

# Crestron **SP-RY** Relay Controller

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## Operations Guide



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# Relay Controller: SP-RY

## Description

### Functional Description

The SP-RY is a relay controller that allows easy control of devices needing low voltage contact closures. The relays can be programmed using momentary, latching, toggle and more through the Crestron software. The controller can be used with the SmartPresenter, SmarTouch ST-CP, and CNMSX systems.

**NOTE:** The SP-RY provides four relays. Each set of two shares a common ground.

### Physical Description

The SP-RY is a small unit with a permanently attached 3 ft. (91 cm) device cable. The device cable consists of six wires, with stripped and soldered ends. A 3ft. (91 cm) Serial Data Cable is supplied for connection to the SmartPresenter or the SmarTouch ST-CP systems.

*SP-RY: Top View*



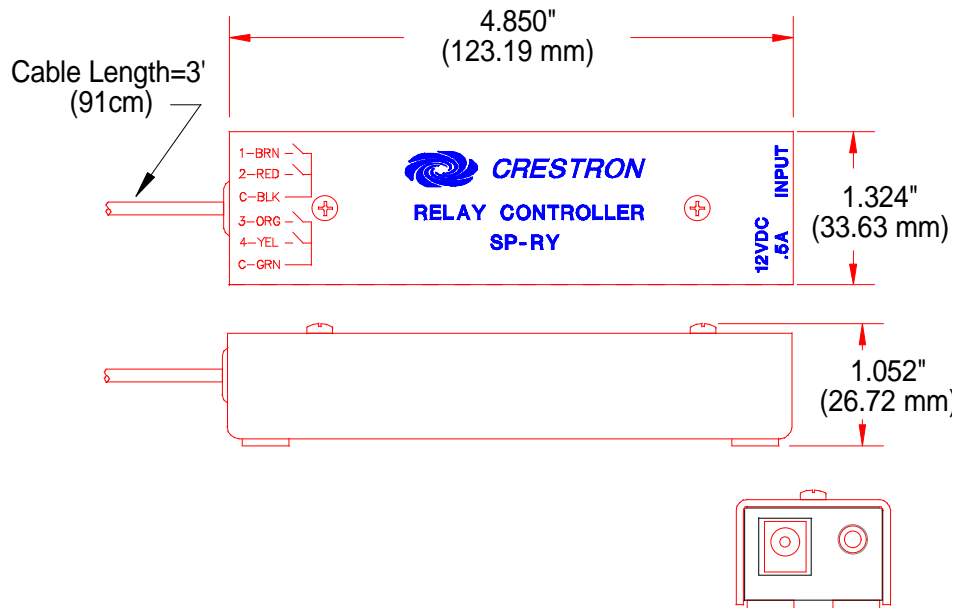
# Specifications

Dimensions:	Length Width Height	4.850" (123.19 mm) 1.324" (33.63 mm) 1.052" (26.72 mm)
Weight:		6.2 oz. (176 g)
Device Cable:	Length Conductors	3' (91 cm) (6) 22AWG
Serial Data Cable <sup>1</sup> :	Connector Type Length	3.5 mm, Straight, Stereo 3' (91.44 cm)
Serial Data Cable <sup>2</sup> :		Crestron p/n CNSP-112
12v DC Power Supply*:	Crestron p/n PW-1205 (USA and Canada)	Input 120V 60Hz 18W Output 12vDC 0.5A
	Crestron p/n PWI-1210 (International)	Input 230V 50Hz 110mA Output 12V---1.0A 12VA
Relay Ratings:		1A 30vDC 0.5A 30vAC
Software:	SIMPL™ Windows® VisionTools Pro™ Crestron Database	Version 1.20.04 or later Version 1.1.3 or later Version 11.7.207 or later

<sup>1</sup> For SmartPresenter and SmarTouch ST-CP (supplied)

<sup>2</sup> Required for use with CNMSX (Sold separately)

\* Required for use with SmarTouch ST-CP and CNMSX (sold separately)



