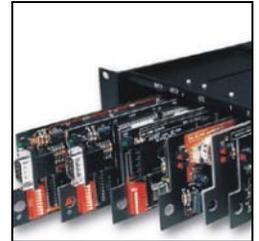




instruction manual

VSS2

Video Sync Sensor



Control System Accessories

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Product Information

The AMX VSS2 Video Sync Sensor (Figure 1) is equipped with two independent channels to detect video sync signals. The channels generate a logic-level output when a horizontal sync signal is detected.

You can use the VSS2 for systems that require true power status for a VCR, tuner, or satellite receiver. The VSS2 monitors the video output of each source and sends a logic signal to an AMX input port in the AXCESS Central Controller. You can also use the logic signal output to control AMX closure-driven peripherals such as a PC1 Power Controller. Since most video source equipment generates blue screen video output when they are on, the VSS2 can sense true on and off status.

Front Panel

FIG. 1 illustrates the front panel of the VSS2.

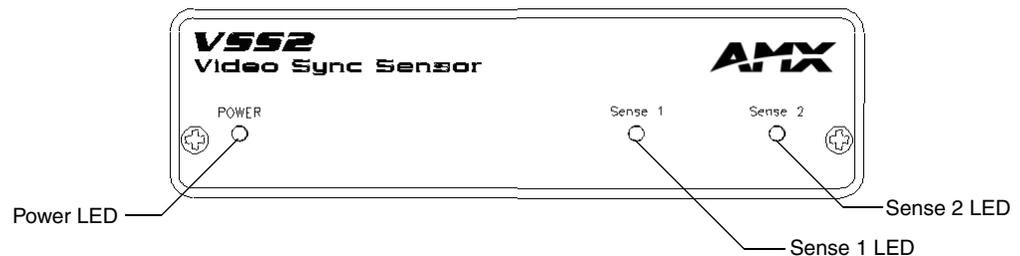


FIG. 1 Front Panel

Rear Panel

FIG. 2 illustrates the rear panel of the VSS2.

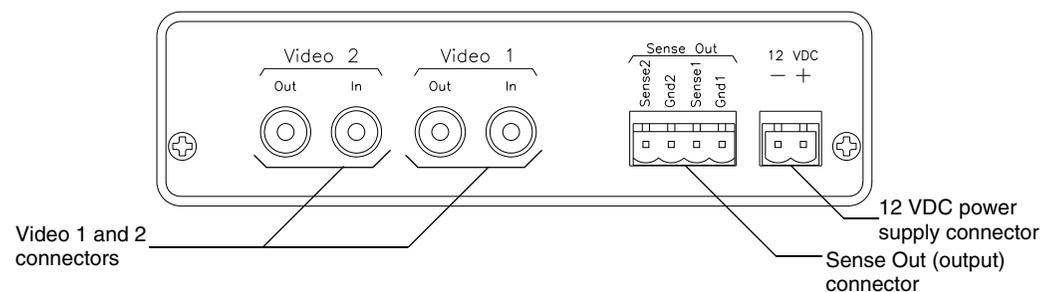


FIG. 2 Rear Panel

Applications

Figure 3 shows a sample VSS2 system configuration with a 12 VDC power supply, television manager, and two video devices (VCRs).

