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Product Manual

SSW-USB Series

Room Availability Hall Sign, Wall Mount With USB-C Adapter

Crestron Electronics, Inc.

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Regulatory Model: SSW

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SSW-USB Series

The SSW-USB kits include one SSW availability sign (SSW-100-EL, SSW-102-EL, or SIW-100) and the ADPT-USB-USB-RA cable.

The SSW-USB Series hallway sign provides a clear indication of a room's availability with enhanced contrast and visibility as part of a complete Crestron® enterprise room scheduling solution. SSW-USB Series hallway signs are capable of interfacing with the TSW-70 and TSW-80 touch screens via USB connection and the ADPT-USB-USB-RA. The complete sign assembly mounts to the wall over a 1-gang electrical box or plaster ring.

The ADPT-USB-USB-RA is available to purchase separately in a pack of five cables.

This section provides the following information:

- Features

Features

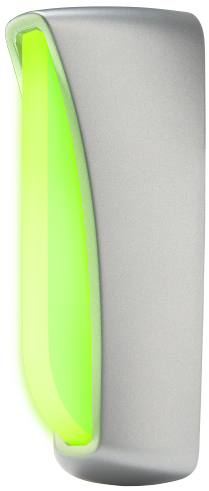
This section provides the following information:

- SIW-100-USB Features
- SSW-100-EL Features
- SSW-102-EL Features
- ADPT-USB-USB-RA Features

SIW-100-USB Features

Key features include:

- Provides highly-visible indication of room availability
- Includes a ADPT-USB-USB-RA USB-C® to USB-A adapter
- Compatible with TSW-70 and TSW-80 series touch screens
- Clearly visible at 50 ft (15 m)
- Custom functionality possible when connected to a Crestron® control system
- Mounts to a single-gang electrical box or plaster ring
- Illuminates green or red to indicate room availability status



SIW-100-USB

The hallway sign provides a clear indication of a room's availability with enhanced contrast and visibility as part of a complete Crestron® enterprise room scheduling solution. The SIW-100 features a stylish appearance and vivid color illumination that complements any corporate office environment. The clear acrylic lens illuminates green or red to indicate room availability. The complete sign assembly mounts to the wall over a 1-gang electrical box or plaster ring.

Room Availability Status

For room scheduling applications, the SIW-100-USB connects via USB to a Crestron TSW-70 or TSW-80 series touch screen. No special programming or configuration is required. The sign color is controlled by the room scheduling application, which runs on the touch screen and syncs with Crestron Fusion® software or another room scheduling service. The sign illuminates green when the room is available and red when the room is occupied.

Custom RBG Colors

For custom applications, the SIW-100-USB can be integrated with a Crestron control system and programmed to illuminate in a variety of colors:

- The RGB LEDs can be controlled in 10% increments per color.
- When the sign is powered by USB, any single color LED can be used at full brightness.
- When the sign is connected to a control system via a Cresnet® network connection, two color LEDs can be used at full brightness simultaneously.
- Three color mixing is possible via Cresnet if each LED is limited to 70%.
- The control system can be programmed to support all types of functionality, enabling colors to alternate, fade in and out, or blink on and off.

Control system integration can be accomplished through a USB connection to a TSW-70 or TSW-80 series touch screen, or through a Cresnet connection to the control system. Connection to a TSW-80 series touch screen requires an ADPT-USB-USB-RA (included).

Simple Installation

The SIW-100-USB mounts to the wall over a standard 1-gang electrical box or plaster ring. Power and communications are supplied by a single USB or Cresnet cable. A 6 ft (1.83 m) USB cable is included, which connects to the touch screen mounted below the sign. Alternately, a Cresnet cable (sold separately) can be run to a control system up to 3,000 ft (914 m) away. Cresnet permits multiple hallway signs to be daisy chained using a single cable.