# Setup

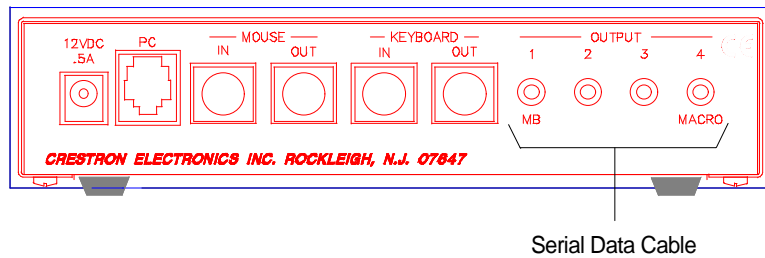
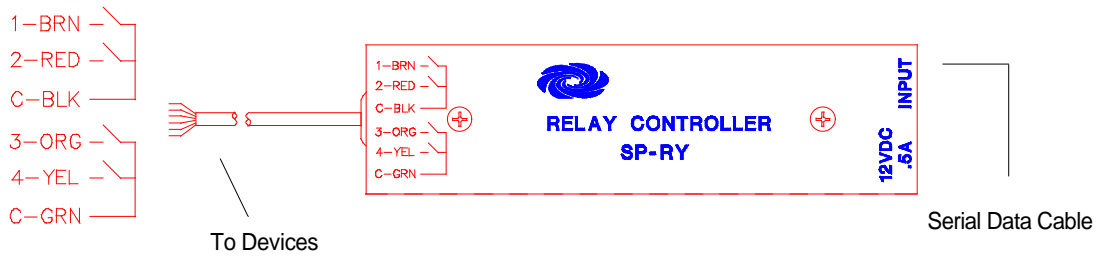
## SP-RY with SmartPresenter™

Connect the 3.5 mm, Serial Data Cable (supplied) to the input port on the SP-RY. Connect the other end of the cable to one of the outputs on the SP-1. The device cable should be connected to the appropriate devices.

To locate the Q-Code for the Relay Controller, refer to the latest revision of the SmartPresenter – *Quick Guide* (DOC. 5742).

**NOTE:** An external power supply is not necessary when using the SP-RY with the SmartPresenter system.

Connect SP-RY to SP-1 and Devices.



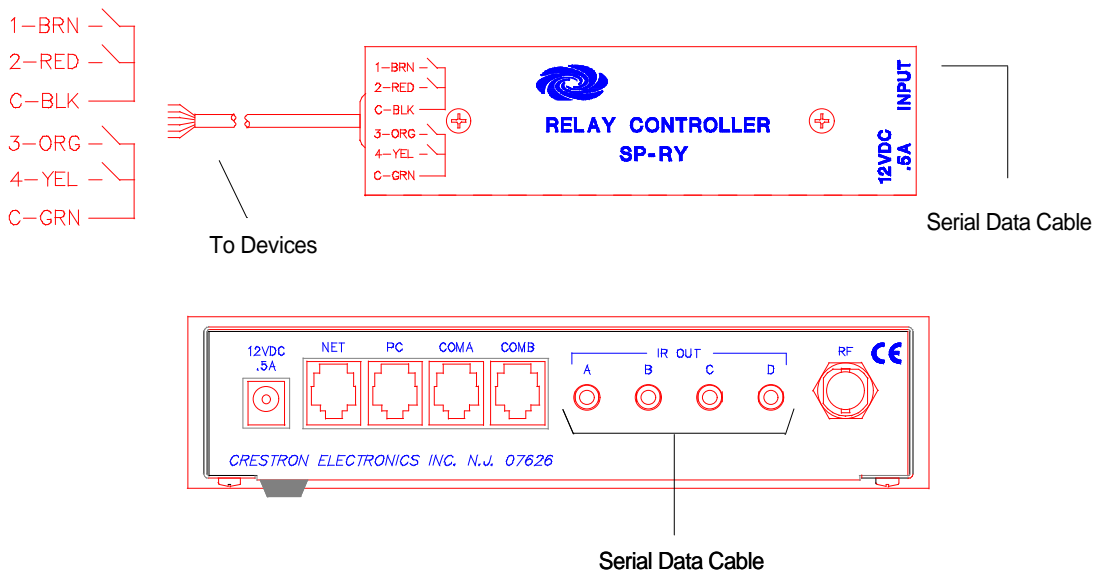
## SP-RY with SmarTouch™ ST-CP

Connect the 3.5 mm, Serial Data Cable (supplied) to the input port on the SP-RY. Connect the other end of the cable to one of the outputs on the ST-CP. The cable should be connected to the appropriate control device.

