



# Low Voltage Switch

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Install Guide : Page 1

## Hardware Installation and Setup Instructions



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## Attention

This section serves as a notice of the immediate or potential dangers involved when working with the equipment described throughout this manual. Any person involved in installation, maintenance, or service of the equipment should first carefully examine the equipment and read the instructions contained in this manual to ensure that personal and/or equipment injury is avoided.

The following safety messages appear throughout this manual to alert of immediate or potential danger to life as well as property.

	<b>NOTE</b> : Indicates an important note.
	<b>TIP</b> : Indicates a helpful tip or trick.
	<b>SAFETY REMINDER</b> : Applicable safety instructions will be included with this symbol.
	<b>DANGER</b> : Indicates an immediately hazardous situation which, if not avoided, will result in serious injury or death.
	<b>WARNING</b> : Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or death.
	<b>CAUTION</b> : Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

## Disclaimer

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designated to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Instructions contained in this user's guide should be performed only by qualified persons in accordance with local and national codes. Blue Ridge Technologies International, LLC and its affiliates assume no responsibility for any consequences related to the improper use of this manual.

## Overview : Document

This document provides mounting and connection instructions for the following Blue Ridge Technologies Low Voltage Switch (LVS) products :

- LV-SW1
- LV-SW2

These LVS models are compatible with Retrofit Interior (RI), Retrofit Kit (RK), Relay Panel (RP), Satellite Control (SC), and Zone Control (ZC). Sections of this Install Guide apply to optional equipment and may not be applicable. For digital and universal input configuration refer to the Application Guide.

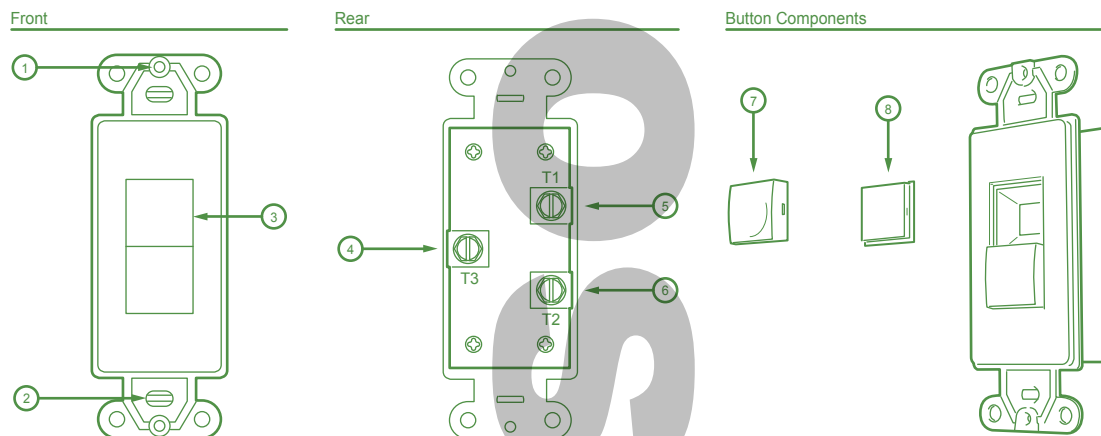
## Overview : Component

The LVS includes the following items :

- 1 - LVS
- 2 - 6-32 x ¾ Screws

## Overview : Assembly

1. Wall Plate Fastener Point
2. Mounting Fastener Point
3. Button
4. Common Terminal (T3)
5. Switch 1 Terminal (T1)
6. Switch 2 Terminal (T2) (Not applicable on LV-SW1)
7. Button Cap
8. Button Label Surface



(Figure 1)

## Button Labeling

LVS Button Label Surface provide 0.5"(13mm) square area for labeling. Button Caps may be removed for labeling at any stage of installation.

1. Remove the desired Button Cap by gently gripping the cap with linesman pliers and pulling outward.
2. Separate the Button Label Surface by inserting small flat blade screw driver in the notch at the Button Cap's base and twisting.
3. Apply label to front of Button Label Surface.
4. Reassemble LVS.



Disconnect power before performing LVS installation.

All circuits must be tested for wiring errors and shorts prior to LVS installation.

Before handling any LVS components, the technician should be grounded to prevent circuit board damage.