Mullion Mounted Option

When a suitable wall surface is not available, the SIW-100-USB can be mounted to the mullion of an interior glass wall, window, or partition using the optional SSW-MUMK mullion mount kit (sold separately). The same kit may also be adhered directly to the glass or any other smooth surface.

SSW-100-EL Features

Key features include:

- Provides highly-visible indication of room availability
- Includes a ADPT-USB-USB-RA USB-C® to USB-A adapter
- Compatible with TSW-70 and TSW-80 series touch screens
- Clearly visible at 150 ft (46 m)
- Custom functionality possible when connected to a Crestron® control system
- Mounts to a single-gang electrical box or plaster ring
- Illuminates green or red to indicate room availability status



The SSW-100-EL-USB KIT includes the SSW-100-EL room availability hallway sign and the ADPT-USB-USB-RA USB-C® to USB-A adapter. Each adapter can be used to convert an existing room availability sign (SIW, SSW, or SSC series) from USB-A to USB-C for compatibility with TSW-80 touch screens.

Room Availability Status

For room scheduling applications, the SSW-100-EL-USB connects via USB to a Crestron TSW-70 or TSW-80 series touch screen. No special programming or configuration is required. The sign color is controlled by the room scheduling application, which runs on the touch screen and syncs with Crestron Fusion® software or another room scheduling service. The sign illuminates green when the room is available and red when the room is occupied.

Custom RBG Colors

For custom applications, the SSW-100-EL-USB can be integrated with a Crestron control system and programmed to illuminate in a variety of colors:

- The RGB LEDs can be controlled in 10% increments per color.
- When the sign is powered by USB, any single color LED can be used at full brightness.
- When the sign is connected to a control system via a Cresnet® network connection, two color LEDs can be used at full brightness simultaneously.
- Three color mixing is possible via Cresnet if each LED is limited to 70%.
- The control system can be programmed to support all types of functionality, enabling colors to alternate, fade in and out, or blink on and off.

Control system integration can be accomplished through a USB connection to a TSW-70 or TSW-80 series touch screen, or through a Cresnet connection to the control system. Connection to a TSW-80 series touch screen requires an ADPT-USB-USB-RA (included).

Simple Installation

The SSW-100-EL-USB mounts to the wall over a standard 1-gang electrical box or plaster ring. Power and communications are supplied by a single USB or Cresnet cable. A 6 ft (1.83 m) USB cable is included, which connects to the touch screen mounted below the sign. Alternately, a Cresnet cable (sold separately) can be run to a control system up to 3,000 ft (914 m) away. Cresnet permits multiple hallway signs to be daisy chained using a single cable.

Custom Engraving

The SSW-100-EL-USB includes a blank acrylic sign that supports custom engraving. The engraving appears on both sides of the acrylic sign face to identify the room by name, number, or a representative icon image. When illuminated, the engraving is clearly visible at a distance of 150 ft (46 m) if 1 in. fonts are used. Engraving can be changed at any time by purchasing a replacement sign face (models SSW-ACR-100-EL or SSW-ACR-102-EL). The SSW-100-EL-USB supports engravings generated by Impress Custom Engraving Software or a third party.

Mullion Mounted Option

When a suitable wall surface is not available, the SSW-100-EL-USB can be mounted to the mullion of an interior glass wall, window, or partition using the optional SSW-MUMK mullion mount kit (sold separately). The same kit may also be adhered directly to the glass or any other smooth surface.

SSW-102-EL Features

Key features include:

- Provides highly-visible indication of room availability
- Includes a ADPT-USB-USB-RA USB-C® to USB-A adapter
- Compatible with TSW-70 and TSW-80 series touch screens
- Clearly visible at 150 ft (46 m)
- Custom functionality possible when connected to a Crestron® control system
- Mounts to a single-gang electrical box or plaster ring
- Illuminates green or red to indicate room availability status



The SSW-102-EL-USB KIT includes the SSW-102-EL room availability hallway sign and the ADPT-USB-USB-RA USB-C® to USB-A adapter. Each adapter can be used to convert an existing room availability sign (SIW, SSW, or SSC series) from USB-A to USB-C for compatibility with TSW-80 touch screens.

