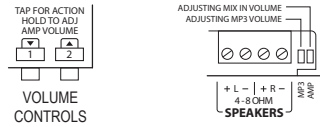


Audio and Speaker Connections (continued)

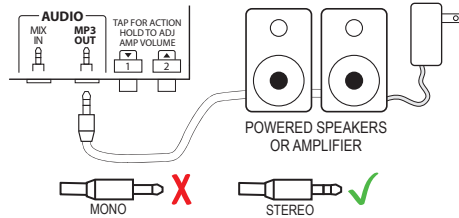
Internal Amplifier Volume Controls

Hold the 1 or 2 buttons for a few seconds to start adjusting volume. The MP3 LED will start to flash and the current volume is shown on the input LEDs. If you want to adjust the Mix In volume hold both buttons until the AMP LED starts to flash.



Connecting Amplified Speakers

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

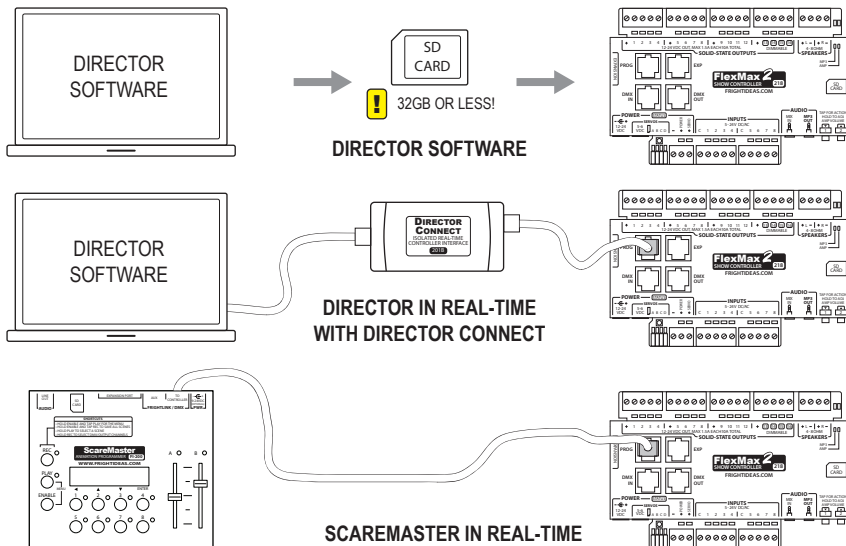


Copying Audio Files to the FlexMax

The recommended method to get your audio files onto the FlexMax is to use our free Director software. It will copy the sounds to your FlexMax or ScareMaster and ensure the filenames and folder structure are correct.

Programming

The FlexMax can be easily programmed with our free Director software and an SD card. The Director Connect allows you to see your changes in real-time, rather than having to save the program to an SD card first. The ScareMaster is a handheld programmer for simple shows where users don't want to be tethered to a computer.



Troubleshooting

The status LED indicates the current state at startup, during operation, and when an error occurs. See the Help menu in Director for the full list of LED states and error codes.

STARTUP

- Firmware Check
- Firmware Updating
- Version Display
- Importing Show

AS A DMX SLAVE

- Good DMX Signal
- No DMX Signal

OPERATION

- Idle
- Playing Scene
- Connected to Director
- Connect

ERROR CODES

- 1 & ● x5 or 6 - Firmware on CPU corrupt. Update firmware.
- 1 & ● x7 - Firmware file on card corrupt. Re-export to card.
- 2 & ● x13 or 14 - SD card error. Must be 32GB or less.
- 2 & ● x3 - Voltage Too Low or Too High.
- 2 & ● x5 - Out of Memory for Behaviors.
- 2 & ● x6 - Behavior Exception. Try updating firmware.

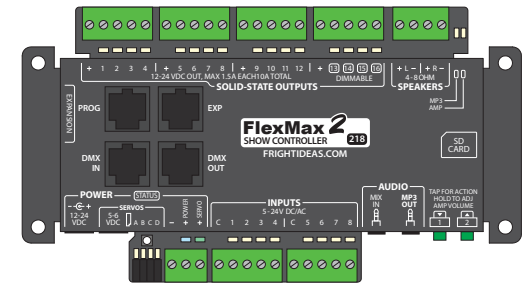
For other errors update firmware first. If error persists email support@frightideas.com.



Quick-Start Guide

FlexMax 2

PN: 218

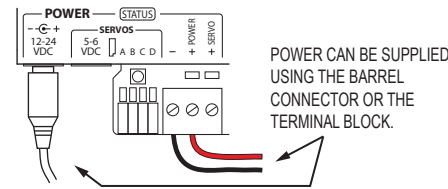


VIDEOS AND MORE AVAILABLE ONLINE

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



Power Supply and Outputs



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 the audio amplifier. It will however require that all the devices connected to your outputs be rated for 24 volts. If you want to use any of the outputs to control 12 volt devices then 12 volts is 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.

