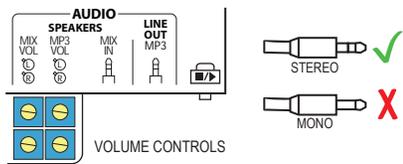


Audio and Speaker Connections (continued)

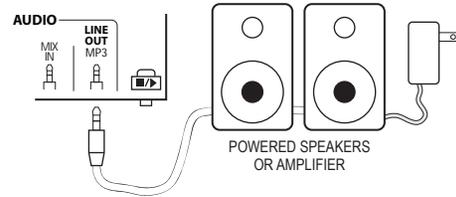
Internal Amplifier Volume Controls

Use the MP3 volume controls for audio coming from the FlexMax. Use the MIX volume controls to control an external audio source you'd like to mix in.

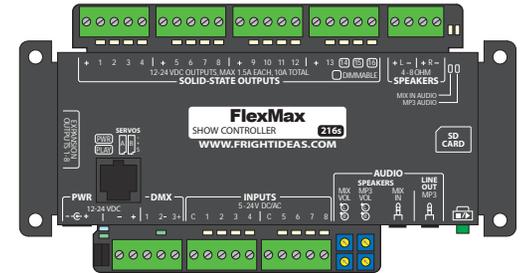


Connecting Amplified Speakers

The FlexMax audio output is designed to connect to powered speakers or external amplifiers.



Quick-Start Guide FlexMax (216s)



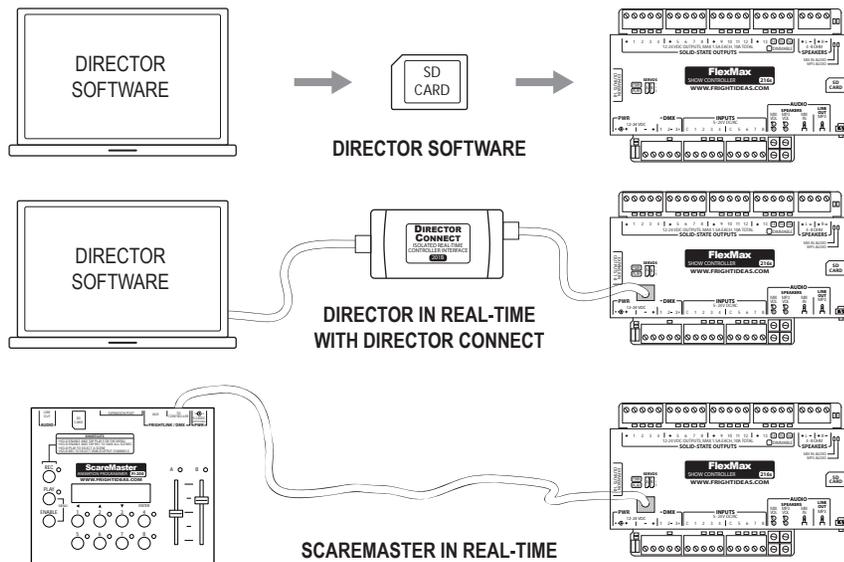
VIDEOS AND MORE AVAILABLE ONLINE

Scan the QR code here or on the controller's enclosure. Or visit: help.frightideas.com



Programming

The FlexMax can be easily programmed with our free Director software and an SD card. The Director Connect allows you to see your work in real-time, rather than having to save the program to an SD card first. The ScareMaster is a great real-time programming option for those who don't want to be tethered to a computer.



Tips and Tricks

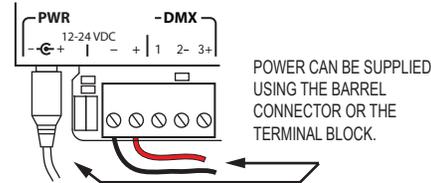
The FlexMax has some great features that are often left undiscovered. Many of these features are only available via the Director software. They are described in the Settings panel under the gear icon. Click the Help button in those panels for more information. A couple of the settings are described below ...

Behaviors - IF THIS THEN THAT logic can now be used to trigger scenes, control variables, and more.

Ambient Resume - Tells the Ambient scene to resume from where it left off after an input scene has finished.

Fade on Interrupt - If a scene is interrupted before completion it will fade out the audio before stopping.

Power Supply



Selecting your Power Supply Voltage

The FlexMax requires a 12 or 24 volt DC power supply. A 24 volt power supply will get you the most volume from of the audio amplifier. It will however require that all the devices connected to your outputs be rated for 24 volts. If want to use any of the outputs to control LEDs, a 12 volt would probably be the way to go.

Sizing Your Power Supply

To size a supply you must add up the wattage for the most outputs that will be on at any one time, then add 2 watts for the FlexMax if you're NOT using the internal amplifier, or 50 if you are.

