## Crestron Green Light™ DIN-8SW8 DIN Rail High-Voltage Switch Operations & Installation Guide



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## Crestron Green Light<sup>™</sup> DIN Rail High-Voltage Switch: DIN-8SW8

## Introduction

The DIN-8SW8 is an eight channel high-voltage switching module designed to support switching of non-dimmable lighting and fans. A single model supports both 120 and 220-240 Volt applications. Each channel handles incandescent loads up to 10 Amps, fluorescent loads up to 5 Amps and also ½ HP motors.\*

\* May not be compatible with some high inrush current loads.

## **Features and Functions**

- Eight channels of power switching
- Supports 120-240 Volt 50/60 Hz
- Override input
- Cresnet<sup>®</sup> communications
- Setup via front panel or software
- Programmable functionality via DIN-AP2 or other 2-Series control system
- 9M wide DIN rail mounting

#### DIN Rail Installation

The DIN-8SW8 is designed to snap onto a standard DIN rail for installation in a wall mount enclosure. Wiring connections are made using screw terminals positioned along the top and bottom, clearly accessible from the front for easy installation and servicing. All setup controls and indicators are positioned on the center front panel. When installed in an enclosure utilizing 45 mm cutouts, the DIN-8SW8's front panel stays accessible while the connections are concealed.

#### **Cresnet**<sup>®</sup>

The DIN-8SW8 communicates with a DIN-AP2 2-Series Automation Processor or other Crestron<sup>®</sup> 2-Series control system via the Cresnet control network. A pair of Cresnet ports is provided on the DIN-8SW8 allowing for easy daisy chaining of several DIN Rail Series automation control modules.

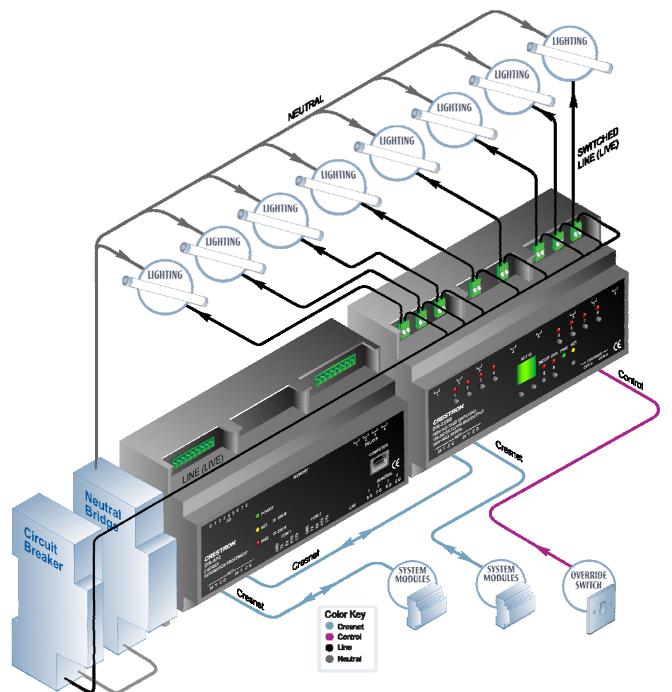
#### **Override** Input

An override input is provided to allow an external contact closure to momentarily override the control system program and set each channel output to its override preset state. States can be set and saved locally from the front panel or remotely via software.

#### **Applications**

The following diagram shows a DIN-8SW8 in a typical application.

DIN-8SW8 in a Typical Application



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#### **Specifications**

Specifications for the DIN-8SW8 are listed in the following table.