To program the ST-CP for the Relay Controller, refer to the SmarTouch STS Wizard included with VisionTools Pro™ or the latest revision of Crestron's SIMPL™ Windows® programming software (v 1.20.04 or later) and the latest version of the Crestron Database (v 11.7.207).

**NOTE:** An external power supply must be used when using the SP-RY with the SmarTouch ST-CP system.

Connect SP-RY to ST-CP





## SP-RY with CNMSX

The SP-RY can be used with a variety of Crestron systems, including the CNMSX. When used with a CNMSX there are additional hardware requirements.

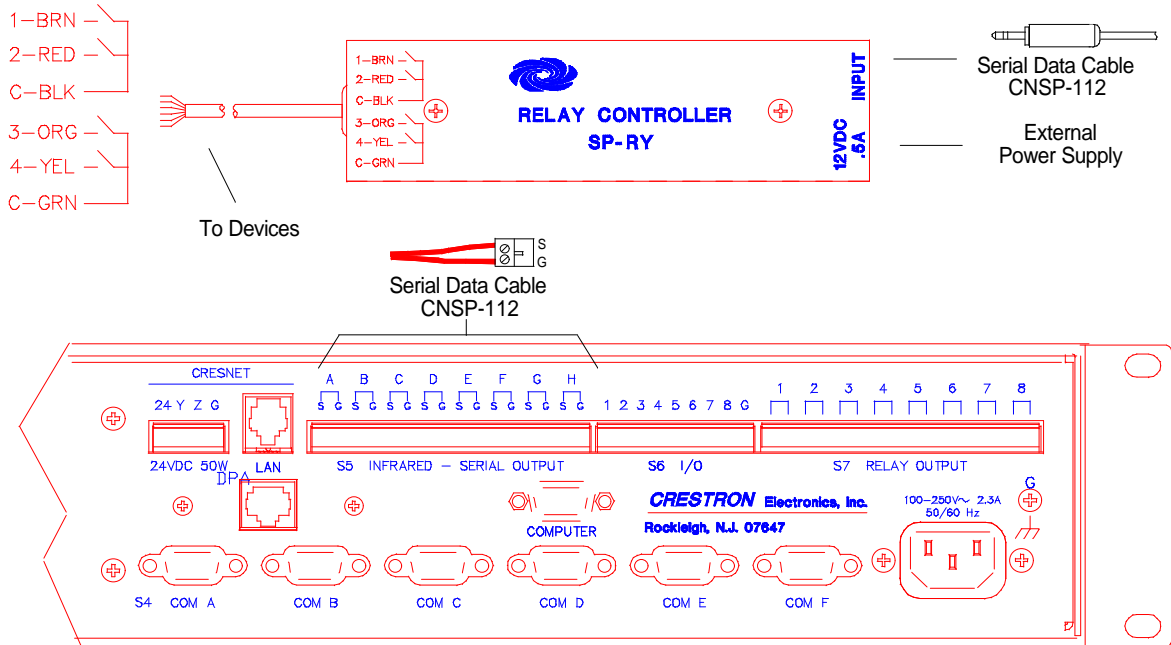
- A specially designed Serial Data Cable is required (p/n **CNSP-112**).
- An external power supply is required. Refer to "Specifications" on page 2 for part number and input/output voltage specifications.

Connect the stereo plug of the CNSP-112 into the input port of the SP-RY. Connect the Phoenix type connector to of the CNSP-112 to one of the IR output ports on the CNMSX.

To program the CNMSX for the Relay Controller, refer to the latest revision of Crestron's SIMPL™ Windows® programming software (v 1.20.04 or later) and the latest version of the Crestron Database (v 11.7.207).

**NOTE:** An external power supply must be used when using the SP-RY with the CNMSX system. A CNSP-112 Serial Data Cable is also required.

Connect to CNMSX



# Programming

## SmartPresenter™ SP-1

The SmartPresenter is field programmable and does not require a PC. Refer to the latest revision of the SmartPresenter – *Quick Guide* (DOC. 5742). SmartPresenter software is available, however, it is only necessary for changing drivers, cloning SP-1 machines, and updating firmware.