Room Availability Status

For room scheduling applications, the SSW-102-EL-USB connects via USB to a Crestron TSW-70 or TSW-80 series touch screen. No special programming or configuration is required. The sign color is controlled by the room scheduling application, which runs on the touch screen and syncs with Crestron Fusion® software or another room scheduling service. The sign illuminates green when the room is available and red when the room is occupied.

Custom RBG Colors

For custom applications, the SSW-102-EL-USB can be integrated with a Crestron control system and programmed to illuminate in a variety of colors:

- The RGB LEDs can be controlled in 10% increments per color.
- When the sign is powered by USB, any single color LED can be used at full brightness.
- When the sign is connected to a control system via a Cresnet® network connection, two color LEDs can be used at full brightness simultaneously.
- Three color mixing is possible via Cresnet if each LED is limited to 70%.
- The control system can be programmed to support all types of functionality, enabling colors to alternate, fade in and out, or blink on and off.

Control system integration can be accomplished through a USB connection to a TSW-70 or TSW-80 series touch screen, or through a Cresnet connection to the control system. Connection to a TSW-80 series touch screen requires an ADPT-USB-USB-RA (included).

Simple Installation

The SSW-102-EL-USB mounts to the wall over a standard 1-gang electrical box or plaster ring. Power and communications are supplied by a single USB or Cresnet cable. A 6 ft (1.83 m) USB cable is included, which connects to the touch screen mounted below the sign. Alternately, a Cresnet cable (sold separately) can be run to a control system up to 3,000 ft (914 m) away. Cresnet permits multiple hallway signs to be daisy chained using a single cable.

Custom Engraving

The SSW-102-EL-USB includes an acrylic sign that supports custom engraving. The engraving appears on both sides of the acrylic sign face to identify the room by name, number, or a representative icon image. When illuminated, the engraving is clearly visible at a distance of 150 ft (46 m) if 1 in. fonts are used. Engraving can be changed at any time by purchasing a replacement sign face (models SSW-ACR-100-EL or SSW-ACR-102-EL). The SSW-102-EL-USB supports engravings generated by Impress Custom Engraving Software or a third party.

Mullion Mounted Option

When a suitable wall surface is not available, the SSW-102-EL-USB can be mounted to the mullion of an interior glass wall, window, or partition using the optional SSW-MUMK mullion mount kit (sold separately). The same kit may also be adhered directly to the glass or any other smooth surface.

ADPT-USB-USB-RA Features



ADPT-USB-USB-RA

The ADPT-USB-USB-RA is a USB-C® male to USB-A female adapters for the TSW-80 series wall mounted touch screens. Each adapter can be used to convert an existing room availability sign (SIW, SSW, or SSC series) from USB-A to USB-C for compatibility with the TSW-80 series touch screens and is angled for easier installation.

Specifications

This section provides the following information:

- SIW-100 Specifications
- SSW-100-EL Specifications
- SSW-102-EL Specifications
- ADPT-USB-USB-RA Specifications

SIW-100 Specifications

Product specifications for the SIW-100 are provided below.

Product Specifications

Indicator

Material	Acrylic
Illumination	Edgelit RGB LED
Functionality	Supports alternating red/green indication of room availability status when connected to a room scheduling touch screen via USB, supports custom RGB color mixing when connected to a control system

Communications

USB	USB 2.0 device for connection to a TSW-70 or TSW-80 touch screen
Cresnet	Cresnet® network client mode

Connectors

USB	(1) micro USB Type B connector, female; USB 2.0 device port; Plenum-rated 15 ft (4.57 m) micro B male to A male USB cable included

Controls

CNET ID	(1) Push button (behind bezel) for Cresnet TSID (touch-settable ID)