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 13 thru 16 are PWM outputs that can be used as signals to PWM input devices, or to directly control the brightness of LEDs or small DC bulbs.

Servo Outputs

The FlexMax has four servo outputs. To use these you must connect a separate 5-6VDC power supply to power the servos. This can be connected to the Servo barrel connector or to the - and + SERVO terminal block screws.

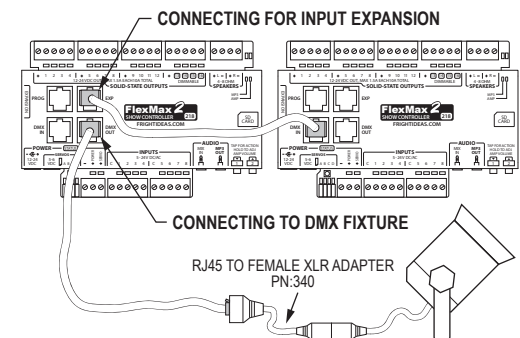
DMX In, Out, Expansion

Master Mode (Default)

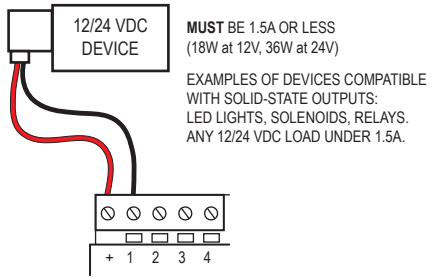
The DMX OUT port can be used to connect and control DMX devices as part of the show. This port follows the DMX over CAT5 wiring standard. The EXP port can be used to link to additional FlexMax or IO Expanders to add more inputs / outputs.

Slave Mode

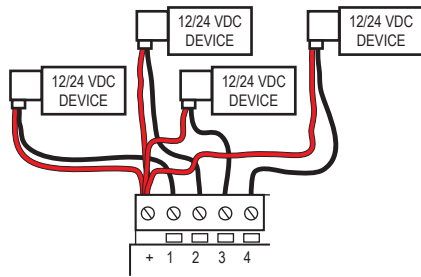
The DMX IN port can be used to link a FlexMax to a DMX master device or to another FlexMax. As a slave, the DMX master can control the audio, outputs, or even trigger scenes.



