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Overview

The Vantage ScenePoint relay station is a wall box relay that connects to the Vantage Control System. It is available in a one load configuration and may be ganged with additional ScenePoint Stations up to 4 gangs. It is powered via the local line feed, and communicates with the system through the 2-wire station bus. Before the relay is programmed, or if communication is lost, the relay functions in default mode as an independent toggle. Once a button is programmed it can perform any operation that a standard station supports controlling its own or other loads. The ScenePoint station's relay load can be controlled by any other keypad, IR input or timed event. It supports up to six buttons per station and an optional internal IR receiver.

Specifications

Description	Specification
Station Dimensions*	Height = 4.3" -or- 109mm Depth = 1.38" -or- 35mm Width = 2.5" -or- 64mm
Faceplate Dimensions*	Height = 4.7" -or- 119mm Width = 2.95" -or- 75mm
Weight	4.8oz. -or- 136g
Voltage	120/240V ~ 60/50Hz
Max. Load	16A (1920W @ 120V) - or - 16A (3840W @ 240V)
Built-in Protection	MOV surge suppression
Arc Suppression	Zero Cross Built-in arc suppression
Lightning / Surge Protection	High Voltage meets IEEE C62.41 (6000V & 3000A) Low Voltage meets ITU-T K.20
Station Wiring configuration	Daisy-chain/Star/Branch
Station Bus Specification	2C, 16AWG / 1.31mm2, twisted, non-shielded, <30pF per foot. Separate a minimum of 12" / 30.5cm from other parallel communication and/or high voltage runs.
Station Equivalent InFusion	0.36W on IC-24 / 0.54W on IC-36
Station Equivalent QLink	1 Station on QLink Main Controller
Station Bus connections*	24V / 36V Station Bus
Ambient Operating Temperature	32 - 95°F -or- 0 - 35°C
Ambient Operating Humidity	5 - 95% non-condensing
Cooling	None required
Status Indicator	Microprocessor Status
Load Types	Incandescent, Cold Cathode, HID, Fluorescent, Constant-Speed Motors
Minimum Load Required	0 Watts
UL and CUL Listed	Yes

***CAUTION:** 36V stations have a (36) symbol on the Serial Number sticker. Any station, not displaying this symbol, should not be connected to a 36Volt Station Bus.

* Please see the ScenePoint Dimmer station's instruction sheet for multiple gang dimensions.

System Requirements

This station is compatible with InFusion Design Center software and QLink software version 4.0 or higher with QLink Controller firmware version 7.0 or higher. For new projects it is recommended that firmware and software be kept to the most current release.

FacePlates

Typically ScenePoint stations have plastic faceplates, however metal faceplates may be used. Metal faceplates may feel warm to the touch when fully loaded, this is normal.

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 the warranty and is a risk to the installer. The relay station requires Neutral to operate. The Green ground lead must be connected to the structure's safety ground. A standard station pigtail will mate with the station bus connector on the relay station. The station's bus wire and Vantage's pigtail are both rated at 600Volts. A pigtail connects to the station bus using wire nuts, insulation displacement crimps or any other suitable wire fastener.

Minimum Back Box Dimensions

For single gang: 2.80"h x 1.80"w x 2.5"d
Please see the ScenePoint Dimmer station's instruction sheet for multiple gang dimensions.

Most standard back boxes that have the receiving threads for the dimmer mounting screw inside the box will be adequate. Most back boxes where the receiving threads are outside the box will be too small.

In some areas local codes may require that the low voltage wiring be connected outside of the electrical box. A groove is provided in the relay station to route the station bus outside of the electrical box. See detailed drawing at end of instructions.

Mud Rings

If mud rings are specified on a job it is important to test the mud rings for proper fit. Some mud rings 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 standard ScenePoint Relay Station may be used in any 3-way application. When installing a standard ScenePoint Relay station, as a 3-way switch, the Red (Load Out) wire is not connected and is properly capped.

Setup Using InFusion Design Center Software

First select the room, then click on *Vantage Objects* in the *Object Explorer* and expand *Stations, WireLink*. From the list of stations double click on the *ScenePoint Relay Station* to place it in the room. In the *Object Editor* name the station and make sure it is on the correct station bus. In the *Object Editor* click on *Auxiliary* to assign an Internal IR receiver.

Setup Using QLink Software

In QLink right click on the room and from the pop-up menu, select Add WireLink Station | ScenePoint Relay. This will reveal the *ScenePoint Relay Definition* Dialog Box. Select the number of buttons. A built-in IR may also be added by clicking Internal IR Receiver. Click OK to exit the ScenePoint Relay Definition window.