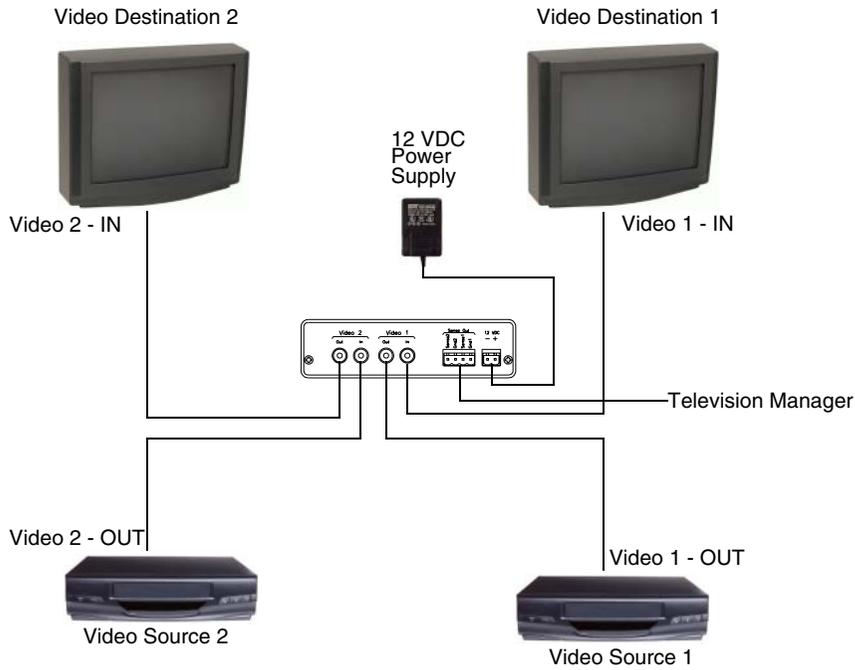


FIG. 3 Sample VSS2 system configuration

Features

The VSS2 features include the following:

- Two independent video sync sensing channels
- Two RCA jacks for each channel to allow loop-through operation
- Two solid-state outputs that send a logic low signal when video sync is present
- Front-panel LEDs that display on/off status for each channel
- Compatible with all AMX solid-state and closure input ports

Specifications

The table below lists the specifications for the VSS2 Video Sync Sensor.

Specifications	
Power Supply	12 VDC at 20 mA
Power Consumption	2.4 W maximum
Sensitivity	<ul style="list-style-type: none"> • Video - 800 mV (typical), 5V (max) • Sync - 15.75 kHz • Sensing - 1 kHz to 3 MHz (200 mV rms minimum), 3 MHz to 20 MHz (600 mV rms minimum), and 20 MHz to 75 MHz (750 mV rms minimum) • RGB Sensing - Sync on Green, Horizontal Sync • Output - Open collector with internal pull-up to 5 volts and solid-state logic low when sync is present.
Front Panel	<ul style="list-style-type: none"> • Power - Green LED indicator • Sense 1 - Red LED lights when signal is within sensing range • Sense 2 - Red LED lights when signal is within sensing range
Rear Panel	<ul style="list-style-type: none"> • Video 1 - RCA jacks for OUT and IN • Video 2 - RCA jacks for OUT and IN • Sense Out 1 and 2 - 4-pin Phoenix connector • 12 VDC-2-pin Phoenix connector • Delay - None (input connected directly to output)
Enclosure	Metal with black matte finish
Dimensions (HWD)	1.5" x 5.09" x 5.27" (3.81 cm x 12.93 cm x 13.39 cm)
Weight	6.70 oz (189.94 g)
Included Accessories	<ul style="list-style-type: none"> • One 4-pin cable connector • One 2-pin power connector
Optional Accessories	<ul style="list-style-type: none"> • 12 VDC power supply, 20 mA minimum • AC-RK Accessory Rack Kit

Installing The VSS2

You can install the VSS2 on any flat surface that has unobstructed access to the rear panel connectors. The following describes how to set up and install the VSS2.

Connecting the Wiring

You can connect up to two video devices to the RCA plug-in connectors on the VSS2. Once attached, you can connect up to two external sensing devices, a television manager, or a AMX control system to the four-pin Sense out connector on the rear panel. The following describes how to connect your video devices, external equipment, and the 12 VDC power supply

Video 1 and 2 connectors

FIG. 4 shows how to connect your video devices to the Video 1 and 2 RCA plug-in connectors on the rear panel.

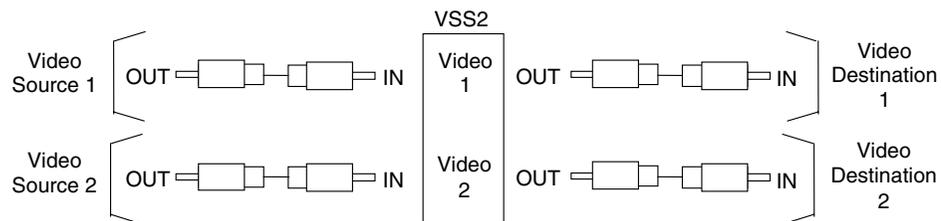


FIG. 4 Video RCA connector diagram

Sense out connector

FIG. 5 shows how to connect two external video-sensing devices.

