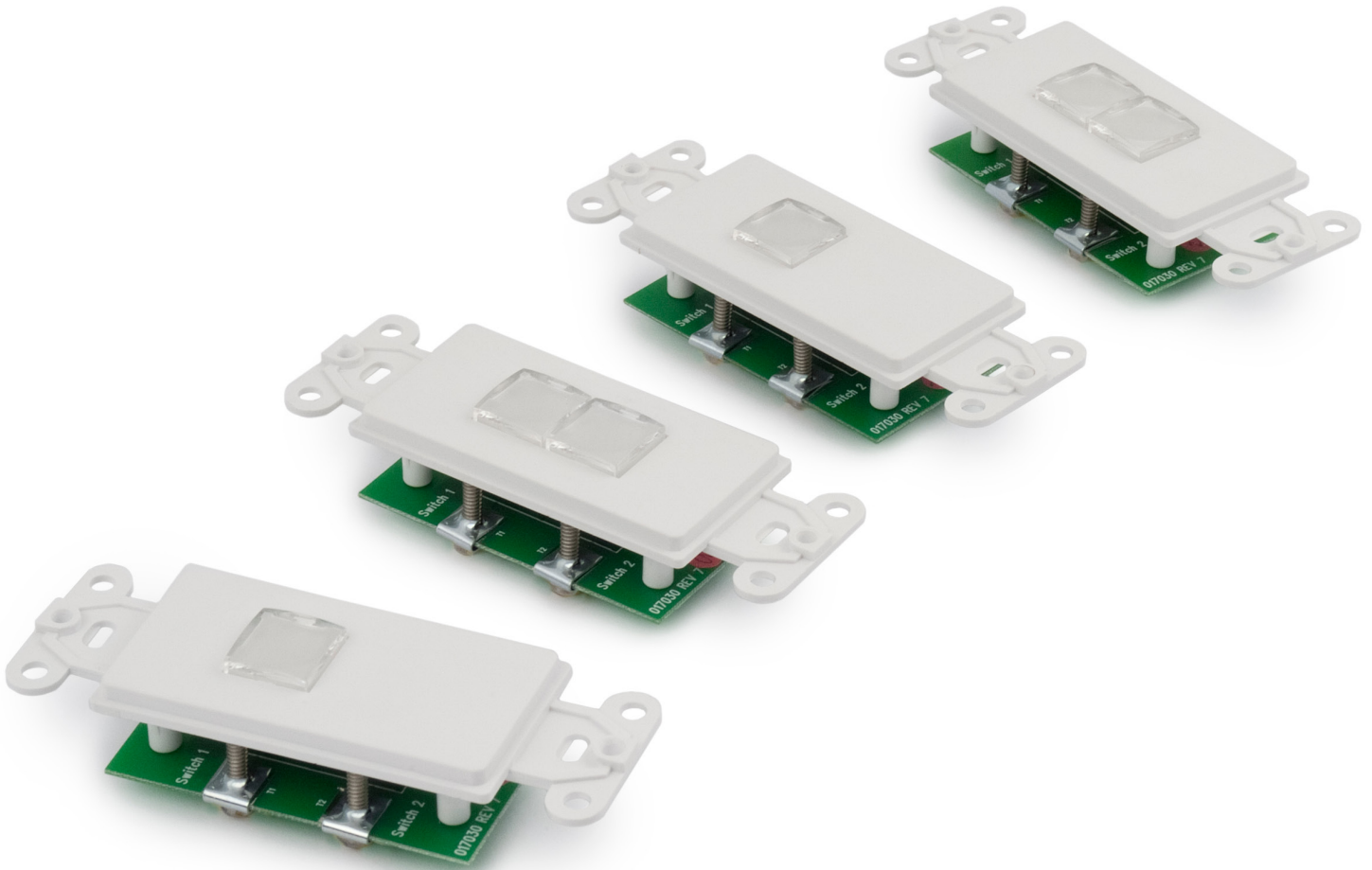


## Connection and Mounting Guidelines



## 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.



**Note** : Indicates an important note.



**Tip** : Indicates a helpful tip or trick.



**Safety Reminder** : Applicable safety instructions will be included with this symbol.



**DANGER** : Indicates an immediately hazardous situation which ,if not avoided, will result in serious injury or death.



**WARNING** : Indicates a potentially hazardous situation which ,if not avoided, may result in serious injury or death.



**CAUTION** : 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.



# BR Series Low Voltage Switch

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## Document Overview

This document provides guidelines for connection and mounting of the following Blue Ridge Technologies products :

Low Voltage Switch (LVS)

