

Overview

The VSS2 Video Sync Sensor (FG5916-10) is equipped with two independent signal detection channels. When a signal is present, each detection channel initiates a logic-level output, and dual video jacks for each channel allow loop-through operation. The VSS2 is an ideal power sensor for DVDs and other video sources, or to provide a warning on loss of audio, video or RGB signal.



FIG. 1 VSS2

Common Application

Use the VSS2 to monitor the true power status of a VCR, tuner or satellite receiver and track the video output of each source, sending a logic signal to an input port. The output can also be used to control other AMX closure-driven peripherals, such as the PC1 Power Controller.

Features

- Detects presence of signal from 1 kHz to greater than 100 kHz
- 2 independent video sync sensing channels
- 2 RCA jacks for each channel to allow loop-through operation
- 2 solid-state outputs that send a logic low signal when sync is present
- Front-panel LEDs that display on/off status for each channel
- Compatible with all AMX solid-state and closure input ports
- Detection of audio, video, and high-resolution RGB signals

Specifications

The following table provides hardware specifications for the VSS2: 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

Applications

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

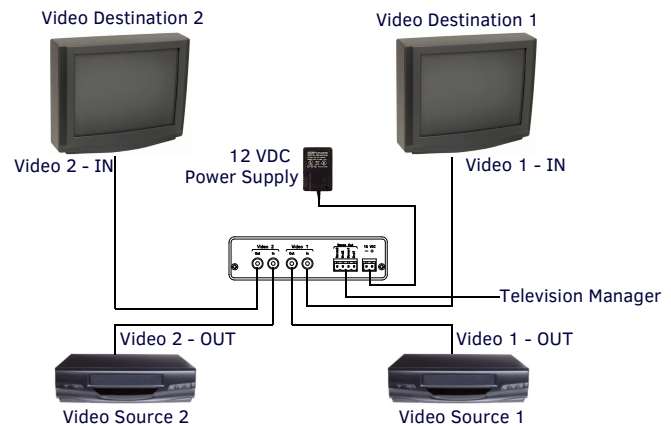


FIG. 2 SAMPLE VSS2 SYSTEM CONFIGURATION

Installation

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 sections describe how to connect your video devices, external equipment, and the 12 VDC power supply.

Video 1 and 2 Connectors

FIG. 3 shows how to connect your video devices to the Video 1 and 2 RCA plug-in connectors on the rear panel.

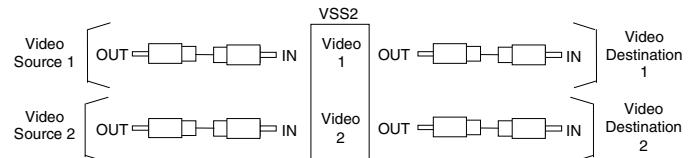


FIG. 3 VIDEO RCA CONNECTOR DIAGRAM

Sense Out Connector

FIG. 4 shows how to connect two external video-sensing devices.

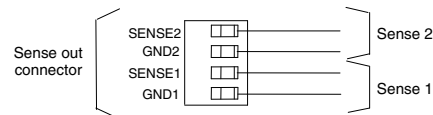


FIG. 4 EXTERNAL VIDEO SENSING WIRING DIAGRAM

FIG. 5 shows a typical connection of a television manager.

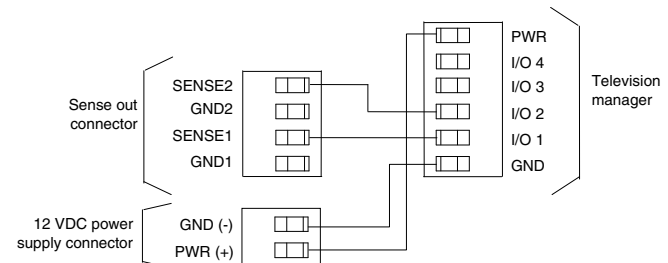


FIG. 5 TELEVISION MANAGER AND POWER SUPPLY WIRING DIAGRAM

FIG. 6 shows a typical connection of a AMX control system and power supply.

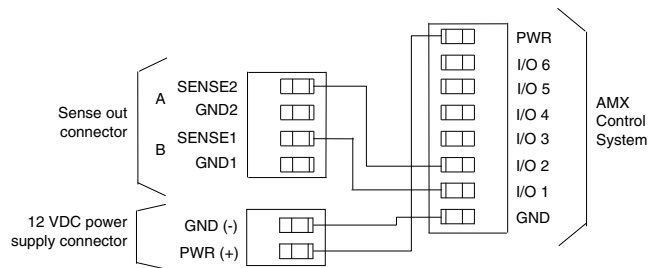


FIG. 6 AMX AXCENT CONTROL SYSTEM AND POWER SUPPLY WIRING DIAGRAM

12 VDC Power Supply Connector

FIG. 7 shows how to connect the 12 VDC power to the rear panel.

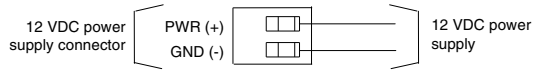


FIG. 7 12 VDC POWER SUPPLY WIRING DIAGRAM

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

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.