Power

USB	2.4 W @ 5V USB power
Cresnet Power Usage	2.4 W @ 24VDC

Environmental

Temperature	41° to 113° F (5° to 45° C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	4 BTU/hr on USB power; 7 BTU/hr on Cresnet power

Construction

Composition	Metal bracket with replaceable acrylic lens and magnetically-held gray plastic bezel
Mounting	Mounts to a 1-gang U.S. electrical box or plaster ring

Dimensions

Height	6.41 in. (163 mm)
Width	2.79 in. (71 mm)
Depth	2.16 in (55 mm)

Projects 2 in. (52 mm) from the mounting surface

SSW-100-EL Specifications

Product specifications for the SSW-100-EL are provided below.

Product Specifications

Indicator

Material	Acrylic, two sided
Engraving	One or two lines per side with same text or graphical icon on each side
Illumination	Edgelit RGB LED
Functionality	Supports alternating red/green indication of room availability status when connected to a room scheduling touch screen via USB, supports custom RGB color mixing when connected to a control system

Communications

USB	USB 2.0 device for connection to a TSW-70 or TSW-80 touch screen
Cresnet	Cresnet® network client mode

Connectors

USB	(1) micro USB Type B connector, female; USB 2.0 device port; Plenum-rated 15 ft (4.57 m) micro B male to A male USB cable included

Controls

CNET ID	(1) Push button (behind bezel) for Cresnet TSID (touch-settable ID)

Power

USB	2.4 W @ 5V USB power
Cresnet Power Usage	2.4 W @ 24VDC

Environmental

Temperature	41° to 113° F (5° to 45° C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	4 BTU/hr on USB power; 7 BTU/hr on Cresnet power

Construction

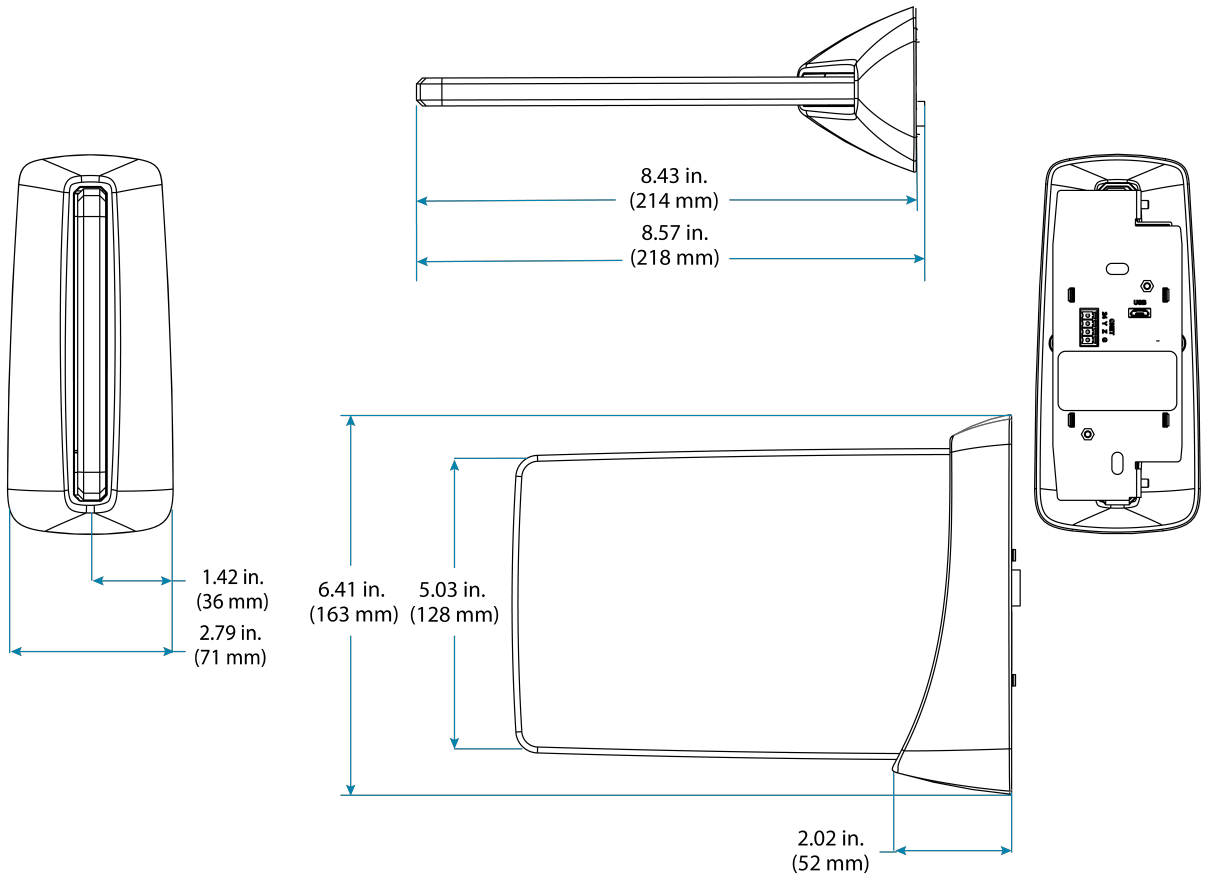
Composition	Metal bracket with replaceable gray acrylic sign face and magnetically-held gray plastic bezel
Mounting	Mounts to a 1-gang U.S. electrical box or plaster ring

