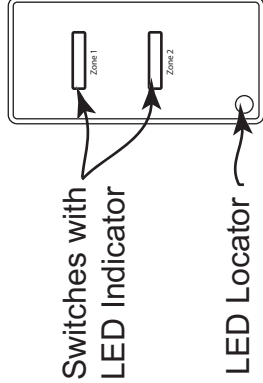
Terminal Cable	Function	RECOMMENDED WIRING METHOD Expected connection at the "other end"	Z-MAX Terminal*	OPTIONAL WIRING METHOD Expected connection at the "other end"
+24V/CM	Input	+24Vdc	+24	Common
S1	Switch 1, Switch Output	+24Vdc, when switch pressed	SWx IN	Common, when switch pressed
L1	Switch 1, LED Input	Common, when LED is to be illuminated	SWx OUT	+24Vdc when LED is to be illuminated
LOC	Locator LED	LED Lights when connected to Common	COM	LED lights when connected to +24Vdc

NOTE S1, L1 terminals: Cross reference the "1" with the button number on the label.

NOTE * If Connecting to a Z-MAX relay cabinet, connect to the terminal as indicated, using the recommended wiring method.

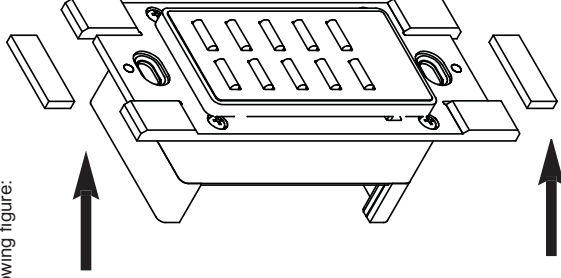
Introduction

The Low Voltage Switches are a variant on the traditional low voltage switch. They provide a switched momentary contact which closes a low voltage circuit when the switch is depressed and provides optional feedback to the user through an LED contained within each button. Additionally, each station has a rear illuminated "locator" LED in the lower left hand corner.



Wiring and Installation

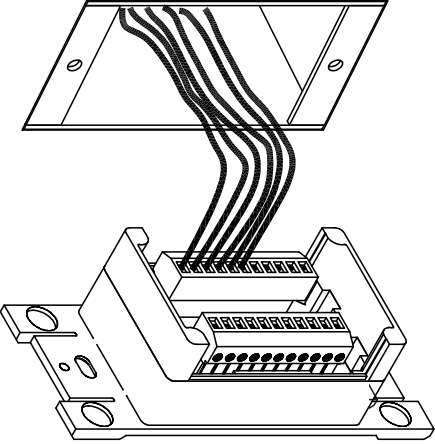
Step 1: If using a Decora Plus screwless wall plate, remove the center tabs from the device as shown in the following figure:



Wiring and Installation

Step 2: Terminate the wiring to the appropriate terminals on your low voltage switch as is required for your application. See the table on page 5.

Step 3: When all wires have been terminated, gently stuff the wires back into the junction box in the wall.



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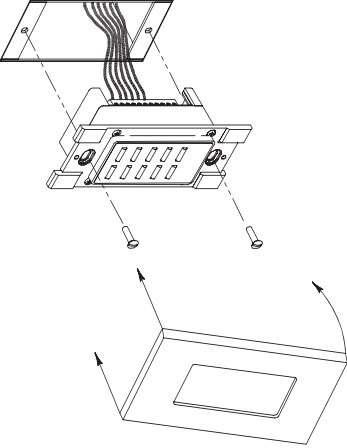
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Wiring and Installation

Step 4: Securely mount the station to the wall using the provided screws.

Step 5: Mount the wall plate to the station.



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Programming / Operation

All System Programming, individual switch configuration, and other device configuration options is performed at the device to which your switch is connected.

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