Example:

- 50 watts FlexMax using Amp (24 volts is best)
- + 36 watts 6 x 6 watt solenoids
- = 86 watts Need a 24 VDC > 86 watt supply

About Solid-State Outputs

Solid-state outputs are great for reliably controlling relays, solenoids, and LED lights. They cannot be used to directly control high-current, 110 volt, or contact-closure devices like a relay can. However, unlike relays, they have no moving parts that wear out over time. Use external mechanical or solid-state relays for high current or high voltage loads. This will result in a highly reliable and maintainable system.

Dimmable Outputs

Outputs 14, 15 & 16 can be used to control the brightness of LEDs or small DC bulbs. Use DMX channels 6, 7 & 8 on the ScareMaster for this purpose.

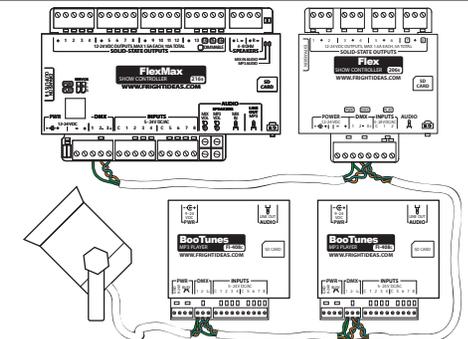
DMX

Master Mode (Default)

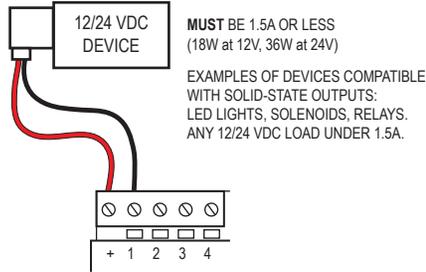
The FlexMax can be used to control DMX devices as part of the show. It can also be linked to our MP3 players to add more audio channels. The MP3 players will automatically start and stop the appropriate audio files in sync with the FlexMax.

Slave Mode

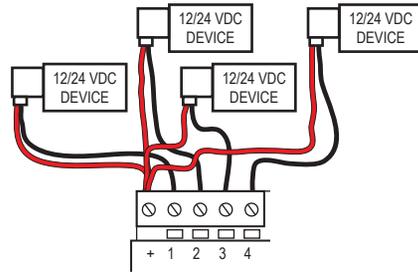
The FlexMax can be setup as a DMX slave to another FlexMax. This will increase the total inputs and outputs available. It can also be linked to any DMX master device which can then control its outputs, audio, and even trigger scenes.



