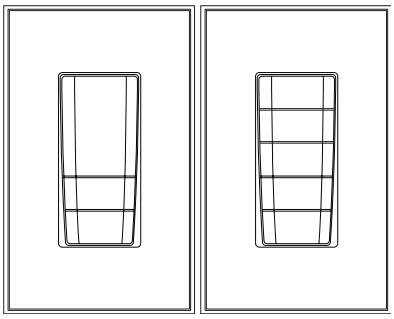
VANTAGE

RadioLink® EasyTouch II ScenePoint Dual Relay
Installation Instructions • Instructions d'Installation • Instrucciones de Instalación

No: IS-0472 – 12/22 rev. 2

RDRXXX-XXXX • Les Numéros de Catalogue • Los Números de Catálogo:

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China



OVERVIEW

The RadioLink EasyTouch II ScenePoint DR (dual relay) station is a single gang wall box configuration containing two relays. Station design includes the ability to learn travel time of shade motors through Design Center software, allowing the ability to place shades at any position from fully open to fully closed. RadioLink ScenePoints are powered via the local line feed, and communicate with the system via a radio transceiver. Before the station is programmed, the relays function in default mode as independent toggle relays or *interlocked* toggle relays. Once the station is programmed, buttons can perform any operation that a standard station supports. The station's loads may be controlled by any other keypad, IR input, RS 232, timed event, etc. EasyTouch II DR relay stations are available in two through five button configurations, single gang. Stations may be ganged together in any combination up to 4-gangs. Switch between interlock and non-interlock operation modes via a switch located on the back of the station (station is shipped in interlocked mode).

The EasyTouch II Scene-Point DR relay station joins Vantage's premiere line of backlit stations. Each button is evenly backlit with a built in diffuser and three color LED providing an array of color choices*, lighting *only the lettering* on each button. The backlit lettering color also indicates the button's status. Programming provides the user with the option to personalize the color for ON and OFF status. Additional custom status colors may be programmed as desired. The EasyTouch II also features an ambient light sensor for automatic day/night backlight intensity control* and a built-in IR receiver. See Design Center software for EasyTouch II ScenePoint faceplate and button finishes.

NOTES TO INSTALLER**

EASYTOUCH II LEDs
Current technology does not allow LED suppliers to guarantee color values. It is common to have a slight difference among LEDs, however, this is not too noticeable with backlit engraving. Historically, blue and red LEDs are more consistent than green LEDs. Because of this slight variation it is recommended that one or two stations be *pre-programmed* with the colors the client is requesting and that these stations be shown to the client for their final approval before ordering and installing.

EASYTOUCH II AUTO BACKLIGHT: ISSUE
The Auto Backlight feature for EasyTouch II will not change all stations at the same time.

EASYTOUCH II AUTO BACKLIGHT: DESCRIPTION
EasyTouch II incorporates a built-in light sensor. When enabled through Vantage software the sensor will change the brightness of the button LEDs. For example, in normal light the buttons would be bright. In extremely low light conditions, as at night time with all the lights off, the buttons would be dimmed to a very low level. Many conditions lend to the phenomenon of keypads not changing at the same time. The location of each keypad is primary. In multiple gang situations more light may be on one part of the multi-ganged station causing the auto backlight feature to operate differently in that section of the multi-gang. Many other lighting factors, even less noticeable to the human eye, can affect, auto backlight sensors, intended results.

EASYTOUCH II AUTO BACKLIGHT: SOLUTION
Because manufacture variations are inherent in light sensors and the conditions mentioned above are inevitable, it is not always practical to use the Auto Backlight feature. This feature may be turned off in Software. If the Auto Backlight feature is not working as the client and installer intends, Vantage Controls recommends using one of the following two suggestions to control the brightness of EasyTouch II buttons.

1. Edit the LED style for EasyTouch II buttons by creating two Modes*. Each mode can use the same ON/OFF colors at very different intensities. Create two Time Controls. One for Sunrise and one for Sunset. Program the time controls to assign the appropriate Mode.

-OR-

2. Create the two Mode LED style as described in step one. Install a Vantage light sensor and program the light sensor to change the modes of all the EasyTouch II stations at once in an area.