**DIN-8SW8** Specifications

SPECIFICATION	DETAILS
Load Ratings	
Switch Channels	8
Maximum Per Channel	10 Amps incandescent, 5 Amps fluorescent, 0.5 HP @ 120-240 Volts AC, 50/60 Hz; 5 Amps @ 30 Volts DC
Minimum Per Channel	0.05 Amps @ 12 Volts DC
Module Total	80 Amps incandescent, 40 Amps fluorescent, @ 120-240 Volts AC, 50/60 Hz
Load Types <sup>1</sup>	Incandescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, fluorescent, motors
Power Requirements	
Cresnet Power Usage	5.4 Watts (225 mA @ 24 Volts DC)
Default Net ID	89
Minimum 2-Series Control System Update File <sup>2, 3</sup>	Version 4.000.0226 or later
Environmental	
Temperature	0º to 40º C (32º to 104º F)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	18 BTU/Hr

(Continued on following page)

SPECIFICATION	DETAILS
Enclosure	Light gray polycarbonate housing with polycarbonate label overlay, UL94 V-0 rated, 35 mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45 mm front panel cutout, occupies 9 DIN module spaces (162 mm)
Dimensions	
Height	94.2 mm (3.71 in)
Width	159 mm (6.26 in)
Depth	59.5 mm (2.35 in)
Weight	369 g (13 oz)
Available Accessories	
DIN-BLOCK	DIN Rail Cresnet Distribution Block
DIN-HUB	DIN Rail Cresnet Distribution Hub
DIN-PWS50	DIN Rail 50 Watt Cresnet Power Supply

DIN-8SW8 Specifications (Continued)

1. May not be compatible with some high inrush current loads.

2. The latest software versions can be obtained from the Crestron website. Refer to the NOTE following these footnotes.

3. Crestron 2-Series control systems include the AV2 and PRO2. Consult the latest Crestron Product Catalog for a complete list of 2-Series control systems.

**NOTE:** Crestron software and any files on the website are for authorized Crestron dealers and Crestron Authorized Independent Programmers (CAIP) only. New users may be required to register to obtain access to certain areas of the site (including the FTP site).

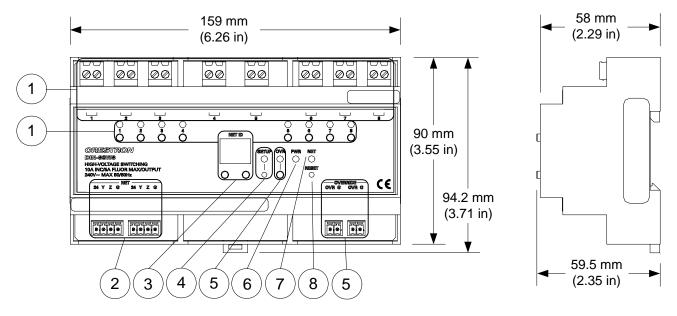
#### **Physical Description**

This section provides information on the connections, controls and indicators available on your DIN-8SW8.

#### DIN-8SW8 Physical View



#### **DIN-8SW8** Overall Dimensions



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Connectors, Controls & Indicators

#	CONNECTORS*, CONTROLS & INDICATORS	DESCRIPTION
1	1-8 and LEDs	<ul> <li>(8) Sets of (2) captive screw terminals;</li> <li>Isolated Class 1 SPST relay switch circuits 1-8;</li> <li>Relay rating:</li> <li>10 Amps incandescent</li> <li>5 Amps fluorescent</li> <li>16 Amps resistive</li> <li>0.5 HP @ 120-240 Volts AC</li> <li>(per channel)</li> <li>Maximum wire size: 2.5 mm<sup>2</sup></li> <li>(12 AWG)</li> <li>(8) Red LEDs and (8) miniature pushbuttons for status indication and local control of each channel</li> </ul>
2	NET 24 y z g 24 y z g	<ul> <li>(2) 4-pin 3.5 mm detachable terminal blocks, paralleled Cresnet slave port</li> <li>Connects to Cresnet control network.</li> <li>Maximum wire size: 1.5 mm<sup>2</sup></li> <li>(16 AWG)</li> <li>Pin 1 (24) Power (24 Volts DC)</li> <li>Pin 2 (Y) Data</li> <li>Pin 3 (Z) Data</li> <li>Pin 4 (G) Ground</li> </ul>
3	NET ID DISPLAY and CONTROL	(2) 7-Segment green LED digits and (2) miniature pushbuttons for setting Cresnet ID and indicating errors