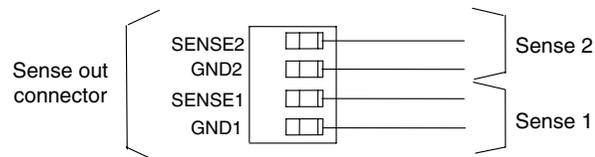


FIG. 5 External video sensing wiring diagram

FIG. 6 shows a typical connection of a television manager.



I/O pin assignments are program dependent. Verify the wiring against the AXCESS program documentation.

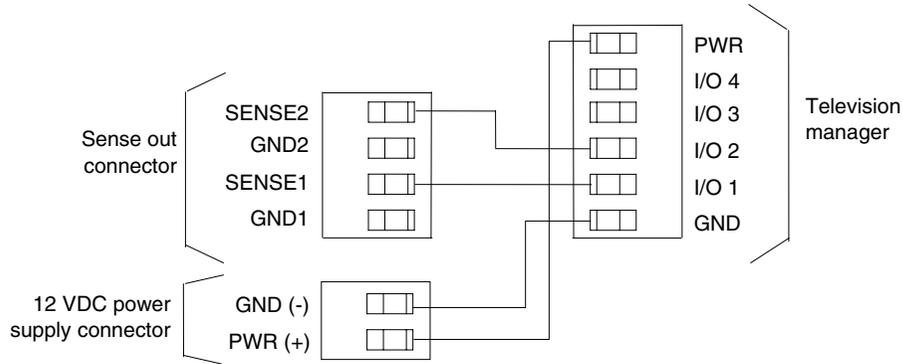


FIG. 6 Television manager and power supply wiring diagram

FIG. 7 shows a typical connection of a AMX control system and power supply.

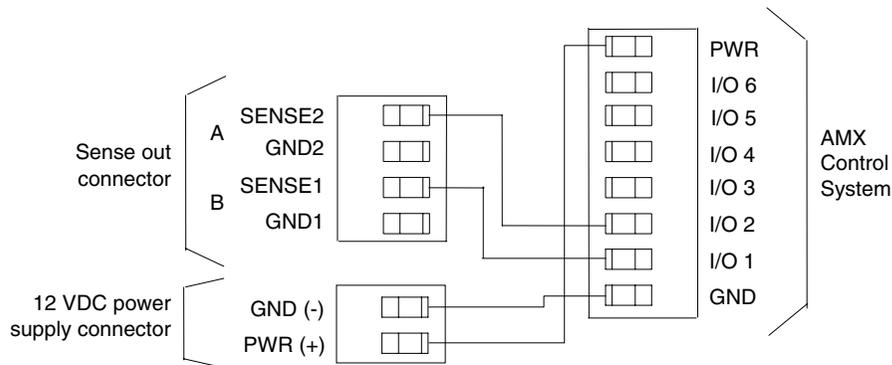


FIG. 7 AMX AXCENT Control System and power supply wiring diagram

12 VDC power supply connector

FIG. 8 shows how to connect the 12 VDC power to the rear panel.

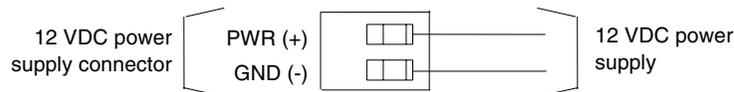


FIG. 8 12 VDC power supply wiring diagram

Rack-Mounting the VSS2 (optional)

To rack-mount the VSS2 into the optional AC-RK Accessory Rack Kit:

1. Remove any connected power, AXlink, and RS-232 connectors from the rear panel.
2. Remove the two screws on the front panel of the VSS2.
3. Remove the front panel and the space bracket behind the panel.
4. Place the unit in the appropriate opening in the AC-RK.
5. Place the front panel of the VSS2 on the front of the rack, over the unit.
6. Fasten the front panel to the rack and to the unit with the two screws you removed.



AMX reserves the right to alter specifications without notice at any time.

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