SPECIFICATIONS

Description	Specification
Dimensions, Station HWD	4.3” x 2.5” x 1.38” (109mm x 64mm x 35mm)
Weight, One-gang	4.9oz (139g)
Voltage	120/240V ~ 60/50Hz
Max Load Each Relay	5A (600W @ 120V) General Purpose 5A (600W @ 120V) Ballast 5A (600W @ 120V) Tungsten 5A (600W @ 120V) Drapery Motor 5A (600W @ 120V) Fluorescent
Minimum Load	Required: 0W
Load Types	Incandescent, Cold Cathode, HID, Fluorescent, Constant-Speed Motors
Built-in Lighting / Surge Protection	MOV surge suppression High-Voltage meets IEEE C62.41 (6000V & 3000A) Low-Voltage meets ITU-T K.20
Cooling	None required
Backlit Buttons	3 Color LEDs
Auto LED Intensity	Yes, Built-in/standard
IR Receiver	Yes, Built-in/standard
Status Indicator	Microprocessor Status LED
Station Equivalent	Counts as one RadioLink Station
Ambient Operating Temperature	32 - 77°F (0 - 25°C)
Ambient Operature Humidity	5 - 95% Non-condensing
UL, CUL and FCC Listed	Yes

SYSTEM REQUIREMENTS

InFusion Design Center Software must be used to program the station. The InFusion System must be RadioLink enabled using the RFE1000 RadioLink Enabler from Vantage.

INSTALLATION

Installation of Vantage products should be performed or supervised by a *Certified Vantage Installer. Turn the circuit breaker off and make sure no voltage is present where the relay station is to be mounted.* Damage caused by failure to disconnect power may void warranty and is a risk to the installer. This station requires Neutral to operate. The Green ground lead must be connected to the structure’s safety ground.

CAUTION: When used as a shade controller only connect one shade per station. Multiple shades connected to one station may not stay synchronized and other malfunctions may occur. **BLIND LIMIT SWITCHES MUST BE SET BEFORE INSTALLING!**

INSTALLATION - MINIMUM BACK BOX DIMENSIONS

Number of Gangs	Minimum Back Box Dimensions
1	2.80”h x 1.80”w x 2.5”d
2*	2.80”h x 3.60”w x 2.5”d
3*	2.80”h x 5.40”w x 2.5”d
4*	2.80”h x 7.20”w x 2.5”d

* ScenePoint dual relay stations are available in one gang models only. Two, three and four gang back box dimensions are calculated by ganging single load stations together.

NOTE: UL requires one-half inch clearance between the back of the station to the back of the back box. Most standard back boxes that have the receiving threads for the device mounting screw inside the box will be adequate. Most back boxes where the receiving threads are outside the box will be too small.

MUD RINGS
If mud rings are specified on a job it is important to test the mud rings for proper fit. Two gang mud rings, in particular, run substantially smaller than back boxes and some brands are not large enough for the station. *The only solution is to test the fit first.*

3-WAY SWITCH APPLICATION
A ScenePoint DR Station may be used in any 3-way application. When installing a ScenePoint DR station, as a 3-way switch, the Red and Red/White (Loads Out) wires are not connected and are properly capped-off.

STATION SET UP IN SOFTWARE
InFusion: In the Project Explorer click on *Style/Profile View*. Right click on *Keypad Styles* and select *Add Keypad Style*. In the Object Editor window fill in all the information for the keypad style including the EasyTouch II *Button Shape* and select SoftLine or TrimLine – Plastic for ScenePoint stations. Remember to check or uncheck the *Auto Backlight* check box to enable or disable this built-in feature. Right click on button style and setup a button style with the button color wanted. While still in *Style/Profile View*, right click on *LED Styles* and fill in the appropriate information in the *Object Editor* for EasyTouch II LEDs – Red/Green/Blue with ON and OFF colors. Next select the room, then click on *Vantage Objects* in the *Object Explorer* and expand *Stations, RadioLink*. From the list of stations double click on the *ScenePoint DR Station* to place it in the room. In the Object Editor, name the station and make sure it is on the correct RadioLink bus.