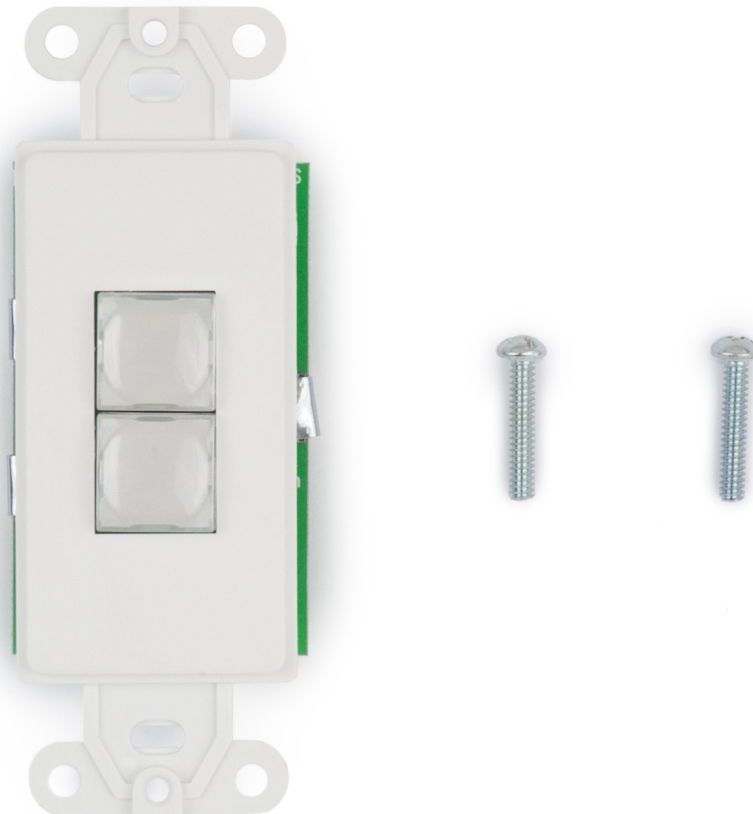
For Lx5 termination locations and configurations refer to the Lx5 Hardware User Guide. Applies to Relay Panel (RP), Retrofit Interior (RI), and Retrofit Kit (RK).

For Zone Control (ZC) termination locations and configurations refer to the ZC Install Guide.

## Component Overview

LVS includes the following items (Figure 1):

- 1 - Low Voltage Switch
- 2 - Machine Screws (6-32 x 3/4 )

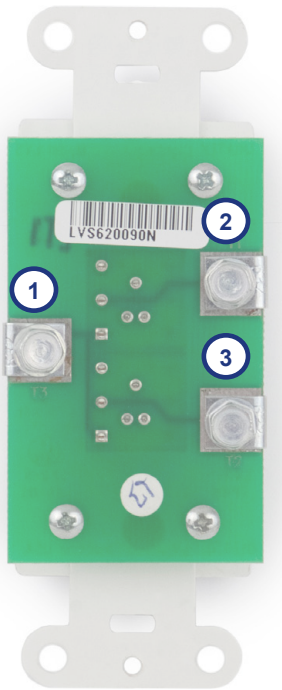


(Figure 1)

## Identification and Features

LVS has three screw terminals. (Figure 2)

1. Common / Ground
2. Signal Button 1
3. Signal Button 2 (Not used on one button switch)



(Figure 2)

## Mounting Requirements

Standard single or multiple gang wall switch box  
Decora type cover plate (6mm or thicker)

## Button Labeling

LVS Button Cap Interiors 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 Cap Interior 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 Cap Interior.
4. Reassemble LVS.

## Connection Specifications

Wire Requirement : 18 AWG (Solid or Stranded, non twisted, un-shielded wire only)  
 Dry Contact Maximum Wire Length : 500 ft  
 Externally Powered Maximum Wire Length : 1000 ft

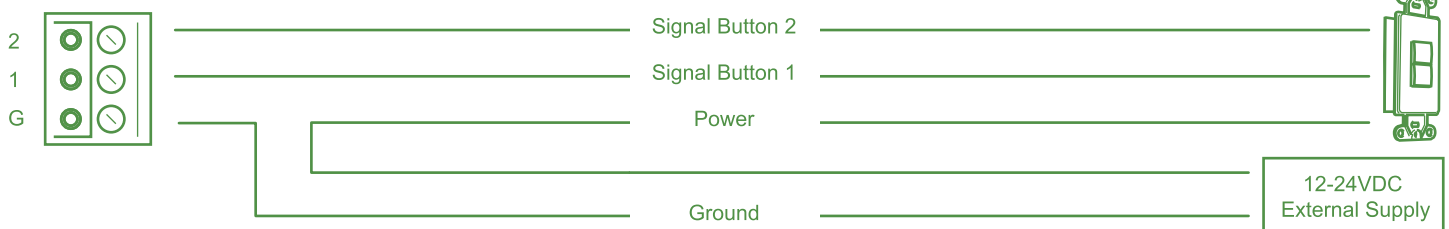
### Wiring Diagram :

Relay Panel, Retrofit Interior, and Retrofit Kit (Figure 3)<sup>1</sup>  
 Zone Control (Figure 4)

#### Switch Input : Dry Contact



#### Switch Input : Externally Powered

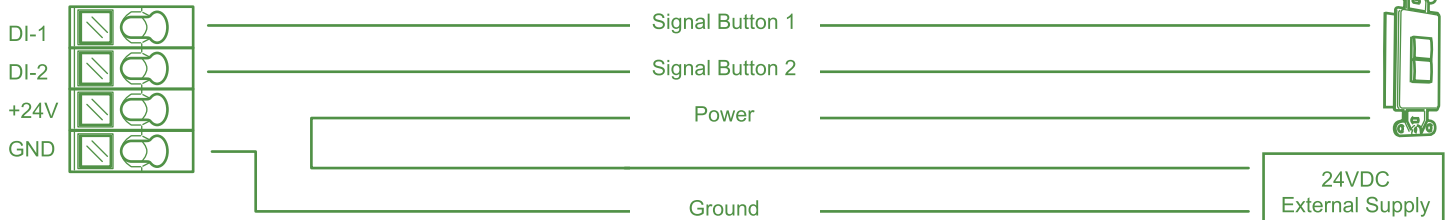


(Figure 3)

#### Digital Input : Dry Contact



#### Digital Input : Externally Powered



(Figure 4)



<sup>1</sup> Controller Switch Inputs are configured in 8 Input segments, entire segment must be either Dry Contact or Powered.