## SmarTouch™ ST-CP

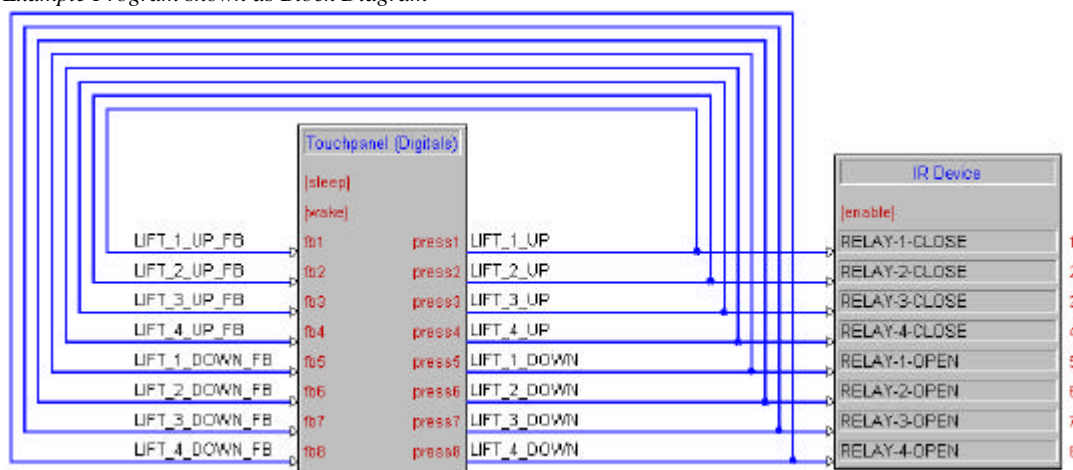
The SmarTouch systems are easily programmed using the SmarTouch STS Wizard. In several easy steps a SmarTouch system can be programmed and up-loaded. The STS Wizard is available in VisionTools Pro™ software.

SmarTouch systems may also be custom programmed using Crestron's easy-to-use SIMPL™ Windows® and VisionTools Pro™ software.

## CNMSX

The CNMSX is programmed using Crestron's easy-to-use SIMPL™ Windows® software.

Example Program shown as Block Diagram



This example allows a touchpanel to control a lift via the IR-Device (SP-RY). Feedback is provided to alert the touchpanel user that a button is, in fact, being pressed. The IR Device represents the driver for the SP-RY. This SP-RY driver can be located in the Crestron Database (version 11.7.207 or later).

## Problem Solving

### Troubleshooting

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
SP-RY not functioning.	<b>SmartPresenter</b> Q-Code incorrect	Verify that the correct Q-Code for the device has been assigned.
	<b>SmarTouch ST-CP /CMMSX</b> Incorrect Driver Selected	Select the correct driver from the Crestron database.
	No 12v power supply	12v power supply must be used (see "Specifications" on page 2).

### Further Inquiries

If after reviewing this Operations Guide, you cannot locate specific information or have questions, please take advantage of Crestron's award winning technical support team by calling:

- In the US and Canada, call Crestron's corporate headquarters at 1.888.CRESTRON [1.888.273.7876] or 1.201.767.3400.
- In Europe, call Crestron International at +32.15.50.99.50.
- In Asia, call Crestron Asia at +852.2341.2016.
- In Latin America, call Crestron Latin America at +525.574.15.90.

For local support from exclusive Crestron factory trained personnel call:

- In Australia, call Soundcorp at +613.941.61066.
- In New Zealand, call Amber Technologies at +649.410.8382.

## 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 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, Cresskill, 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 Cresnet products, denoted by a "CN" prefix model number, to be free from manufacturing defects in materials and workmanship for a period of three (3) years from the date of shipment to purchaser. Disk drives and any other moving or rotating mechanical parts are covered for a period of one (1) year. CRESTRON warrants all its other products for a period of one year from the defects mentioned above, excluding touchscreen display components which are covered for 90 days. Incandescent lamps are completely excluded from Crestron's Limited Warranty. 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.

CRESTRON shall not be liable to honor warranty terms 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 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 makes no other warranties nor authorizes any other party to offer any warranty, expressed or implied, including warranties of merchantability for this product. This warranty statement supersedes all previous warranties.

#### Trademark Information

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