CONFIGURATION
RadioLink stations need to be configured to associate which physical station goes with the station in software. When the station is initially powered-up, the Status LED will blink three times followed by a pause - this means the station is powered correctly but not yet on the network. ***Before*** uploading the file to the Vantage system, do the following: From Design Center, click in the *Serial Number* section in the *Object Editor* and type in the serial number. Manually enter the serial number for each RadioLink station to match it with the corresponding programming.

The serial number of each station is located on a permanent sticker and a removable sticker* on the front of the station. Remove the sticker with the number only and place on the Station Design Report for easy reference when programming. The Main Controller will add to its network and configure all the RadioLink stations that it has serial numbers for. This may take several minutes depending on the number of RadioLink stations on the network. The Status LED will remain off when a station has been added to the network and configured.

*If a serial number begins with “A”, do not use the letter “A” when manually typing serial numbers into the Design Center file.

NOTE: A new feature with Design Center 2.3 and up is the ability to configure RadioLink stations the same way WireLink stations are configured, (e.g., 3-button press). When configuring stations, please note, if the *Exclude RadioLink Bus* check box, under *Settings* | *System Preferences*, is not checked, all RadioLink stations go back to non-programmed mode when the Configure Stations button on the tool bar is clicked. The EasyTouch II station LEDs will all blink between red and off while in configure station mode until configured. After configuring stations and clicking the Configure Stations button again to turn configure stations mode off, all RadioLink stations need to log back on to the system before working as programmed. Allow time for these stations to come back online.

INTERLOCKED, INDEPENDENT OR SHADE OPERATION MODES

Interlocked Mode – SWITCH ON BACK IN LEFT POSITION:
- This provides hardware interlock control between the two relay loads. Both relays are never allowed to be ON simultaneously. Interlock switch on the station must be set to active/Interlocked.

Independent Mode: – SWITCH ON BACK IN RIGHT POSITION:
- Each relay is controlled independent of the other. Both relays may be on at the same time. Interlock switch on the station must be set to inactive/non-Interlocked.

Shade Mode: – SWITCH ON BACK IN LEFT POSITION:
- For shade mode the Interlock switch on the station must be set active/Interlocked. Limit switches must be properly setup on shade motors. Station must be programmed as a Shade Controller in Design Center.

CHANGING OPERATION MODE OF STATION
If any station has been programmed as a Shade control or two independent relays and the mode or operation is changed, set the interlock switch and reset the station ***before*** re-programming in Design Center. Please see *Reset* next page.

SHADE CONTROLLER

SHADE CONTROLLER
In this mode the station has the ability to track and set blinds to specific positions. *Limit switches must already be set before doing the following.* Once programmed as a shade controller in Design Center the blind should be executed to fully OPEN and then fully CLOSED positions. This ***teaches*** the station the limits of the blind it is controlling. When the station has learned the full open and full closed positions it can then be moved to any position wanted. For example to move the blind to its middle position simply program a task in Design Center to set the blind at 50%. It is also possible to assign the blind to a slider on a TPT touchscreen. The blind may be set to any position by moving the slider.

SELF-CALIBRATING
As stated above, when the shade is newly installed it must calibrate itself by having the shade go to a limit (set on the motor) and then go directly, without stopping, to the other limit. The station measures the time this travel takes and uses this time to determine settings between the limits. Every time the shade goes directly from one limit to the other limit it will resave the travel time preventing errors if the shade changes speed over time or new fabric is installed or if the station is moved to a different shade etc.

Shades will travel at slightly different speeds when opening vs. closing. This causes a normally small uncompensated error on the position of the shade. If precise positioning is required, such as to match positions of multiple adjacent shades, the ILT controller with ILT motors should be used instead of this shade controller.

REVERSE SHADE
NOTE: If the shade is moving in the wrong direction due to the motor wires being reversed or the fabric is wound in the opposite direction as expected on the roller, the direction can be reversed by setting the Reverse Shade direction in Design Center preventing the need to rewind the fabric or rewire the station.

DEFAULT MODE

The RadioLink EasyTouch II station has a default mode that operates without programming or being connected to the Vantage System. After a power outage the loads will be off even if they were on before power was lost. If the station has power but communication with the controller is lost the station will revert to default operation, (i.e., toggling the load directly connected to the station), however the interlock switch will still respond to its current position, active or inactive. At final assembly, switches 1 through 3 control relay 1 and switches 4 and 5 control relay 2 until programmed.

