

Crestron **CNCRMCS**

Current Sensor for Room Solution Boxes

Operations Guide



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Current Sensor for Room Solution Boxes: CNXXRMCS

Introduction

The Current Sensor for Room Solution Boxes, CNXXRMCS, senses the current from a television (9" color or larger) or other high current electronic devices. Since most infrared (IR) remotes send the same IR signal to turn a device ON or OFF (no discrete on and off power commands), the CNXXRMCS lets the control system know whether a device is ON or OFF by indicating a high (ON, which indicates high current draw) or low (OFF, which indicates low or no current draw) digital signal to a Room Solution Box, such as the CNXXRMC, CNXXRMCLV, or to an I/O port on any control processor.

NOTE: The CNXXRMCS is not designed for use with low power devices such as a VCR, DVD, DSS, etc.

Functional Summary

- Senses current draw from 9 inch or larger televisions
- 2-pin connector interface to Room Solution Boxes
- 6-foot cord included

Specifications

The following table provides a summary of specifications.

Specifications of the CNXXRMCS

SPECIFICATION	DETAILS
Maximum AC Load	1 KW (10A @ 120VAC)
Minimum Trigger Current	Typically, 1A resistive load (non-adjustable). Threshold is lower for normal loads such as a television.

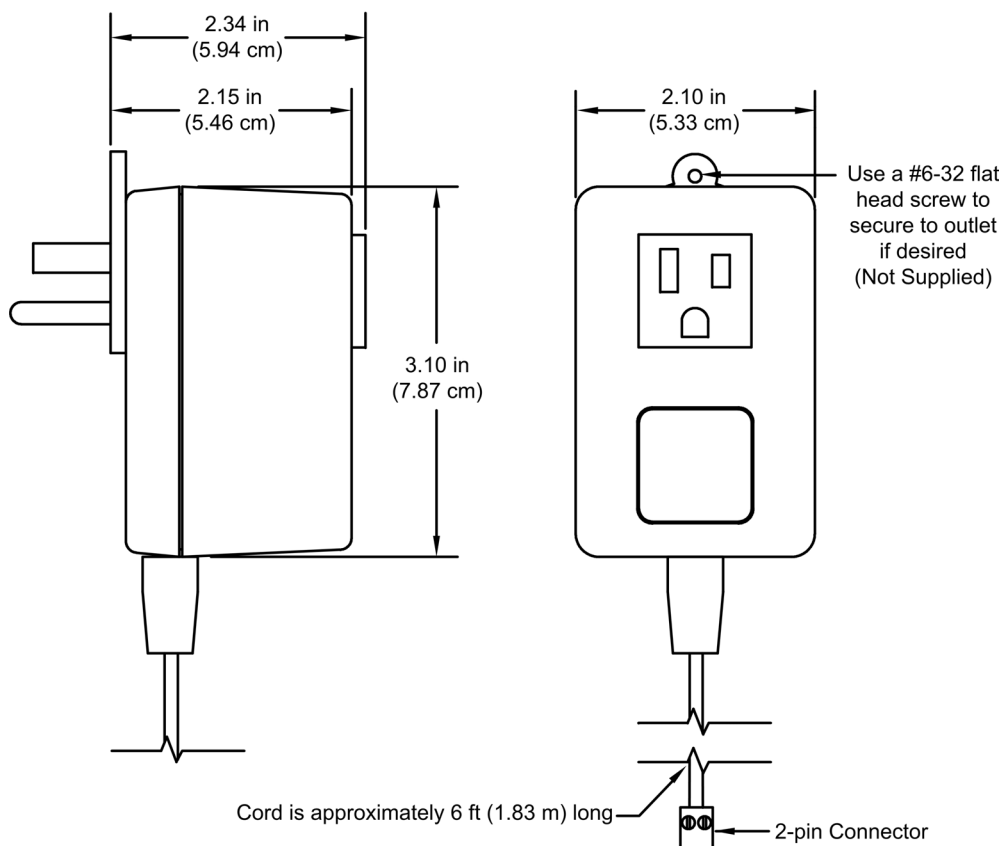
Specifications continued on the next page.

Specifications of the CNXRMCS - continued

SPECIFICATION	DETAILS
Dimensions & Weight	Height: 3.10 in (7.87 cm) Width: 2.10 in (5.33 cm) Depth: 2.34 in (5.94 cm) Cord Length: Approximately 6 ft (1.83 m) Weight: 1.60 oz (0.20 kg)

Physical Description

Refer to the physical views in the following illustration. The CNXRMCS contains an AC plug on one side and an AC outlet on the other. The cord to the 2-pin connector is approximately six feet long and is polarized with the solid black wire for ground and the striped wire as the signal wire. The connector attaches to the SENS port of a Room Solution Box.