(Continued on following page)

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#	CONNECTORS*, CONTROLS & INDICATORS	DESCRIPTION
4	SETUP (LED and BUTTON)	(1) Red LED and (1) recessed miniature pushbutton for enabling setup mode and touch-settable ID
5	OVERRIDE with LEDs and BUTTON OVR G OVR G IN BOOM IN	<ul> <li>(2) 2-pin 3.5 mm detachable terminal blocks, paralleled; Maximum wire size: 1.5 mm<sup>2</sup></li> <li>(16 AWG) Sensing input for external low-voltage contact closure; Activates Override mode when a closure is present; Minimum closure rating: 10 mA (per module) at 24 Volts</li> <li>(1) Red LED and (1) miniature pushbutton for enabling Override mode and saving override presets. For more information, refer to "Operation" which starts on page 21.</li> </ul>
6	PWR	(1) Green LED, illuminates when DC power is applied to the <b>NET</b> port
7	NET	(1) Yellow LED, indicates communication with the control processor
8	RESET	<ul><li>(1) Recessed miniature pushbutton, resets internal processor</li></ul>

Connectors, Controls & Indicators (Continued)

\* Interface connectors for **NET** and **OVERRIDE** ports are provided with the unit.

#### **Industry Compliance**

This unit has been manufactured to comply with UL's Standards for Safety in Canada and the United States. Formal approval is pending.

As of the date of manufacture, the DIN-8SW8 has been tested and found to comply with specifications for CE marking and standards per EMC and Radiocommunications Compliance Labelling.

# CE C

**NOTE:** 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.

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.

## Setup

#### **Network Wiring**

When wiring the Cresnet network, consider the following:

• Use Crestron Certified Wire.

**NOTE:** Cresnet HP cannot be used.

- Use Crestron power supplies for Crestron equipment.
- Provide sufficient power to the system.

**CAUTION:** Insufficient power can lead to unpredictable results or damage to the equipment. Please use the Crestron Power Calculator to help calculate how much power is needed for the system (<u>www.crestron.com/calculators</u>).

• Use of a Cresnet hub/repeater (DIN-HUB) is advised whenever the number of Cresnet devices on a network exceeds 20 or when the combined total length of Cresnet cable exceeds 914 meters (3000 feet).

For more details, refer to "Check Network Wiring" which starts on page 24.

## **Identity Code**

The Net ID of the DIN-8SW8 has been factory set to **89**. The Net IDs of multiple DIN-8SW8 devices in the same system must be unique. Net IDs are changed from a personal computer (PC) via Crestron Toolbox<sup>TM</sup> (refer to "Establishing Communication" on page 19).

To set the Net ID using the front panel:

- Press the **SETUP** button to enter the *Setup* mode. The **SETUP** LED illuminates.
- Press the left button under the **NET ID** display to change the most significant digit of the Net ID or press the right button under the **NET ID** display to change the least significant digit of the Net ID number.

• When the desired Net ID is displayed, press the **SETUP** button to exit the *Setup* mode. The **SETUP** LED extinguishes.

**NOTE:** If an invalid Net ID is set (00, 02, FF), "Er" will be displayed on the **NET ID** display. The DIN-8SW8 will revert to the previously set Net ID.

**NOTE:** The DIN-8SW8 will leave the *Setup* mode after 10 seconds of inactivity. The DIN-8SW8 will revert to the previously set Net ID.

**NOTE:** A small label (with numbers and letters) is provided on the front panel of the DIN-8SW8 to document the unit's Net ID in the case where power is not available. Apply a mark over the digits that correspond to the assigned Net ID.

#### NET ID Label ("3C" Shown)

 NET ID
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 A
 B
 C
 D
 1
 2
 3
 4
 5
 6
 7
 8
 9
 A
 B
 C
 D
 F
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 A
 B
 C
 D
 F
 0
 1
 2
 3
 4
 5
 6
 7
 8
 A
 B
 C
 D
 E
 0
 1
 2
 3
 4
 5
 6
 7
 8
 A
 B
 C
 D
 E
 0
 0
 0
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When setting the Net ID, consider the following:

- The Net ID of each unit must match an ID code specified in the SIMPL<sup>TM</sup> Windows<sup>®</sup> program.
- Each network device must have a unique Net ID.