DEFAULT BUTTON CONTROL

Number of Buttons	Relay 1	Relay 2
2	Button 1	Button 2
3	Button 1	Buttons 2 and 3
4	Buttons 1 and 2	Buttons 3 and 4
5	Buttons 1, 2 and 3	Buttons 4 and 5

DEFAULT IR MODE
EasyTouch II ScenePoints have a built-in IR receiver. The default IR mode that is active before the station is programmed or if the station is offline is explained below. This is also dependent on the status of the Interlock switch on the back of the station. When Vantage IR Scene Code 230 is transmitted from the Vantage IR Remote Control, local ScenePoint load one will toggle ON and OFF. When Vantage IR Scene Code 231 is transmitted from the Vantage IR Remote Control, local ScenePoint load two will toggle ON and OFF. If the station is in Interlock mode then turning either load ON will turn the opposite load OFF if it is already ON.

RESET
The station stores the configuration data locally so that it will continue to operate if communication with the system is lost. This information includes: LED properties and sounder properties. To reset this information to the factory default, press and hold switches 1, 2 and 3 while power is applied to the station. The status LED flashes briefly, indicating that the reset took place. After a reset, the loads will be off and the LEDs will change to Blue for ON and White for OFF. If the station was used as a Shade Controller the Full Open and Full Closed positions must be re-learned by fully opening and then fully closing the blind without stopping.

REMOVING METAL TABS
Removal of metal tabs allows ganging with other ScenePoint Stations or third party devices.

DIAGNOSTIC INFORMATION

The Status LED can be seen behind the sensor light bar. The sensor bar is just between the bottom two buttons. The Status LED is off or blinks 2, 3, 4 or 5 times followed by a pause to indicate status information.

OFF: The station is programmed and configured, or the station is not powered, a line voltage connection has not been made or the line feed breaker is off.

TWO BLINKS: Station has logged on to Controller but is not initialized. If two blinks persist more than five minutes, the station should be reset. See Reset above.

THREE BLINKS: Station is not added to the network. Verify that its serial number has been programmed into the Main Controller using Design Center or QLink and that the station is within 100 Feet of the RFE1000.

FOUR BLINKS: Dimmer problem. Please contact the factory.

FIVE BLINKS: Configuration Mode.

CLEANING BUTTONS AND FACEPLATES

- Turn the breaker to the station OFF
- Dampen a soft cloth in water and wring-out to barely damp – almost dry
- Use a light buffing motion to wipe clean
- Do not take the station apart
- Never spray station with any cleaners

FCC COMPLIANCE INFORMATION

FCC ID: PII-31405

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.

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:

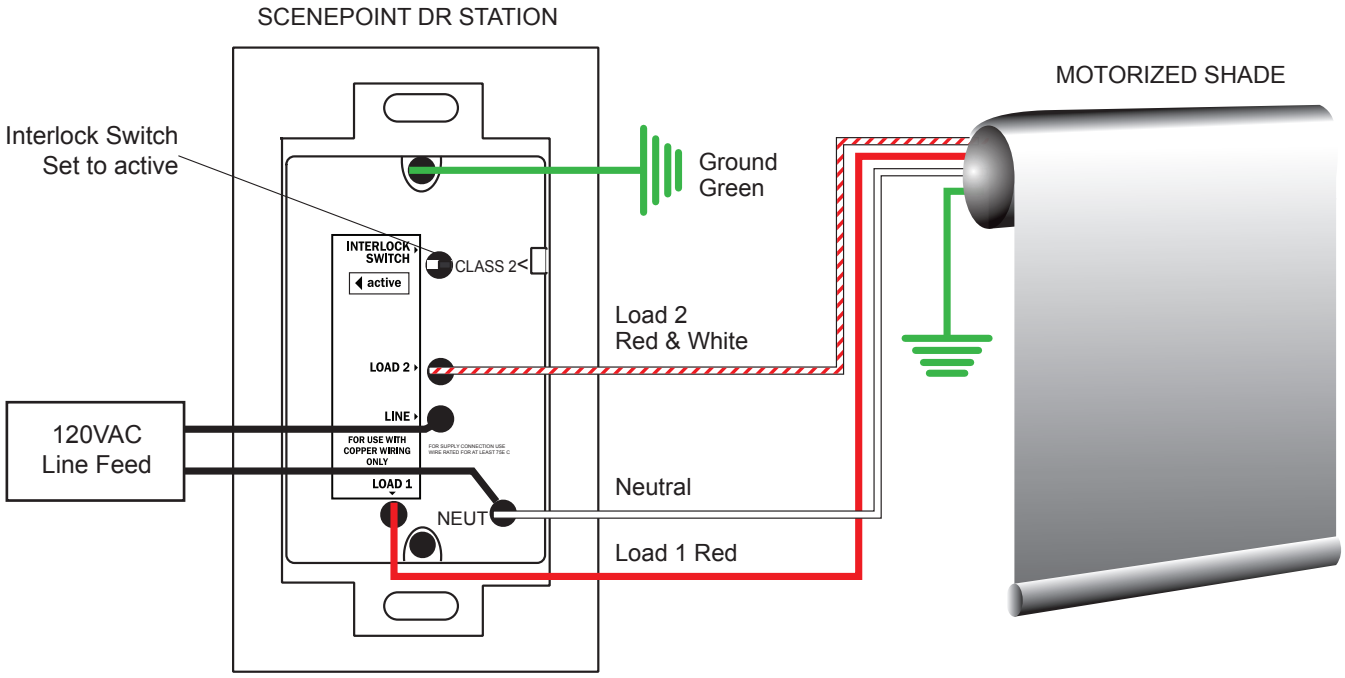
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this product not expressly approved by Vantage Controls could void the user's authority to operate this product.

SCENEPOINT WIRING EXAMPLES

MOTORIZED BLIND WIRING

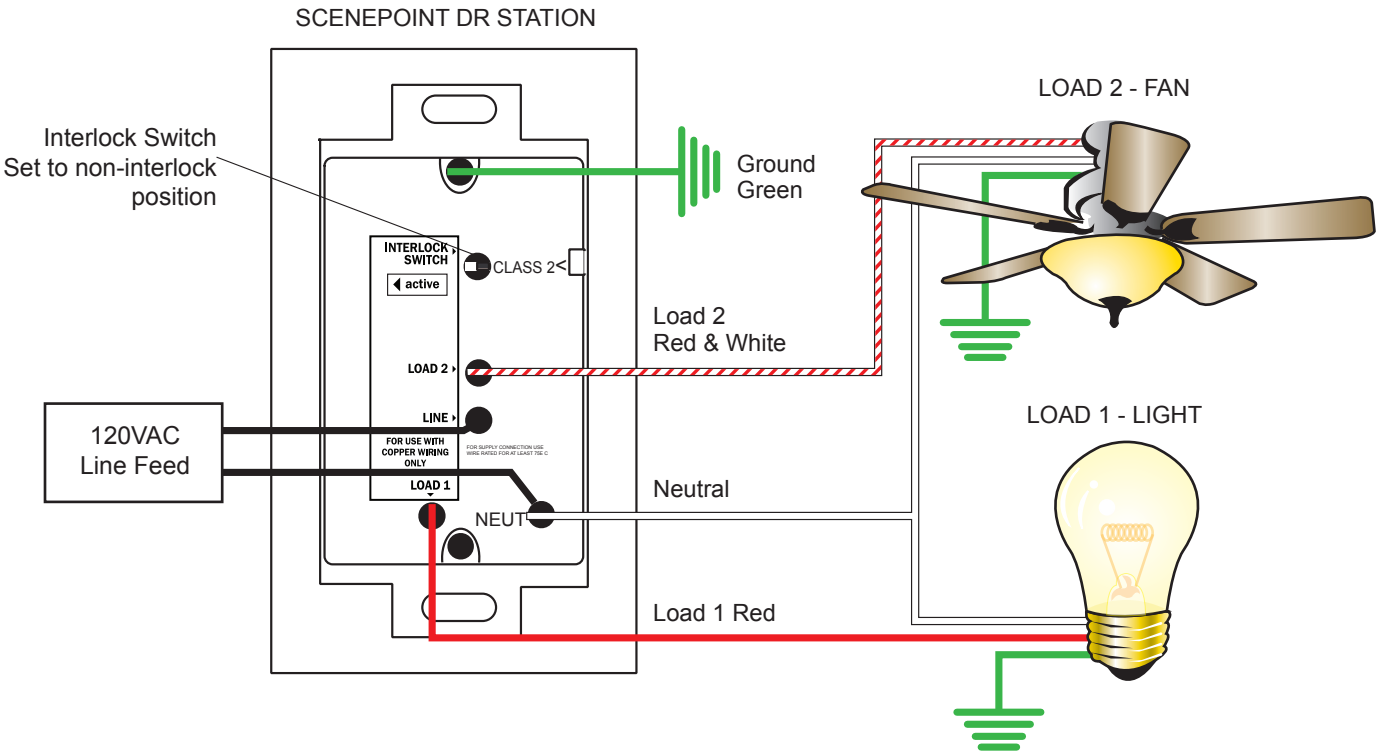
Always disconnect power before wiring the station and shade motor. In this application the Interlock Switch is set to ***active*** or Interlocked. Connect load 1 to the open relay of the blind motor and load 2 to the close relay, or vice-versa. Typically, neutrals are all tied together at the station box. Custom program desired operation in Design Center.