Configuration

With AC power connected and turned on, and the ScenePoint Relay station is connected to the Station Bus, the diagnostic LED will blink twice followed by a pause, meaning that the station is connected correctly but not yet configured. From Design Center, click on the Configure Stations button on the toolbar or From QLink, select System | Configure Stations and click on the radio Configure button in the Online Configuration section of the window. Highlight the ScenePoint Relay station.

The Status LED will blink 5 times followed by a pause and the button LEDs will blink rapidly indicating that the station is in configuration mode. To finish configuring press any button on the Station 3 times. The station may also be configured by typing the serial number in the project file, using this method the station will automatically be configured when the system is programmed. Once configured the Status LED will blink evenly and the buttons stop blinking.

Default Mode

The ScenePoint Relay station has a default mode that operates without programming or being connected to the Vantage System. If a relay station has been programmed but communication with the controller is lost the station will revert to default operation, i.e., toggling the load directly connected to the station.

Default IR Mode

If the relay station has the optional IR receiver, the relay will have a default IR mode that is active when the station is not communicating with a system or when none of the Scene Codes in its IR Zone have been programmed.

When Vantage IR Scene Code 230 is transmitted from the Vantage IR Remote Control, the local ScenePoint load will toggle ON and OFF. Scene 9, code 238, will turn the relay station's local load on. Scene 10, code 239, will turn all relay station's load off.

Unlike the buttons, if any IR Scene button is programmed all of the IR Scene buttons stop executing default operation.

Reset

The station stores the configuration data locally so that it will continue to operate correctly if communication with the system is lost. This information includes: LED properties, sounder properties and last load state. To reset this information to the factory default, press and hold switches 1, 2 and 3 while power is applied to the station. The board will respond by sounding three beeps to indicate that the reset took place. Since buttons do not need to be installed in switches 1-3, the faceplate may need to be removed so that the switch matrix can be pressed directly.

After a reset the load profile will be Default, the LED levels will be default and the loads will all be off.

Removing Metal Tabs

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

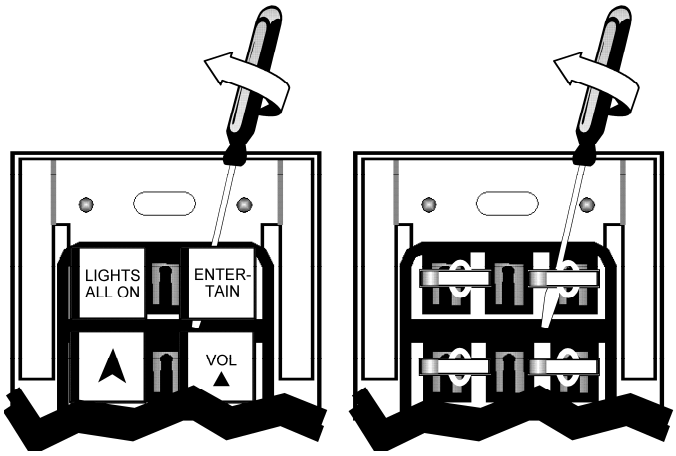
Diagnostic Information

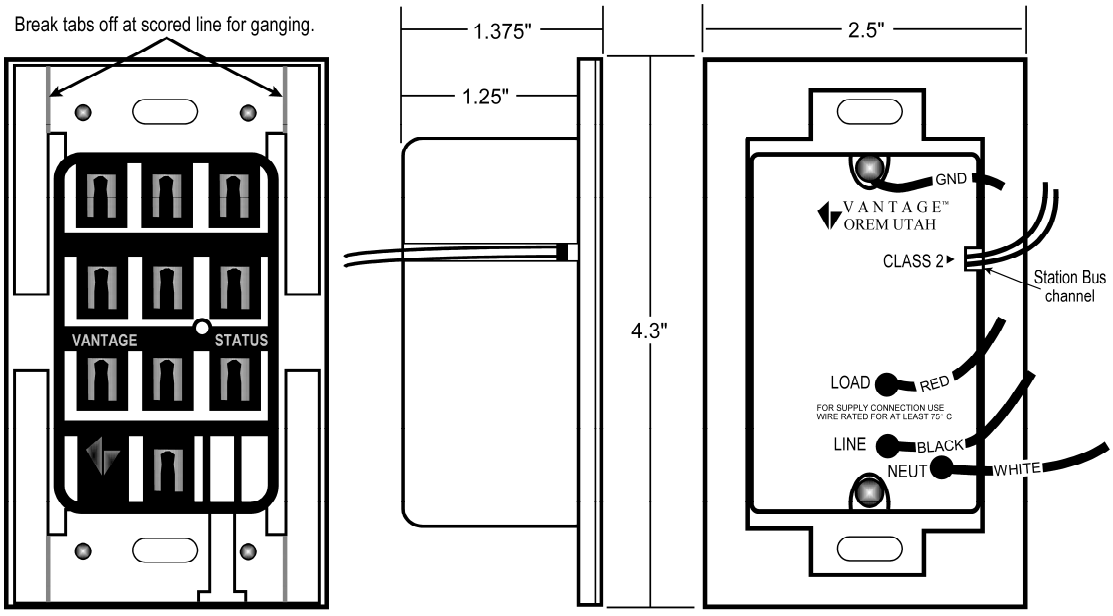
When the faceplate is removed the Status LED can be seen behind the station's switch matrix. The Status LED blinks evenly or flashes 2, 3, or 4 times followed by a pause to indicate status information.