For more details, refer to the Crestron Toolbox help file.

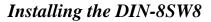
#### Installation

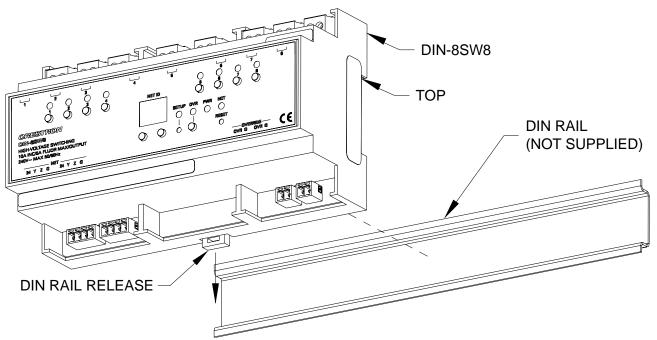
The DIN-8SW8 must be installed by a licensed electrician, in accordance with all national and local codes.

**CAUTION:** This equipment is for indoor use only. Mount in a well ventilated area. The ambient temperature must be  $0^{\circ}$  to  $40^{\circ}$  C (32° to 104° F). The relative humidity must be 10% - 90% (non-condensing).

**NOTE:** When installing in an enclosure, high-voltage devices should be grouped separately from low-voltage devices.

The DIN-8SW8 is designed for installation on a DIN rail. Refer to the following diagram when installing.





- 1. Place the top of the DIN-8SW8's rail mount over the top of the DIN rail.
- 2. Tilt the bottom of the DIN-8SW8 toward the DIN rail until it snaps into place.

**NOTE:** When mounting DIN rail products, it may be necessary to use a flat-head screwdriver to pull the DIN rail release tab while snapping the device onto the DIN rail.

To remove the DIN-8SW8 from the DIN rail, use a small, flat object (i.e. a flat-head screwdriver) to pull the DIN rail release and tilt the bottom of the DIN-8SW8 away from the DIN rail.

**NOTE:** Certain third party DIN cabinets provide space for an informational label between each DIN rail row. Crestron's Engraver software (version 4.0 or later) can generate appropriate labels for all Crestron DIN rail products.

#### Hardware Hookup

Make the necessary connections as called out in the illustration that follows this paragraph. Refer to "Network Wiring" on page 10 before attaching the 4-position terminal block connector. Apply power after all connections have been made.

**WARNING:** Prior to connecting the device, turn off power at the circuit breaker. Failure to do so may result in serious personal injury or damage to the device. Restore power after all connections have been made.

**CAUTION:** Connecting this device to the wrong type of load or short-circuiting the load can cause severe product damage. Each load should be tested to identify a short circuit condition prior to wiring the load to the module.

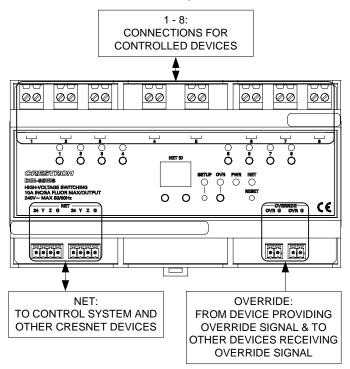
NOTE: Install in accordance with all local and national electric codes.

**NOTE:** High-voltage connections accept 2.5  $\text{mm}^2$  (12 AWG) wire. Wire should be stripped to 8 mm (1/3 inch). Tighten terminal blocks to 0.5 Nm (5 in-lbs).

**NOTE:** Use copper wire only. For high-voltage connections, use wire rated for at least 75° C (167° F).

**NOTE:** Each switch leg of the DIN-8SW8 may be fed from a separate circuit breaker.

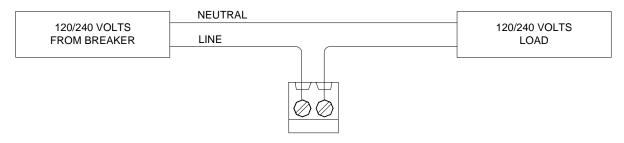
When making network connections to the DIN-8SW8, use a Crestron power supply.