FAN AND LIGHT WIRING

Always disconnect power before wiring the station and station loads. In this application the Interlock Switch is set to inactive or the non- interlocked switch position. Connect relay load 1 to the light and relay load 2 to the fan, or vice-versa. Typically, neutrals are all tied together at the station box. Custom program desired operation in Design Center.

NOTE: The light may not be dimmed in this application.



CHANGING THE NUMBER OF BUTTONS

EasyTouch II dual-relay ScenePoints will support 2 to 5 buttons. The number of buttons may be changed on a keypad after it has been installed by following these instructions.

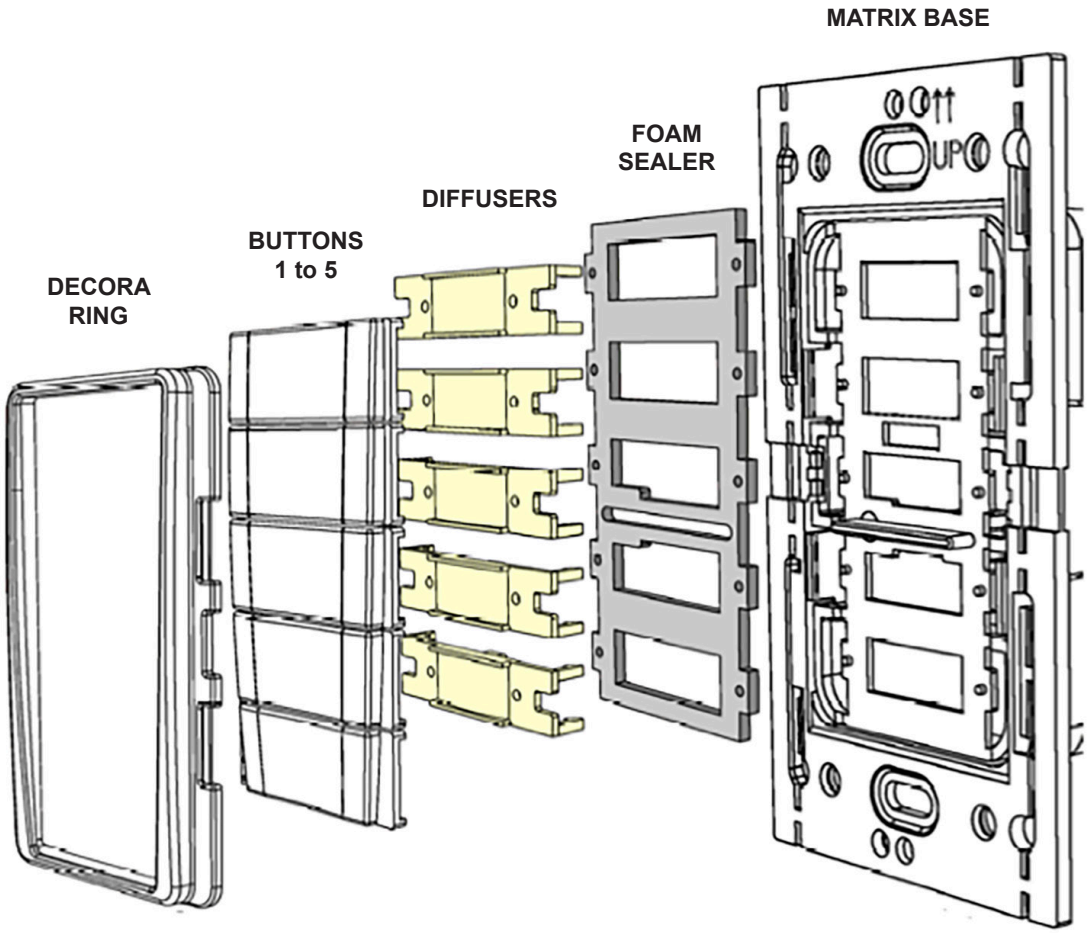
Turn the circuit breaker off and make sure no voltage is present at the ScenePoint station being modified.