## Connection

### Electrical Specifications

Maximum Voltage: 24VDC

Connection: 3 Screw Terminals (Switch 1, Switch 2, and Common)

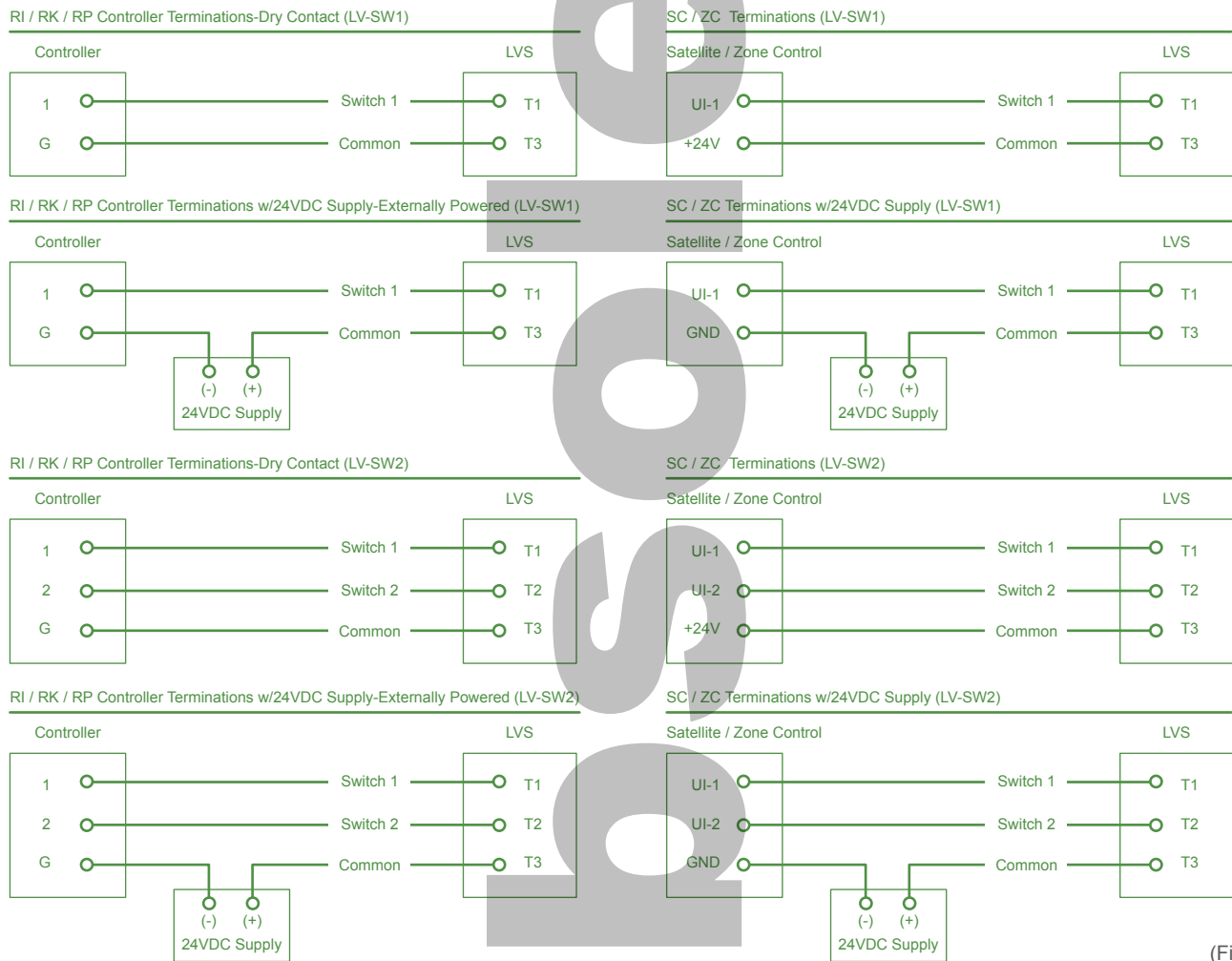
### RK / RI / RP Digital Input:

Jumper Configuration: 8 input segments, dry contact (N) or 24VDC externally powered (R)

Wire Requirement / Maximum Length: 18AWG (Solid or Stranded) / Dry Contact 500'(152m) or externally powered 1,000'(304m)

### SC / ZC Universal Input:

Universal Input Wire Requirement / Maximum Length: 18AWG (Solid or Stranded) / 500'(152m)



(Figure 2)

## Mounting

LVS is now ready to be mounted to the switch box.

1. Position LVS in the switch box.
2. Fasten to switch box with the 2 provided #6/32 screws.
3. Install cover plate.

## General Specifications

Mounting: Standard single gang or multi-gang switch box, (2) #6/32 screws (included), and Decorator style wall plate (not included)