

# Film-Tech

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# Component Engineering

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## Interfacing the FM-35 with Kelmar and Christie Automations

This scheme for connecting the FM-35 to these automation systems was developed by Mr. Ron Surbutts of National Cinema Service, Los Angeles, and is reproduced here with his permission and our thanks.

This method has given good results with current and recent models of these automations, but how successful it would be with earlier systems is unknown.

The FM-35 requires a source of DC Voltage ranging from 12 to 30 Volts. These automation systems operate on 12 Volts AC, and so a small power supply circuit board is available from Component Engineering (as part PS-12). This board will mount to the terminal strip in the automation and provide enough DC current to operate the FM-35 via its RED and BLACK wires.

The “Fail-Safe” and cue connections are made as follows:

1. Tie together the GREEN, BLUE, TAN, ORANGE and YELLOW wires and connect them to the automation “Ground”
2. Connect the RED/YELLOW wire to the Outboard Cue terminal
3. Connect the RED/BLACK wire to the Cross Cue terminal
4. Connect the BROWN wire to the Inboard terminal
5. Connect the GRAY wire to the Failsafe terminal

This takes care of all of the original cueing and failsafe functions, but doesn't take advantage of the FM-35's Motion Sensing feature. By adding one simple 12Vac relay to the system the Motion Sensing can also be incorporated. This diagram shows how:

Remember that any Cross Cues on the film must be replaced with Center only cue foil patches. (See the FM-35 instructions).