Dimensions

Height	6.41 in. (163 mm)
Width	2.79 in. (71 mm)
Depth	8.57 in. (218 mm)

Projects 8.43 in. (214 mm) from the mounting surface

Dimension Drawings



SSW-102-EL Specifications

Product specifications for the SSW-102-EL are provided below.

Product Specifications

Indicator

Material	Acrylic, two sided
Engraving	One or two lines per side with same text or graphical icon on each side
Illumination	Edgelit RGB LED
Functionality	Supports alternating red/green indication of room availability status when connected to a room scheduling touch screen via USB, supports custom RGB color mixing when connected to a control system

Communications

USB	USB 2.0 device for connection to a TSW-70 or TSW-80 touch screen
Cresnet	Cresnet® network client mode

Connectors

USB	(1) micro USB Type B connector, female; USB 2.0 device port; Plenum-rated 15 ft (4.57 m) micro B male to A male USB cable included

Controls

CNET ID	(1) Push button (behind bezel) for Cresnet TSID (touch-settable ID)

Power

USB	2.4 W @ 5V USB power
Cresnet Power Usage	2.4 W @ 24VDC

Environmental

Temperature	41° to 113° F (5° to 45° C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	4 BTU/hr on USB power; 7 BTU/hr on Cresnet power

Construction