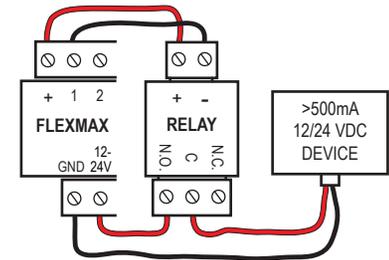
Solid-State Output Wiring Diagrams



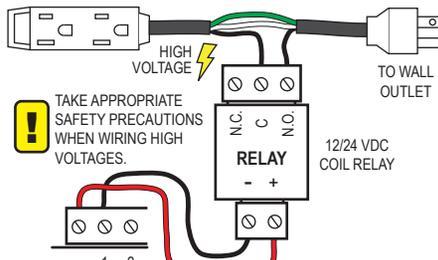
ANY 12 OR 24 VDC DEVICE



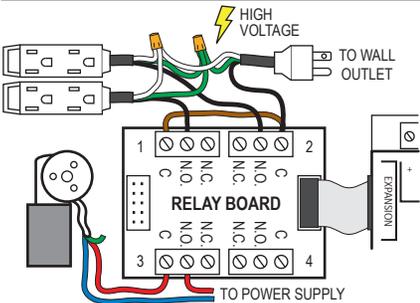
FOUR 12 OR 24 VDC DEVICES



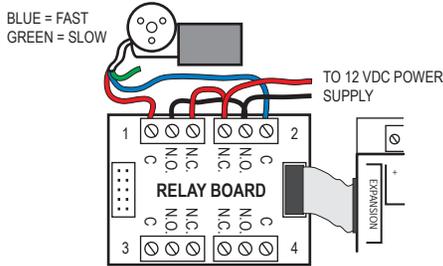
12 OR 24 VDC DEVICE > 1.5A



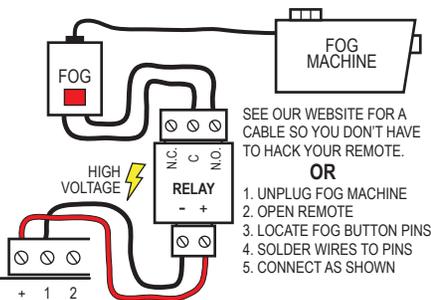
ANY 110 VOLT LOAD



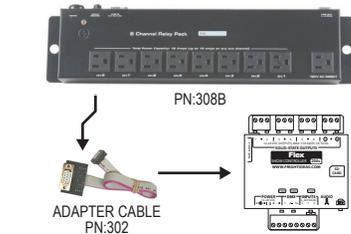
USING A QUAD RELAY BOARD



12 VDC MOTOR IN FORWARD AND REVERSE



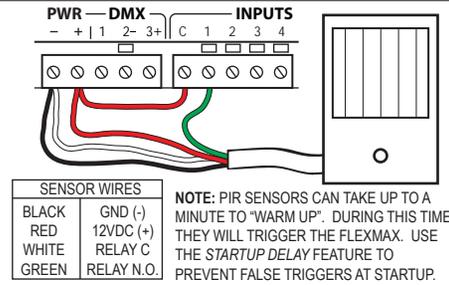
FOG MACHINE



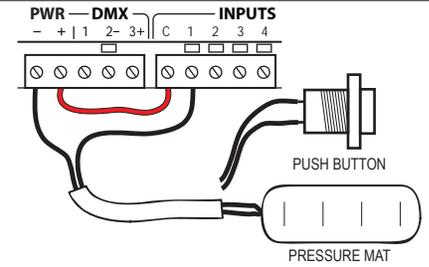
USE ONE OF OUR AC RELAY PACKS WHEN YOU HAVE A LOT OF 110 VOLT DEVICES TO CONTROL. THE OUTPUTS ON THE RELAY PACK WILL MIRROR THE OUTPUTS ON THE FLEX.

AC RELAY PACKS

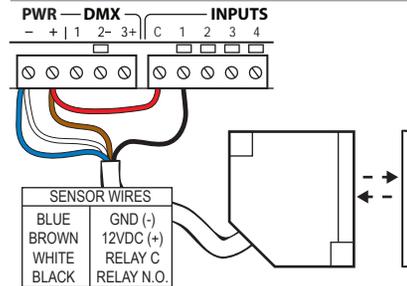
Trigger Input Wiring



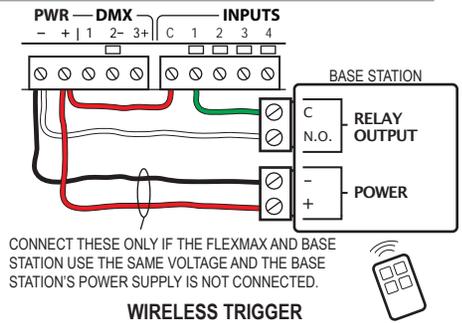
PIR MOTION SENSOR



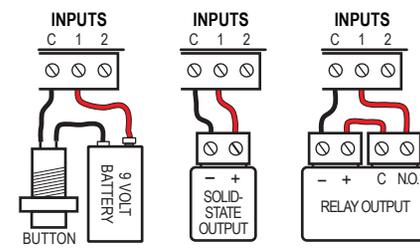
PRESSURE MAT OR PUSH BUTTON



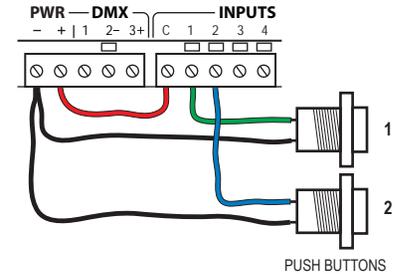
BEAM SENSOR



WIRELESS TRIGGER



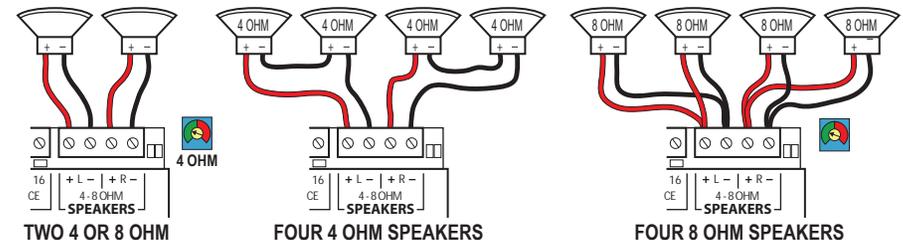
OPTICALLY-ISOLATED INPUT



TWO TRIGGERS

Audio and Speaker Connections

The FlexMax includes a 50 watt (2 x 25 watt) Class D stereo amplifier. To take full advantage of this amplifier, the power supply needs to be 24 volts and have at least 50 watts of power.



= DO NOT turn the volume past 50% if using a 24 volt power supply in this configuration.