Off: The station is not powered. A line voltage connection has not been made or the line feed breaker is off.
Even blink: Station is operating correctly and is configured.
Two blinks: Station is operating correctly but is not configured.
Three blinks: Station is not communicating with the Main Controller. Verify that station bus wiring conforms to Vantage guidelines.
Four blinks: ScenePoint problem. Please contact factory.
Five blinks: Configuration mode.

Button Removal Instructions

Remove power from station. Do not use fingers to remove SquareTouch or FineTouch buttons or the switch matrix may be broken voiding the warranty. Carefully insert a small flat-blade screwdriver between the button and the black switch matrix. Make sure the screwdriver does not protrude below the switch matrix. Slightly twist the screwdriver and the button will easily lift off the switch matrix. EasyTouch buttons must be removed from bottom to top.





FRONT **SIDE** **BACK**

NEC Code Wiring Information

Installing ScenePoints with Vantage parts, meet or exceed all NEC codes for connecting the Class 2 wiring ***inside*** or ***outside*** of the electrical box. See diagram for Class 2 connections outside of the electrical box.

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Vantage ScenePoint Stations satisfy National Electrical Code (NEC). Based on Article 725-136. Vantage station bus wiring and Vantage pigtails meet NEC's code. Vantage station bus wiring and Vantage pigtails are 600V rated. ScenePoints installed with Vantage parts meet all NEC codes for wiring inside the electrical box. However, Vantage has included a path to make Class 2 connections outside of the electrical box if desired. Follow these instructions to make connections to the Station Bus outside, of the electrical box. Please see "ScenePoint Class2 Wiring_technote.pdf" at http://dealer.vantagecontrols.com/ for more information.*

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Note: Please See item number **4a** for TrimLine II stations

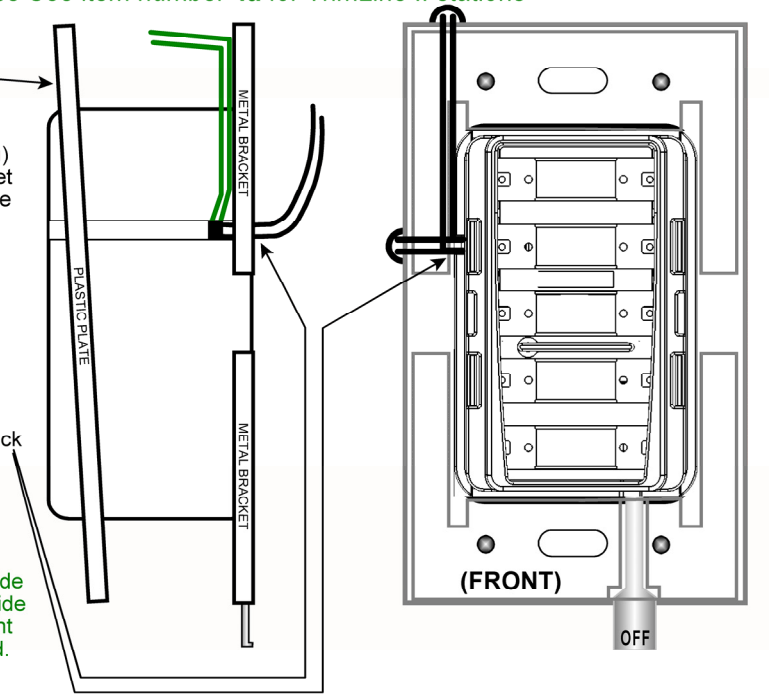
1.
Remove back (plastic) plate from metal brackets if there.