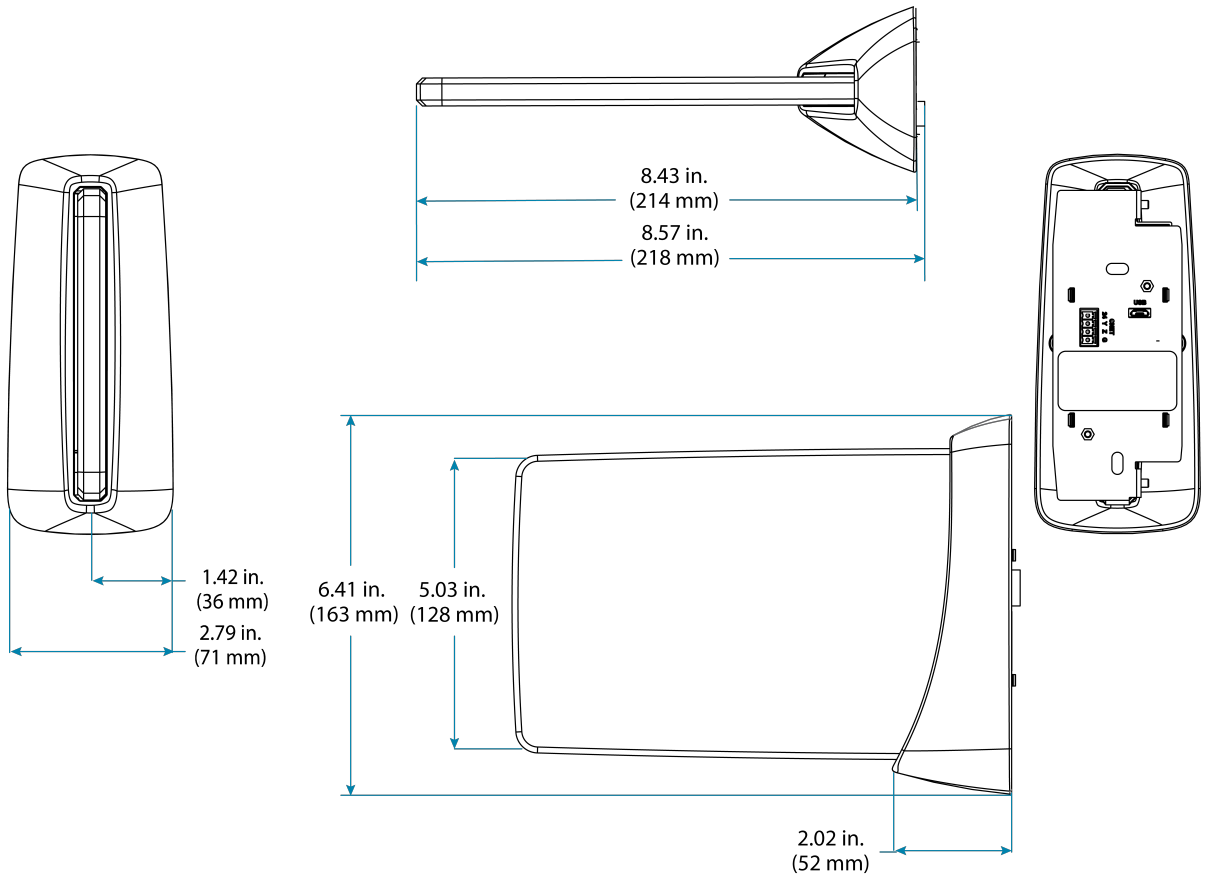
Composition	Metal bracket with replaceable gray acrylic sign face and magnetically-held gray plastic bezel
Mounting	Mounts to a 1-gang U.S. electrical box or plaster ring

Dimensions

Height	6.41 in. (163 mm)
Width	2.79 in. (71 mm)
Depth	8.57 in. (218 mm)

Projects 8.43 in. (214 mm) from the mounting surface

Dimension Drawings



ADPT-USB-USB-RA Specifications

Product specifications for the ADPT-USB-USB-RA are provided below.

Product Specifications

Dimensions

Length	6.00 in. (152 mm)

SSW Series Installation

In the Box

Qty.	Description
1	SSW-100-EL, Room Availability Hallway Sign, Wall Mount, Enhanced Legibility
1	ADPT-USB-USB-RA, USB-C® Angled Male to USB-A Female Adapter for TSW-80 Series
	Additional Items
1	Cable, USB 2.0, A - Micro B, 15 ft (4.57 m), Plenum Rated (2049072)
1	Connector, 4-Pin (2003576)
2	Screw, 4-40 x 1/2 in. SEMS, Pan Head, Phillips (2011592)
2	Screw, 6-32 x 5/16 in. Pan Head, Phillips (2007221)

Connect the Device

The Crestron® SSW room availability hallway sign may be powered and controlled by a Crestron TSW-70 or TSW-80 series touch screen via USB, or by a Crestron control system or DMPS3 device via a Cresnet® network connection. Both connection methods are described below.