1. Change the software file to the new number of buttons with proper engraving.
2. Order the new buttons for proper engraving.
3. Disconnect power from the station.
4. Replace the old button configuration with the new button configuration using the chart example below.
5. When finished replacing the buttons and the station is fully assembled, test the new buttons operation.

PROPER BUTTON ASSEMBLY OF EASYTOUCH II STATIONS

Disassemble:

1. *Faceplate:* Remove faceplate.
2. *Decora Ring:* Remove Decora button ring.
3. *EasyTouch II Buttons:* Remove buttons that need replaced.
4. *LED Button Diffuser:* Remove or add diffusers for new button configuration, using the examples on the next page.



CHANGING THE NUMBER OF BUTTONS *(continued)*

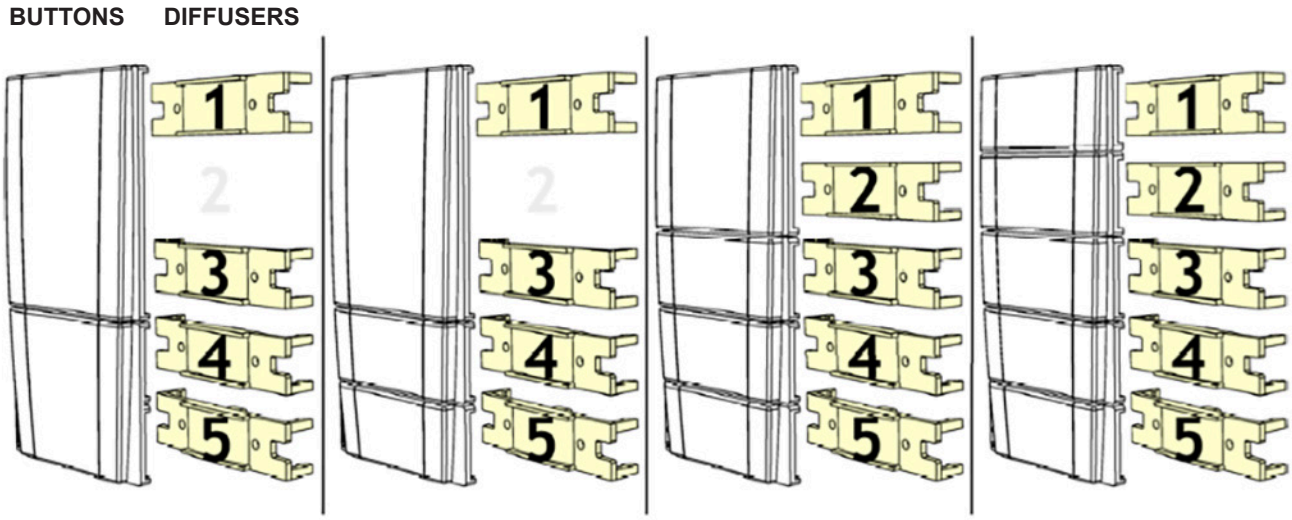
Assemble:

1. *LED Diffusers*: Double check diffusers are in the correct position.

2. *Buttons*: Place buttons in proper positions for new configuration. Buttons must be in the correct position following tapered design from top to bottom. Buttons have a small number on the back border, 1 is top and 5 is bottom.