Hardware Connections for the DIN-8SW8

With the circuit breaker turned off, connect the wires to the terminal blocks per the markings provided on the DIN-8SW8.

#### Load Connection Example for the DIN-8SW8



## **Programming Software**

#### Have a question or comment about Crestron software?

Answers to frequently asked questions (FAQs) can be viewed in the Online Help section of the Crestron website. To post a question or view questions you have submitted to Crestron's True Blue Support, log in at <u>http://support.crestron.com</u>. First-time users will need to establish a user account.

# Earliest Version Software Requirements for the PC

**NOTE:** Crestron recommends that you use the latest software to take advantage of the most recently released features. The latest software is available from the Crestron website.

Crestron has developed an assortment of Windows<sup>®</sup>-based software tools to develop a Cresnet system. You can create a program to control the DIN-8SW8 using the Crestron programming tools Crestron SystemBuilder, D3 Pro<sup>™</sup> or SIMPL Windows. Customers whose focus is on lighting systems may prefer to use the D3 Pro software since it is designed especially for creating lighting and environmental system control applications. Customers already familiar with SIMPL Windows who are including a lighting system as part of an overall control system project may prefer to continue using SIMPL Windows. For the minimum recommended software versions, visit the Version Tracker page of the Crestron website (www.crestron.com/versiontracker).

#### **Programming with Crestron SystemBuilder**

Crestron SystemBuilder is the easiest method of programming but does not offer as much flexibility as SIMPL Windows. For additional details, download SystemBuilder from the Crestron website and examine the extensive help file.

#### **Programming with D3 Pro**

Crestron's D3 Pro lighting software provides all the tools necessary to create a complete Crestron lighting system for residential applications. The lighting system includes the control system logic program, touchpanel projects and keypad programming, documentation and realtime lighting adjustment capabilities.

As with all Crestron software, D3 Pro provides extensive right-click and drag-and-drop functionality in addition to convenient keyboard shortcuts for frequently used functions and commands.

Programming is organized into six system **Views** of the lighting system, each providing a moveable toolbox of devices such as interfaces, fixtures and control modules. You can add a device to your system simply by selecting it from one of the toolboxes and dragging it to a room. The available toolboxes differ depending on the View but all Views include a "General" toolbox that allows you to add areas and rooms at any time.

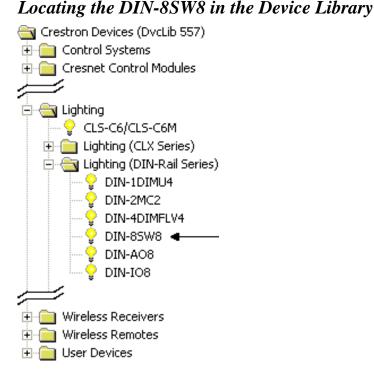
## **Programming with SIMPL Windows**

**NOTE:** While SIMPL Windows can be used to program the DIN-8SW8, it is recommended to use SystemBuilder for configuring a system.

SIMPL Windows is Crestron's premier software for programming Crestron control systems. It is organized into two separate but equally important "Managers".

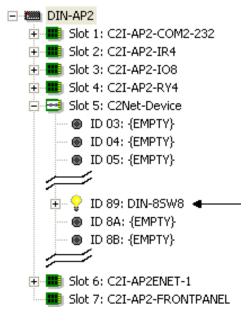
Configuration Manager Configuration Manager is the view where programmers "build" a Crestron control system by selecting hardware from the *Device Library*.

• To incorporate the DIM-8SW8into the system, drag the DIN-8SW8 from the Lighting | Lighting (Din-Rail Series) folder of the *Device Library* and drop it in the *System Views*.



# • The system tree of the control system displays the device in the appropriate slot with a default Net ID as shown in the following illustration.