> **NOTE:** All cable connections must be made prior to installing the device.

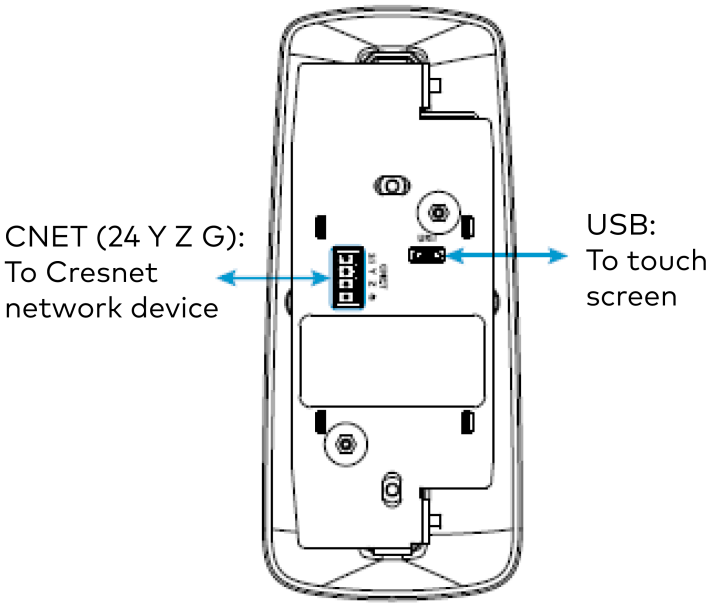
USB Connection

Use the included USB cable to connect the SSW to the touch screen.

- For TSW-70 Series, connect the cable's USB A connector to the touch screen and the micro USB connector to the SSW assembly.
- For TSW-80 Series, connect the cable's USB A connector to the touch screen via the ADPT-USB-USB-RA cable adapter and the micro USB connector to the SSW assembly.

Cresnet Connection

Use any standard Cresnet cable (not included) and the included 4-pin terminal block to connect the SSW to a Crestron control system or DMPS3 device. The SSW is powered and controlled over Cresnet via programming in SIMPL or Crestron Construct® software.



NOTE: The **CNET ID** button on the front of the assembly is used to identify the device on the network using the Network Device Tree View in Crestron Toolbox™ software. For more information, refer to the embedded Crestron Toolbox help file.

The brightness of the SSW may be custom programmed as follows:

- If the SSW is connected to a touch screen, brightness is controlled by sending a custom property to the touch screen in Crestron Fusion® software. For more information, refer to the embedded Crestron Fusion help file.
- If the SSW is connected to a control system, brightness is controlled via custom programming in SIMPL or Crestron Construct. For more information, refer to the embedded SIMPL or Crestron Construct help files.