3. *Decora Button Ring*: Replace, securely snaps in place.

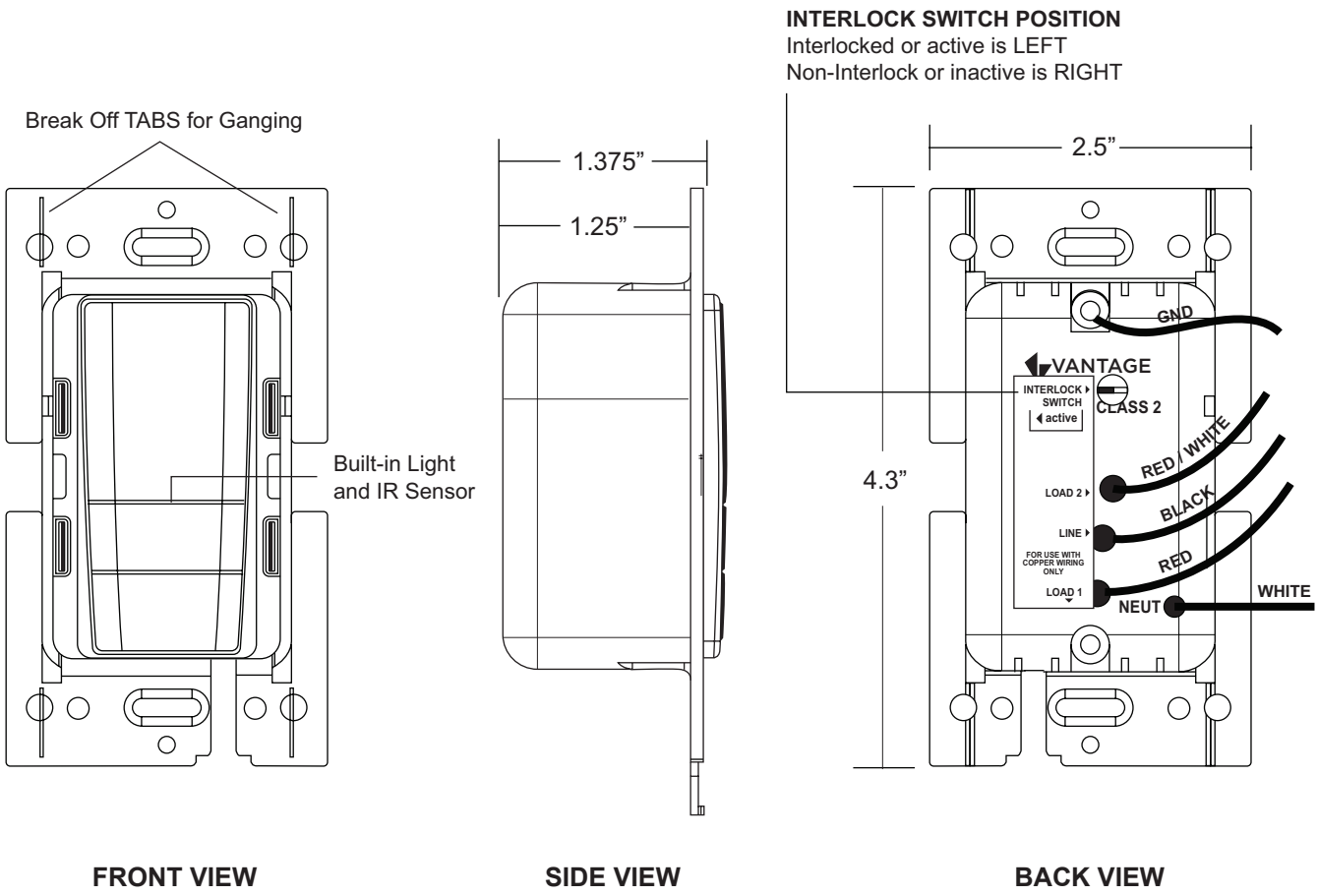
4. *Faceplate*: Replace.



TWO and THREE BUTTON DIFFUSERS 1, 3, 4 and 5

FOUR and FIVE BUTTON DIFFUSERS 1 - 5

MULTI-VIEW LINE DRAWING



FRONT VIEW **SIDE VIEW** **BACK VIEW**

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