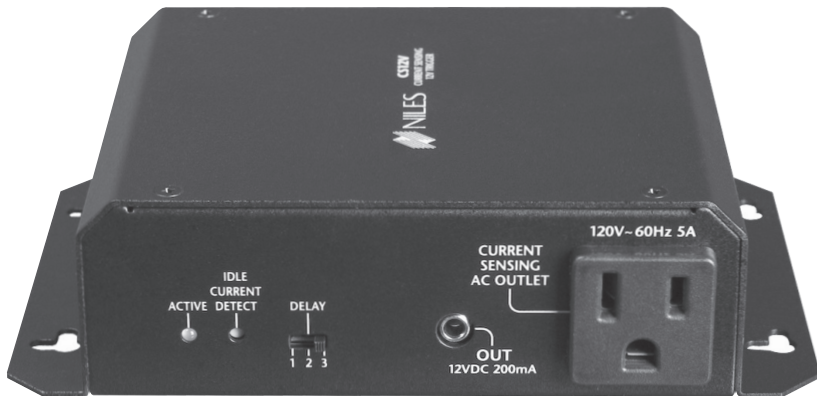


## INSTALLATION GUIDE



## CURRENT SENSING 12VOLT TRIGGER

# CS12V

## CONGRATULATIONS!

Thank you for choosing the **CS12V** from Niles. With proper installation and operation, you should enjoy years of trouble-free use.

Niles manufactures the industry's most complete line of custom installation components and accessories for audio/video systems. To see the complete Niles product assortment, visit us on the Internet at: [www.nilesaudio.com](http://www.nilesaudio.com)

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## INTRODUCTION

A current sensing trigger enables you to activate voltage controlled devices by simply turning another device on. For example, you can trigger an electric lift by turning your television on. The CS12V provides this capability in a compact, easy to install package. The CS12V is compatible with virtually any electrical device because of its ability to sense the current draw of whatever is plugged into it.

## FEATURES AND BENEFITS

The CS12V offers a number of improvements over other current sensing devices:

- *Universal system — Unique current sensing circuit makes the CS12V compatible with virtually any 110V electrical device*
- *Output is a constant 12V DC/200mA — Sufficient for triggering virtually any low voltage device*
- *Compact footprint — Provides easy installation in unusual locations (i.e. behind a plasma display)*
- *No programming — Current sensing circuitry remembers current draw of device after installation*
- *Printed circuit board design — Assures high reliability and long life*
- *CSA US and Canada Listed*
- *Two year parts and labor warranty*

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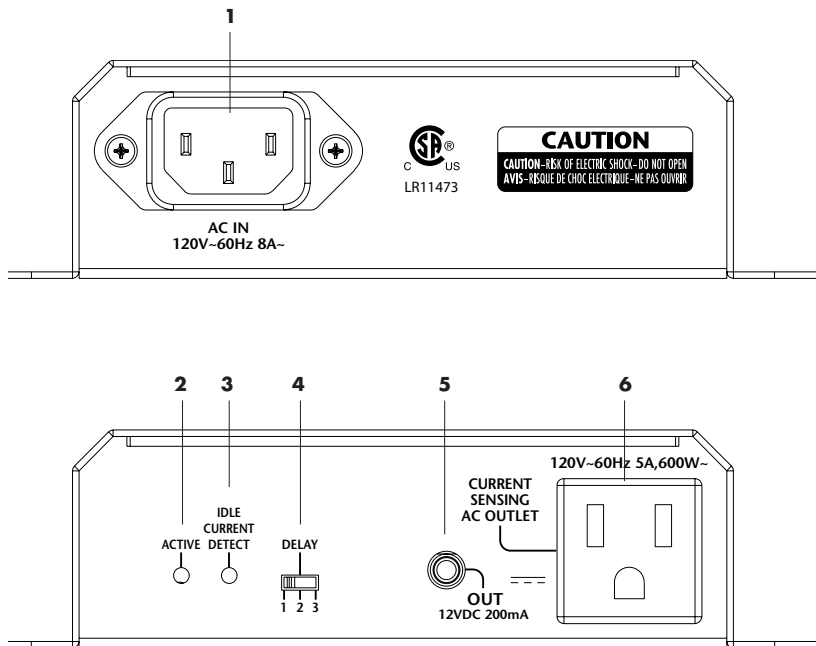
## INSTALLATION CONSIDERATIONS

### CS12V PRODUCT OVERVIEW

#### See Figure 1

1. *AC Plug – Supplied 3 prong 16 gauge power cord provides power to CS12V*
2. *Active light – Bicolor LED indicates when CS12V is active*
3. *Idle Current Detect button – Sets current sensing “memory” for the component’s off position*
4. *Delay – Provides three different delays for 12 volt triggering (0 seconds, 5 seconds and 10 seconds)*
5. *12V DC output – 3.5mm jack provides 12V DC/ 200mA output*
6. *Current Sensing AC outlet – Trigger device (i.e. plasma display) is plugged into AC outlet*
7. *Power supply cord is used as a means for disconnection of power (install so power supply cord is accessible).*

