

Crestron **CNTV-CS**  
Current Sensor for CNTV

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Operations Guide



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# Current Sensor for CNTV: CNTV-CS

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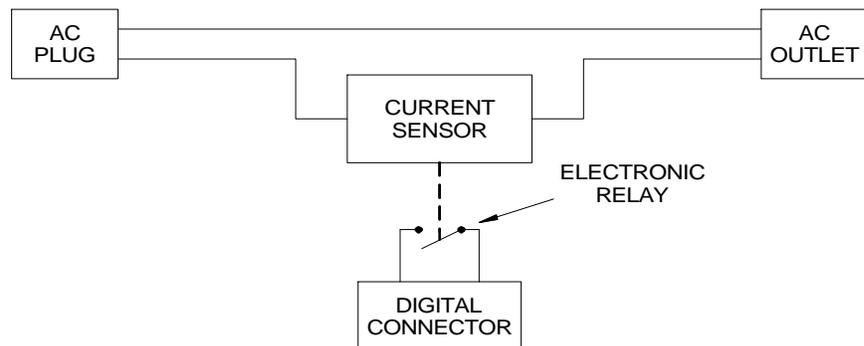
## Description

### Functional Description

The Current Sensor for CNTV, CNTV-CS, senses whether a single television set (9" color or larger) is OFF or ON. The CNTV-CS senses the current used by the television that is connected to it, a large current indicates that the set is ON and the absence of (or very low) current indicates that the set is OFF. The current threshold is non-adjustable. If the CNTV-CS detects that the set is ON, the CNTV (or other Cresnet processor) will not attempt to turn it ON which would inadvertently turn the set OFF.

The electronic relay of the CNTV-CS is internally protected against polarity reversal and does not generate any voltage across the terminals. The terminals represent a contact closure, the digital signals are high for open or low for closed. The digital connector provides the current sensor status to the CNTV-CS.

*Simplified Block Diagram*

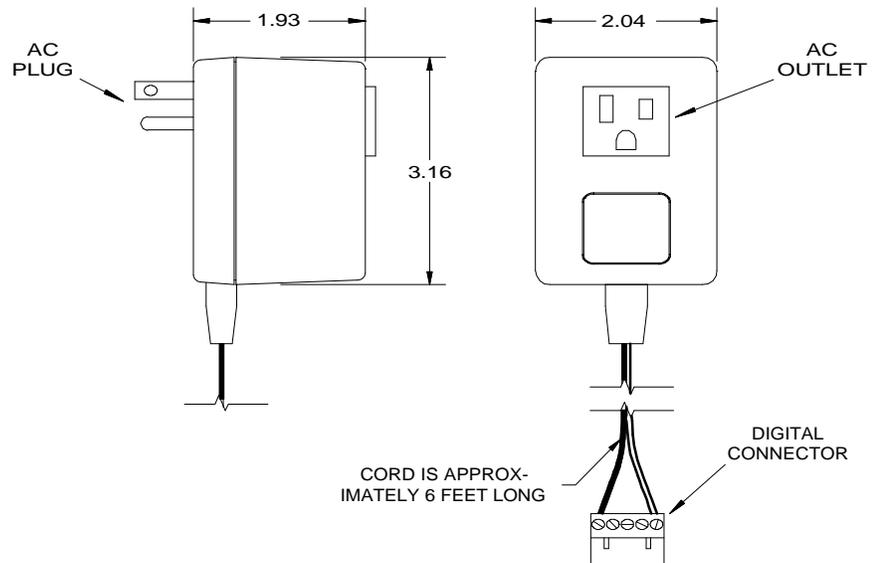


### Physical Description

Refer to the physical views shown after this paragraph. The CNTV-CS contains an AC plug on one side and an AC outlet on the other. The cord to the digital connector

is approximately six feet long and is polarized with the black wire for ground (G) and the black with white-stripe wire as the “hot” wire. The connector attaches to the digital input of the CNTV.

*CNTV-CS Physical Views*



## Leading Specifications

The table below provides a summary of leading specifications for the CNTV-CS. Dimensions and weight are rounded to the nearest hundredth unit.

*Leading Specifications of the CNTV-CS*

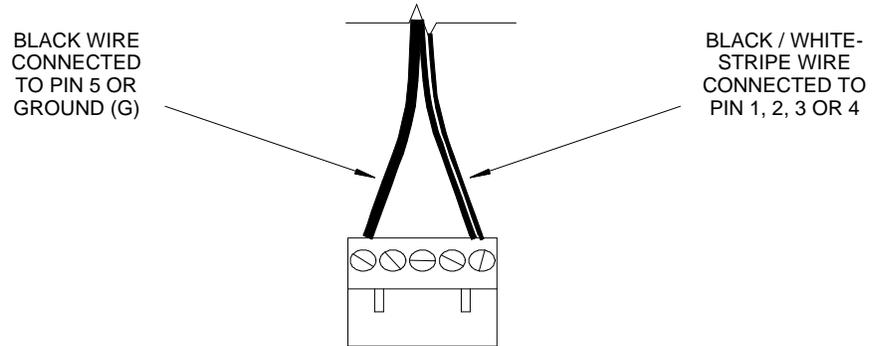
SPECIFICATION	DETAILS
Maximum AC load	10A, 1KW at 120VAC
Contact Closure	Open or Closed
Contact Closure Impedance	100 ohms
Dimensions & Weight	Height: 3.16 in (8.03 cm) Width: 2.04 in (5.18 cm) Depth: 1.93 in (4.90 cm) Cord Length: 6 ft (1.83 m) approx. Weight: 1.60 oz (0.20 kg)