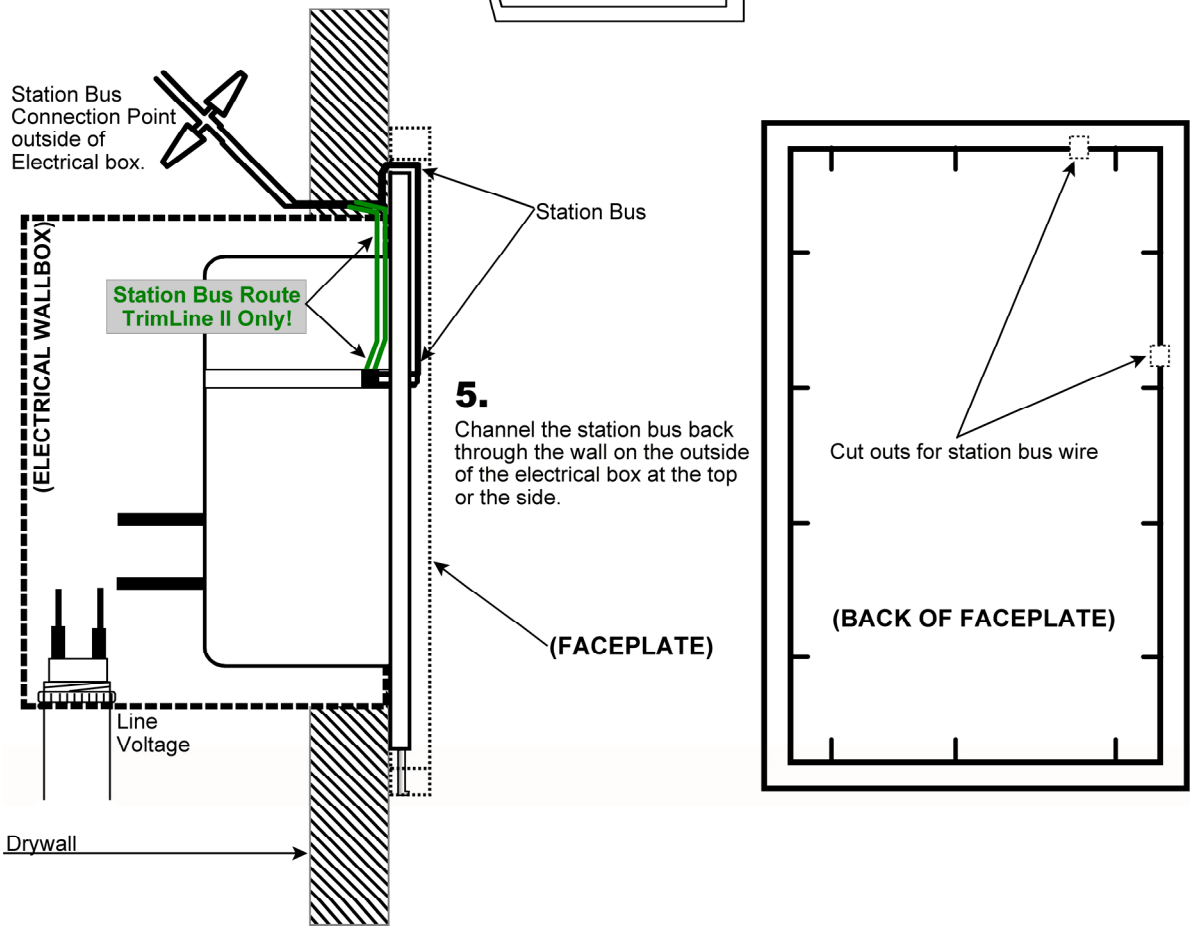
2.
Carefully slide station bus (Class 2 Wiring) connection wire between the metal bracket and the station's back box feeding the wire out the front of the station.

3.
Snap plastic back plate back onto metal brackets.

4.
The station bus wire may be pulled to the left or top side of the station as illustrated. The station bus will then be channeled back through the wall on the outside of the electrical box.

4a.
For TrimLine II stations only, station bus wire may be pulled straight up the back side of the metal bracket and then routed outside of the electrical box. The plate has a slight recess allowing the wire to not be pinched.





5.
Channel the station bus back through the wall on the outside of the electrical box at the top or the side.