#### C2Net Device, Slot 5



• Additional DIN-8SW8 devices are assigned different Net ID numbers as they are added.

• If necessary, double click a device to open the "Device Settings" window and change the Net ID, as shown in the following figure.

"DIN-8SW8 Device Settings" Window

I	Device Settings: Crestron DIN-8SW8	×
	Device Name Net ID Connection Sheet Device Info	
	Net ID: 89 💌	
	OK Cancel Apply	

• The ID code specified in the SIMPL Windows program must match the Net ID of each unit. Refer to "Identity Code" which starts on page 10.

Program Manager Program Manager is the view where programmers "program" a Crestron control system by assigning signals to symbols.

The symbol can be viewed by double clicking on the icon or dragging it into *Detail View*. Each signal in the symbol is described in the SIMPL Windows help file (**F1**).

#### **Example Program**

An example program for the DIN-8SW8 is available from the Crestron website (<u>www.crestron.com/exampleprograms</u>).

## **Uploading and Upgrading**

Crestron recommends using the latest programming software and that each device contains the latest firmware to take advantage of the most recently released features. However, before attempting to upload or upgrade it is necessary to establish communication. Once communication has been established, files (for example, programs or firmware) can be transferred to the control system (and/or device). Finally, program checks can be performed (such as changing the device ID or creating an IP table) to ensure proper functioning.

## **Establishing Communication**

Use Crestron Toolbox for communicating with the DIN-8SW8; refer to the Crestron Toolbox help file for details. There is a single method of communication: indirect communication.

#### Indirect Communication



- DIN-8SW8 connects to control system via Cresnet.
- Establish communication between the PC and the control system as described in the latest version of the 2-Series Control Systems Reference Guide (Doc. 6256), which is available from the Crestron website (<u>www.crestron.com/manuals</u>).
- Use the Address Book in Crestron Toolbox to create an entry for the DIN-8SW8 using the expected communication protocol (Indirect). Select the Cresnet ID of the DIN-8SW8 and the address book entry of the control system that is connected to the DIN-8SW8.
- Display the DIN-8SW8's "System Info" window (click the **i** icon); communications are confirmed when the device information is displayed.

Firmware

#### **Programs and Firmware**

Program or firmware files may be distributed from programmers to installers or from Crestron to dealers. Firmware upgrades are available from the Crestron website as new features are developed after product releases. One has the option to upload programs via the programming software or to upload and upgrade via the Crestron Toolbox. For details on uploading and upgrading, refer to the SIMPL Windows help file or the Crestron Toolbox help file.

*SIMPL Windows* If a SIMPL Windows program is provided, it can be uploaded to the control system using SIMPL Windows or Crestron Toolbox.

> Check the Crestron website to find the latest firmware. (New users may be required to register to obtain access to certain areas of the site, including the FTP site.)

Upgrade DIN-8SW8 firmware via Crestron Toolbox.

- Establish communication with the DIN-8SW8 and display the "System Info" window.
- Select **Functions** | **Firmware...** to upgrade the DIN-8SW8 firmware.

## **Program Checks**

Using Crestron Toolbox, display the network device tree (**Tools** | **Network Device Tree**) to show all network devices connected to the control system. Right-click on the DIN-8SW8 to display actions that can be performed on the DIN-8SW8.

Operat	tion
NET ID	Use the <b>NET ID</b> buttons to change the Net ID of the DIN-8SW8. For information on Net ID, refer to "Identity Code" which starts on page 10.
Manual Control	The state of each output can be manually controlled from the front panel.
Control	To toggle the output between off and on, tap the appropriate button $(1-8)$ . The corresponding LED illuminates and the output state is shown on the <b>NET ID</b> display ("oF" for off, "On" for on) for two seconds after the button is released.
	<b>NOTE:</b> The control system program may change the settings if the <i>Override</i> mode is not enabled.
Override Mode	The <i>Override</i> mode overrides the control system program and sets all of the output states to the stored override values. For instructions on saving override settings, refer to "Save Override Settings" on page 22.
	To enable <i>Override</i> mode, press and release the <b>OVR</b> button. The <b>OVR</b> LED flashes slowly.
	<b>NOTE:</b> If the <i>Override</i> mode was enabled from an external device (i.e. a contact closure is present on the <b>OVERRIDE</b> terminals), the <b>OVR</b> LED will flash quickly. Pressing the <b>OVR</b> button has no effect.
	To disable <i>Override</i> mode, press the <b>OVR</b> button again. The <b>OVR</b> LED extinguishes and the outputs return to the states set by the control system program.
	<b>NOTE:</b> If override states have not been stored, the factory default override state is all loads on.