## Setup

### Digital Connector Wiring

The digital connector of the CNTV-CS provides the current sense to the CNTV (or other Cresnet processor). The black wire of the CNTV-CS cord must be attached to pin-5 (G or ground pin) of the connector and the black with white-stripe wire may be attached to either pin-1, 2, 3, or 4. The CNTV must be programmed to recognize which pin is used.

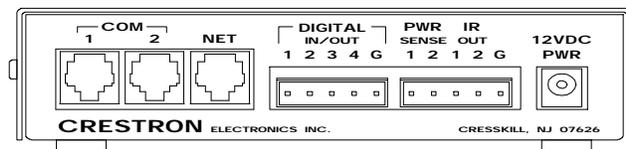
*Digital Connector Wiring*



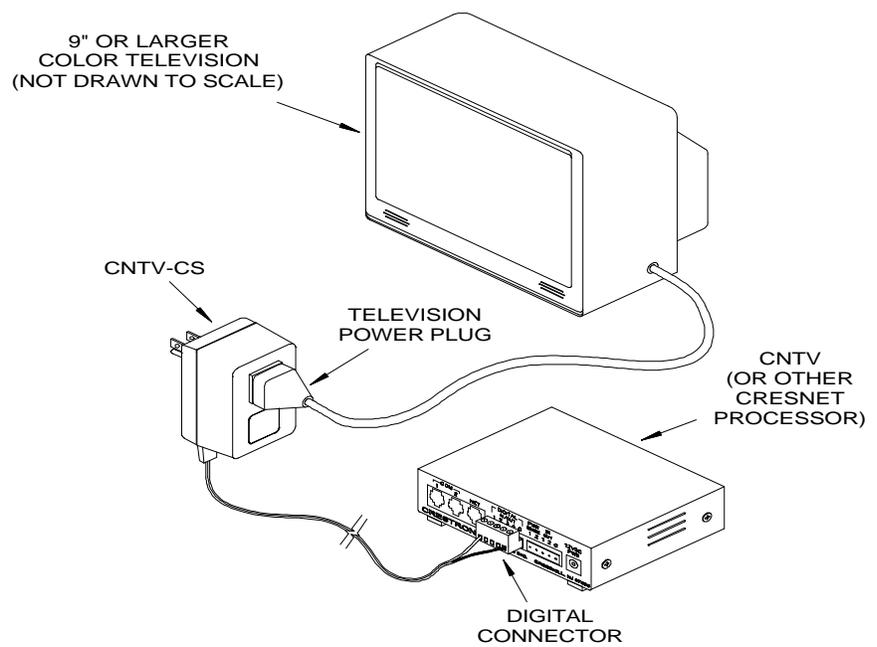
**Hookup**

Refer to the two diagrams after this paragraph. The CNTV-CS should be plugged into an AC outlet and the television to be current sensed is plugged into the CNTV-CS. The digital connector of the CNTV-CS is attached to the DIGITAL IN/OUT back panel connector of the CNTV.

*CNTV Back Panel Reference Diagram*



*CNTV-CS Hookup Diagram*



## Programming

The CNTV-CS does not require programming. The program of the CNTV determines how the digital input from the CNTV-CS is recognized. Refer to CNTV Operations Guide (latest revision of Doc. 8105) for further information.

## Problem Solving

### Troubleshooting

The table below provides corrective action for possible trouble situations of the CNTV-CS. If further assistance is required, please contact a Crestron technical support representative.

#### *CNTV-CS Troubleshooting*

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
CNTV (or other Crestron processor) not sensing television OFF/ON status.	Television not drawing enough current to trigger CNTV-CS.	Make sure the television is at least a 9-inch color.
	Television not operating properly.	Verify that the television turns OFF/ON manually.
CNTV-CS not sensing current.	CNTV-CS is not receiving power.	Confirm that power outlet has AC voltage and CNTV-CS is firmly plugged into outlet.
	CNTV-CS is not transferring power to its outlet.	Confirm that CNTV-CS outlet has AC when plugged into power outlet and television plug is firmly plugged into the CNTV-CS outlet.
	CNTV-CS digital output wires or connector not firmly connected.	Verify that each digital output wire and the digital connector is firmly connected.
	CNTV (or other Crestron processor) not programmed for CNTV-CS digital connector pins.	Verify that CNTV (or other Crestron processor) is programmed to recognize the digital input pin (1, 2, 3 or 4) of the CNTV-CS connector.

### Further Inquiries

If after reviewing this Operations Guide for the CNTV-CS, 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.

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## 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.

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