CNXRMCS Physical Views

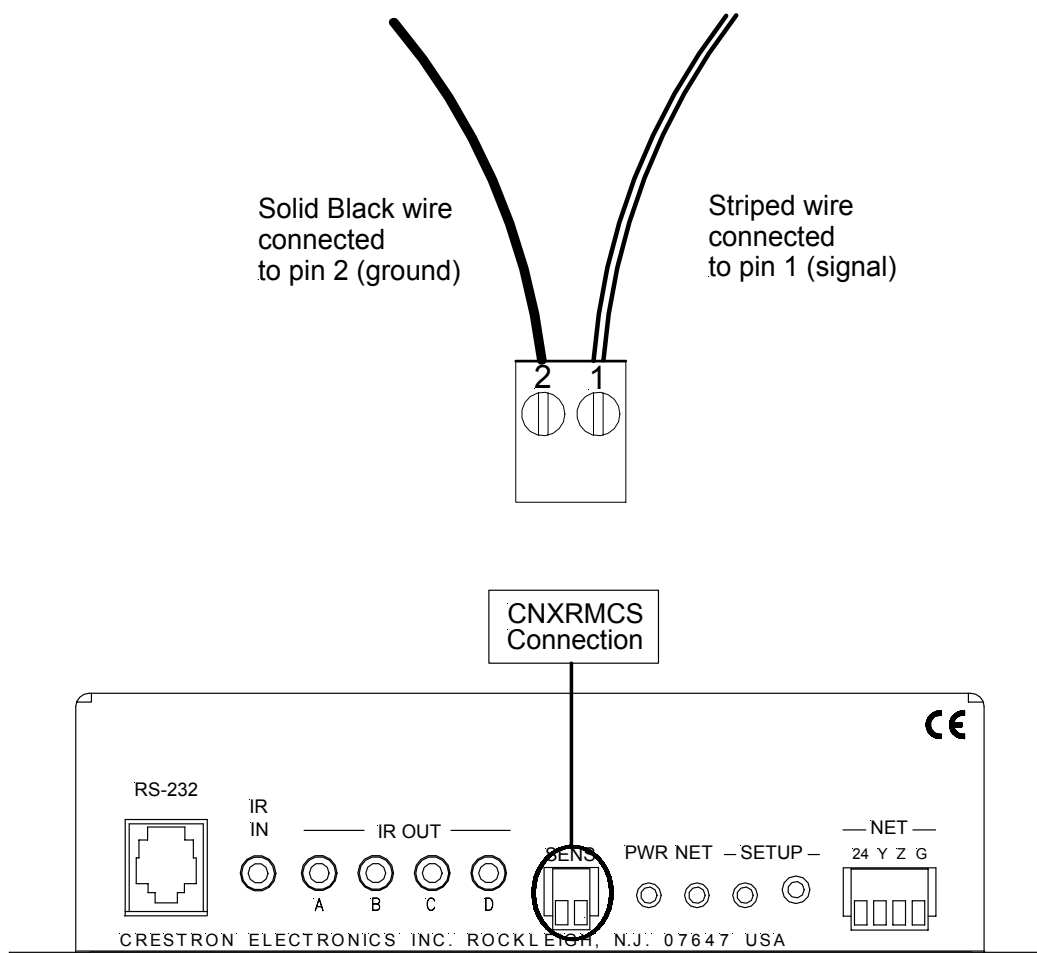
Setup

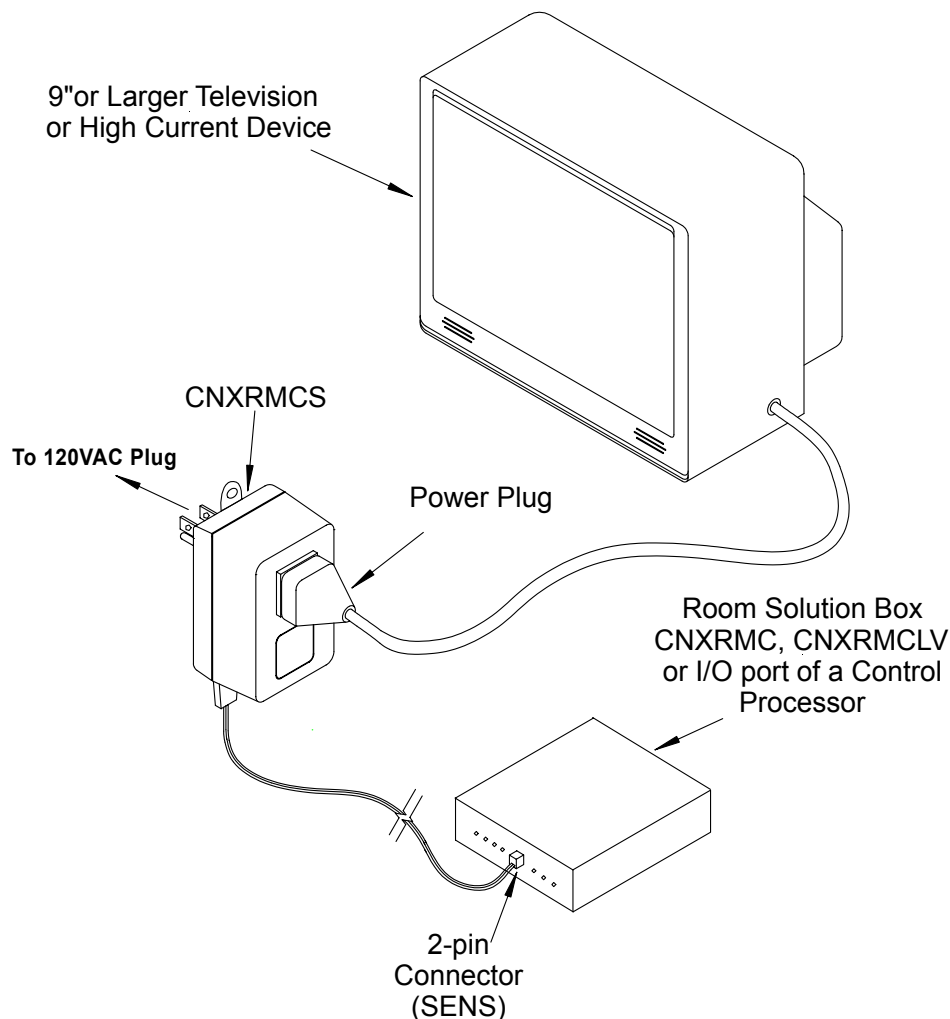
Connector Wiring

Insert the 2-pin connector in the current sensor connection (labeled “SENS”) on a Room Solution Box. The solid black wire of the digital connector cord must be attached to pin 2 (G or ground pin) of the connector and the striped wire must be attached to pin 1 (signal).

Plug the CNXRMC S in an AC outlet and the high current device in the CNXRMC S. Refer to the following illustrations.

CNXRMC S Connector Wiring



CNXXMCS Hookup Diagram**Programming**

For a control system to recognize the ON/OFF state of a high current device from the CNXXMCS, a program must be created in SIMPL Windows. The <Current Sense> output goes high when the monitor (i.e., television) in the room is on, and low when the monitor is off. The CNXXMCS provides a contact closure and is attached to the two-pin port (labeled SENS) on the CNXXRMC or CNXXRMCLV. Refer to the latest version of the CNXXRMCLV (Doc. 8161) Operations Guide in the Downloads | Product Manuals section of the Crestron website (www.crestron.com) for more information.

Problem Solving

Troubleshooting

The table below provides corrective action for possible problems with the CNXXRMCS. If further assistance is required, please contact a Crestron customer service representative.

CNXXRMCS Troubleshooting

TROUBLE	POSSIBLE CAUSES	CORRECTIVE ACTION
Room Solution Box not sensing television OFF/ON status.	Television or other high current device not drawing enough current to trigger CNXXRMCS.	If the device does not draw enough current, Crestron recommends that you use the ST-CS or CNCS Current Sensors. Refer to the latest revisions of the ST-CS (DOC. 5677) or CNCS (DOC. 8079) Operation Guides, in the Downloads Product Manuals section of the Crestron website (www.crestron.com) for more information.
	Television not operating properly.	Verify that the television turns OFF/ON manually.
	CNXXRMCS digital output wires or connector not firmly connected.	Verify that each digital output wire and the 2-pin connector are firmly connected.
No power to television or other high current device.	CNXXRMCS is not receiving power.	Confirm that the power outlet has AC voltage and that the CNXXRMCS is firmly plugged in the outlet.
	CNXXRMCS is not transferring power to its outlet.	Confirm that the CNXXRMCS outlet has AC when plugged in the power outlet and the high current device plug is firmly plugged in the CNXXRMCS outlet.

Further Inquiries

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

- In the US and Canada, call Crestron's corporate headquarters at 1-888-CRESTRON [1-888-273-7876].
- 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 +5255-5093-2160.
- In Australia and New Zealand, call Crestron Control Solutions at +61-2-9737-8203.

Future Updates

As Crestron improves functions, adds new features, and extends the capabilities of the CNCRMCS, 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 (www.crestron.com) periodically for manual update availability and its relevance. Updates are available from the Download | Product Manuals section and 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 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 supercedes all previous warranties.

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Specifications subject to
change without notice