Save Override Settings The state of each output can be saved as an override setting, which can be automatically recalled when the *Override* mode is enabled.

**NOTE:** The control system program has a setting that can prevent locally saving the override state. If this setting is enabled, the display shows "Er" when trying to save override states. For more information, refer to the SIMPL Windows help file.

To save the state of an output as an override setting, press and hold the **OVR** button for three seconds. The **OVR** LED blinks to indicate the new override setting has been stored.

*Reset* To reboot the DIN-8SW8, press the **RESET** button. The outputs will be set to the states currently specified by the control system program. If the control system does not provide any values, the outputs will be set to the previously set values.

## **Problem Solving**

## Troubleshooting

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Device does not function.	DIN-8SW8 is not receiving power.	Verify the DIN-8SW8 is connected to a Crestron power supply.
	Device is not receiving power from a Crestron power source.	Use a Crestron power source. Verify connections.
	Device is not receiving sufficient power.	Use the Crestron Power Calculator to help calculate how much power is needed for the system.
	Electrostatic discharge due to improper grounding.	Check that all ground connections have been made properly.
Unit ignores Cresnet commands.	Unit is in <i>Override</i> mode.	Take out of <i>Override</i> mode by pressing <b>OVR</b> button or releasing override contact closure.

#### DIN-8SW8 Troubleshooting

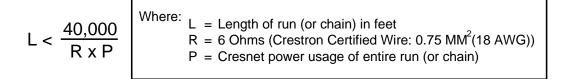
	-
Use the Right Wire	In order to ensure optimum performance over the full range of your installation topology, Crestron Certified Wire and only Crestron Certified Wire may be used. Failure to do so may incur additional charges if support is required to identify performance deficiencies because of using improper wire.
Calculate	
Power	<b>CAUTION:</b> Use only Crestron power supplies for Crestron equipment.
	Failure to do so could cause equipment damage or void the Crestron
	warranty.

#### **Check Network Wiring**

**CAUTION:** Provide sufficient power to the system. Insufficient power can lead to unpredictable results or damage to the equipment. Please use the Crestron Power Calculator to help calculate how much power is needed for the system (www.crestron.com/calculators).

When calculating the length of wire for a particular Cresnet run, the wire gauge and the Cresnet power usage of each network unit to be connected must be taken into consideration. Use Crestron Certified Wire only. If Cresnet units are to be daisy-chained on the run, the Cresnet power usage of each network unit to be daisy-chained must be added together to determine the Cresnet power usage of the entire chain. If the unit is home-run from a Crestron system power supply network port, the Cresnet power usage of that unit is the Cresnet power usage of the entire run. The wire gauge and the Cresnet power usage of the run should be used in the following equation to calculate the cable length value on the equation's left side.

#### Cable Length Equation



Make sure the cable length value is less than the value calculated on the right side of the equation. For example, a Cresnet run using  $0.75 \text{ mm}^2$  (18 AWG) Crestron Certified Wire and drawing 20 watts should not have a length of run more than 101 meters (333 feet). Cresnet HP cannot be used.

Add Hubs

**NOTE:** All Crestron certified Cresnet wiring must consist of two twisted pairs. One twisted pair is the +24V conductor and the GND conductor and the other twisted pair is the Y conductor and the Z conductor.