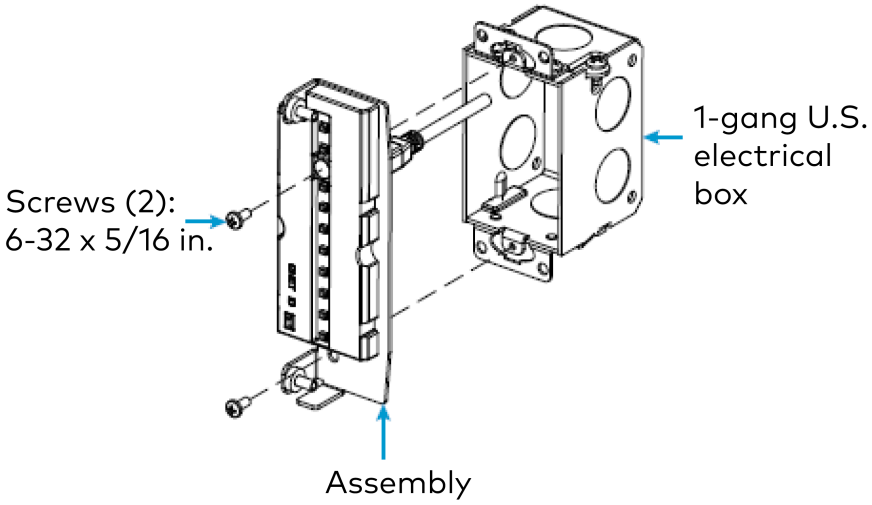
Install the Device

The SSW installs over a standard 1-gang U.S. electrical box. Once installed, the touch screen protrudes 8.43 in. (214 mm) from the mounting surface.

To install the device:

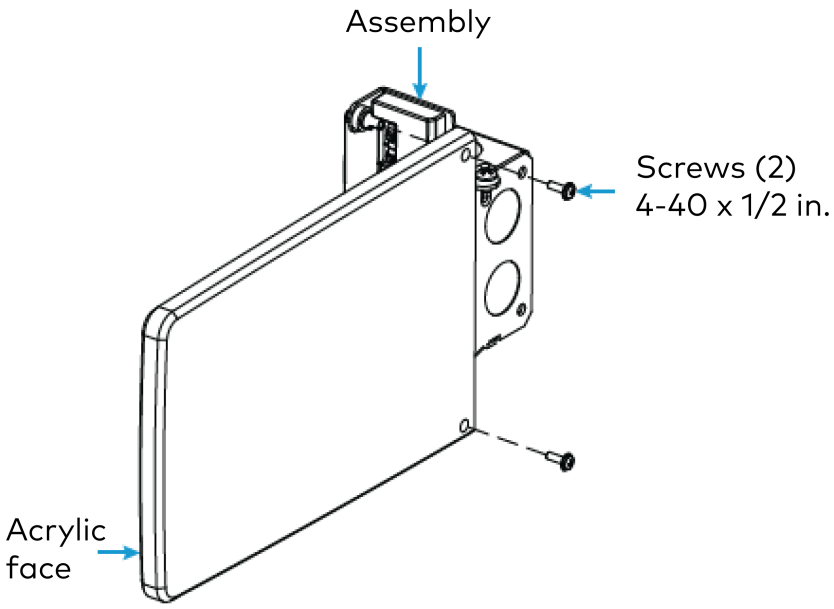
1. Once all cable connections have been made, attach the device assembly to the electrical box using the two included 6-32 x 5/16 in. screws and a Phillips screwdriver.

   > **NOTE:** For retrofit installations, the SSW may be installed over a 1-gang plaster ring using the same installation method described above.



2. Align the two mounting holes on the acrylic face (included with the SSW kit or purchased separately) with the mounting posts on the assembly.
3. Attach the acrylic face to the assembly so that the posts on the assembly engage the holes on the acrylic face. The acrylic face stays in place after it is attached to the assembly.

4. Using a Phillips screwdriver, secure the acrylic face to the assembly with the two included 4-40 x 1/2 in. screws.



5. Remove the plastic film from the acrylic face once it is secured.
6. Slide the included bezel carefully over the acrylic face until the magnets on the bezel snap into place against the assembly.

Resources

The following resources are provided for the SSW-USB Series.

> **NOTE:** You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

Crestron Support and Training

- Crestron True Blue Support
- Crestron Resource Library
- Crestron Online Help (OLH)
- Crestron Technical Institute (CTI) Portal

Programmer and Developer Resources

- help.crestron.com: Provides help files for Crestron programming tools such as SIMPL, SIMPL#, and Crestron Toolbox™ software
- developer.crestron.com: Provides developer documentation for Crestron APIs, SDKs, and other development tools

Product Certificates

To search for product certificates, refer to the Product Certificates section of the Crestron Resource Library.

Related Documentation

- Crestron Technical Documentation

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