**Figure 1:**  
CS12V Product Overview

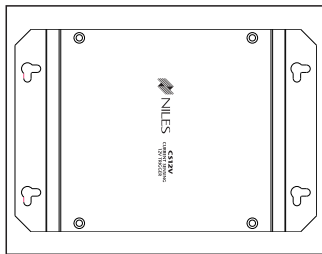


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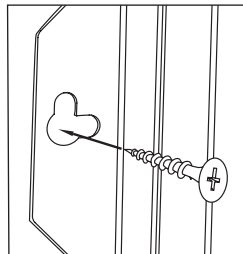
## PLACEMENT OF THE CS12V

Place the CS12V conveniently close to the component it will be connected to. Generally, the CS12V is placed in a concealed location because its indicator lights are only used during installation. Placement possibilities include:

1. *Table-top – on the floor or shelf behind the equipment* **Figure 2.**
2. *Wall-mount – affixed to the back of the equipment cabinet or a nearby wall* **Figure 3.**



**Figure 2:** Table-top (on the floor or shelf behind the equipment).

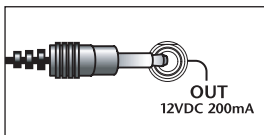


**Figure 3:** Wall-mount (affixed to the back of the equipment cabinet or a nearby wall)

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## INSTALLATION

Before you begin, make sure the AC power and 12VDC power cables will both reach an unswitched AC outlet. If necessary, terminate the wire that will be used for 12VDC triggering with a 3.5mm mono plug, with the tip being positive and the sleeve as ground **Figure 4**.



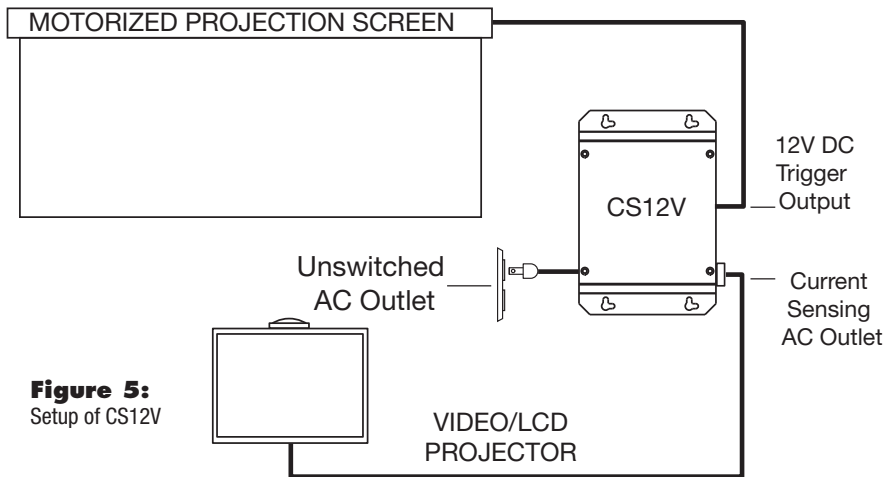
**Figure 4**

### IMPORTANT

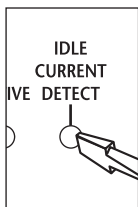
Make all final connections to the CS12V before connecting the AC power supply.

1. Plug the component's AC power cable into the current sensing outlet.
2. Plug the 12VDC trigger output cable into the 12VDC output 3.5mm jack.
3. Ensure the trigger cable is properly connected to the device being triggered.
4. Plug the female end of the supplied AC power cable into the CS12V.
5. Plug the male end of the AC power cable into an unswitched AC outlet (this equipment must be grounded).

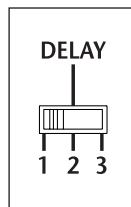
**SEE FIGURE 5 FOR SYSTEM DIAGRAM.**



**Figure 5:**  
Setup of CS12V



**Figure 6**



**Figure 7**



## OPERATION

### SETTING THE OFF STATE OF THE CONNECTED COMPONENT

Operating the CS12V is a simple matter of setting the “OFF” state of the connected component. Many components exhibit a small current draw even when they’re turned off. To calibrate the CS12V to properly account for this residual current draw:

1. *Make sure the component is plugged into the current sensing outlet of the CS12V and is turned off.*
2. *Using a small jewelers screwdriver press the recessed “Idle Current Detect” button until the Active light illuminates, flashes twice, and goes off (Figure 6).*

The CS12V will automatically detect the current draw of the connected component in its “OFF” state. Whenever the connected source component is turned on the CS12V will sense the current draw of the unit and activate the 12VDC 200mA output.

### SELECTING THE 12V DC TRIGGER TURN ON DELAY

In certain system designs, it may be desirable to delay the triggering of a device (i.e., waiting for a video projector to activate before dropping the screen). The CS12V provides three delay settings (Figure 7). The turn on delay is set by simply moving the “delay” switch to the desired position.

#### THESE POSITIONS ARE:

*Position 1: 0 seconds,*

*Position 2: 5 second delay before trigger is activated*

*Position 3: 10 second delay before trigger is activated*

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## SPECIFICATIONS

**Trigger Voltage Output:**

200mA

**Unit Dimensions:**

6" wide x 1 3/4" high x 4 1/2" deep

**Shipping Weight:**

1 lb.

## LIMITED WARRANTY

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