Strip and Tin Wire When daisy-chaining Cresnet units, strip the ends of the wires carefully to avoid nicking the conductors. Twist together the ends of the wires that share a pin on the network connector and tin the twisted connection. Apply solder only to the ends of the twisted wires. Avoid tinning too far up the wires or the end becomes brittle. Insert the tinned connection into the Cresnet connector and tighten the retaining screw. Repeat the procedure for the other three conductors.

Use of a Cresnet hub/repeater (DIN-HUB) is advised whenever the number of Cresnet devices on a network exceeds 20 or when the combined total length of Cresnet cable exceeds 914 meters (3000 feet).

#### **Reference Documents**

The latest version of all documents mentioned within the guide can be obtained from the Crestron website (<u>www.crestron.com/manuals</u>). This link will provide a list of product manuals arranged in alphabetical order by model number.

List of Related Reference Documents

DOCUMENT TITLE

2-Series Control Systems Reference Guide

## **Further Inquiries**

If you cannot locate specific information or have questions after reviewing this guide, please take advantage of Crestron's award winning customer service team by calling Crestron at 1-888-CRESTRON [1-888-273-7876].

You can also log onto the online help section of the Crestron website (<u>www.crestron.com/onlinehelp</u>) to ask questions about Crestron products. First-time users will need to establish a user account to fully benefit from all available features.

#### **Future Updates**

As Crestron improves functions, adds new features and extends the capabilities of the DIN-8SW8, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron website periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

#### **Return and Warranty Policies**

#### **Merchandise Returns / Repair Service**

- 1. No merchandise may be returned for credit, exchange or service without prior authorization from CRESTRON. To obtain warranty service for CRESTRON products, contact an authorized CRESTRON dealer. Only authorized CRESTRON dealers may contact the factory and request an RMA (Return Merchandise Authorization) number. Enclose a note specifying the nature of the problem, name and phone number of contact person, RMA number and return address.
- 2. Products may be returned for credit, exchange or service with a CRESTRON Return Merchandise Authorization (RMA) number. Authorized returns must be shipped freight prepaid to CRESTRON, 6 Volvo Drive, Rockleigh, N.J. or its authorized subsidiaries, with RMA number clearly marked on the outside of all cartons. Shipments arriving freight collect or without an RMA number shall be subject to refusal. CRESTRON reserves the right in its sole and absolute discretion to charge a 15% restocking fee plus shipping costs on any products returned with an RMA.
- 3. Return freight charges following repair of items under warranty shall be paid by CRESTRON, shipping by standard ground carrier. In the event repairs are found to be non-warranty, return freight costs shall be paid by the purchaser.

#### **CRESTRON Limited Warranty**

CRESTRON ELECTRONICS, Inc. warrants its products to be free from manufacturing defects in materials and workmanship under normal use for a period of three (3) years from the date of purchase from CRESTRON, with the following exceptions: disk drives and any other moving or rotating mechanical parts, pan/tilt heads and power supplies are covered for a period of one (1) year; touchscreen display and overlay components are covered for 90 days; batteries and incandescent lamps are not covered.

This warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer. Purchasers should inquire of the dealer regarding the nature and extent of the dealer's warranty, if any.

CRESTRON shall not be liable to honor the terms of this warranty if the product has been used in any application other than that for which it was intended or if it has been subjected to misuse, accidental damage, modification or improper installation procedures. Furthermore, this warranty does not cover any product that has had the serial number altered, defaced or removed.

This warranty shall be the sole and exclusive remedy to the original purchaser. In no event shall CRESTRON be liable for incidental or consequential damages of any kind (property or economic damages inclusive) arising from the sale or use of this equipment. CRESTRON is not liable for any claim made by a third party or made by the purchaser for a third party.

CRESTRON shall, at its option, repair or replace any product found defective, without charge for parts or labor. Repaired or replaced equipment and parts supplied under this warranty shall be covered only by the unexpired portion of the warranty.

Except as expressly set forth in this warranty, CRESTRON makes no other warranties, expressed or implied, nor authorizes any other party to offer any warranty, including any implied warranties of merchantability or fitness for a particular purpose. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supersedes all previous warranties.

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