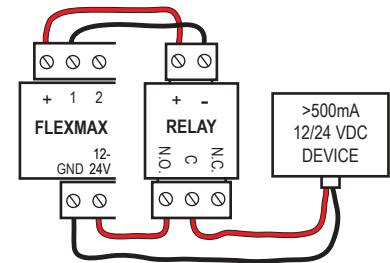
Solid-State Output Wiring Diagrams



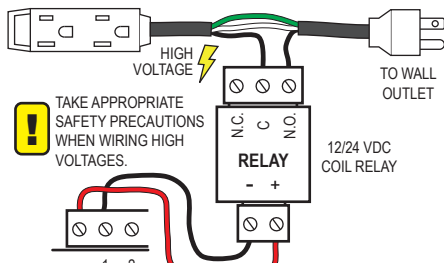
ANY 12 OR 24 VDC DEVICE



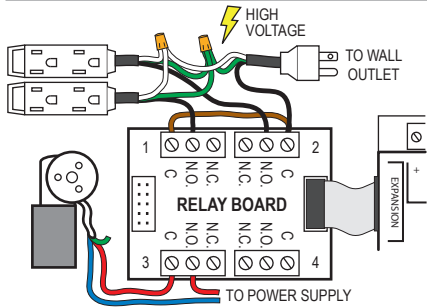
FOUR 12 OR 24 VDC DEVICES



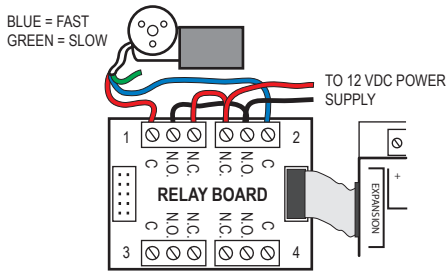
12 OR 24 VDC DEVICE > 1.5A



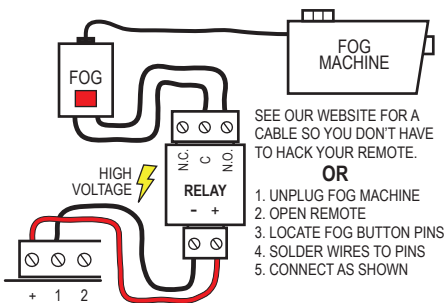
ANY 110 VOLT LOAD



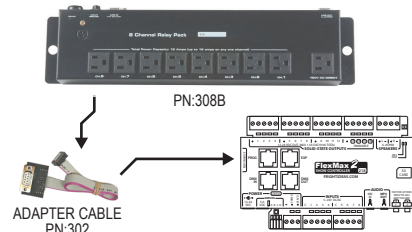
USING A QUAD RELAY BOARD



12 VDC MOTOR IN FORWARD AND REVERSE

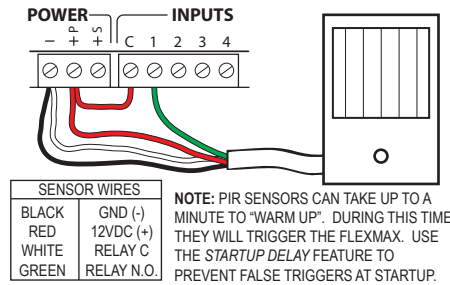


FOG MACHINE

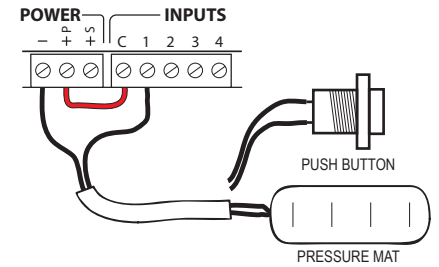


AC RELAY PACKS

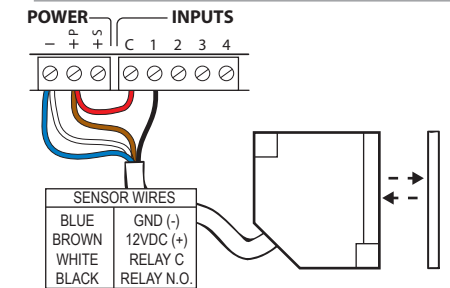
Trigger Input Wiring



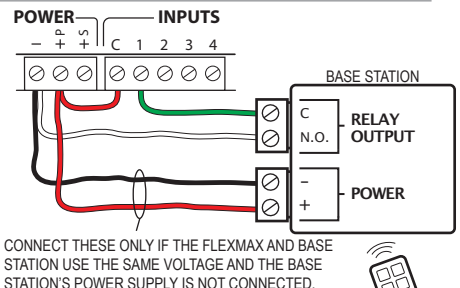
PIR MOTION SENSOR



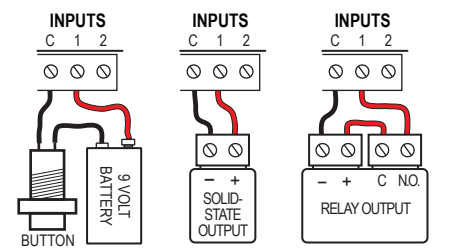
PRESSURE MAT OR PUSH BUTTON



BEAM SENSOR

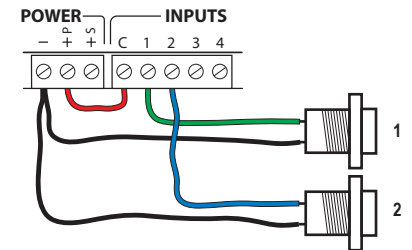


WIRELESS TRIGGER



OPTICALLY-ISOLATE CIRCUITS FROM DIFFERENT POWER SUPPLIES, OR WHEN WIRE LENGTHS ARE EXCESSIVE.

OPTICALLY-ISOLATED INPUT

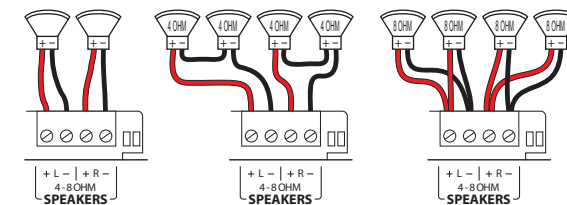


TWO TRIGGERS

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. It will still get very loud at 12 volts, so don't stress if you prefer to use that voltage instead.

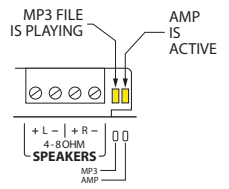
The MP3 and AMP LEDs indicate the state of the MP3 decoder and internal amplifier.



TWO 4 OR 8 OHM

FOUR 4 OHM

FOUR 8 OHM



MP3 / SPEAKER LEDS