

8527-6 6 Theater Sync Selector Module

GENERAL- where more than 3 Auditoriums are to be interlocked, a SYNC SELECTOR MODULE is available to provide Multiple path interlock selection. The #8527-6 SYNC SELECTOR MODULE is used to Interlock up to 6 Automation Systems and the Selector modules may be paralleled to provide control of any number of auditoriums.

The SYNC SELECTOR MODULE provides 4 Separate Interlock Combinations.

Provide Sync selector modules as follows:

1-6 Auditoriums	1 #8527-6 Sync selector module
7-12 Auditoriums	2 #8527-6 Sync selector modules
13-18 Auditoriums	3 #8527-6 Sync selector modules
19-24 Auditoriums	4 #8527-6 Sync selector modules

The Sync selector Modules May be ALL connected to ONE master system, providing any 4 interlock combinations or each may be connected separately to control each of the 6 systems. Physical Layout of the Projection Room should be taken into consideration. For example, a Back to Back 12-Plex, with a common Projection Room should have all systems tied into one master system so that the film can be Interlocked In any combination. A Theatre that has 2 seperate Projection Rooms should divide the Interlock system into 2 Sub systems, in cases where it is impractical to run the film from one Projection Room to the other.

Refer to Drawing No. 1394 for the Interface of the #8527-6 SYNC SELECTOR MODULE. Interface cable between each Automation and the Sync Selector Module is Belden #9444, 4 Conductor #20, or Alpha #5414. Interface cable between each SYNC SELECTOR MODULE is Belden #9455, 9 Conductor #20, or Alpha #5419.

The #8527-6 may be used with various Automation Systems. Normally Closed EMERGENCY stop button provided on the panel for use with the #85020-3 Kelmar Deluxe or AM-8 Automations. These buttons are NOT REQUIRED with the Kelmar Ultra Deluxe Automation. Although the interlock system requires only 2 wires for operation, the other 2 wires are provided for PHASE testing, EMERGENCY STOP BUTTON, or common ground connection.

If the Emergency Stop Buttons are to be connected, the JUMPER at the #85020-3 SYNC MODULE Terminals 4, 5 MUST BE REMOVED WHEN CONNECTING THE SYNC SELECTOR MODULE.

Each Automation has a START CIRCUIT and a FAILSAFE CIRCUIT that is used for Interlock. For the AM-8 or the Kelmar Deluxe these outputs are located on the 5 position terminal strip of the SYNC MODULE. Terminal #1 is the start circuit and terminal #2 is the Failsafe circuit.

The Start Circuit and the Failsafe Circuit for the ULTRA-DELUXE is: TB5-15 START CIRCUIT, TB5-16 FAILSAFE CIRCUIT. The RED wire to the SYNC SELECTOR should be connected to the 12 VAC constant TB1-21 terminal of the ULTRA-DELUXE. The other wire should be connected to ground.

#8527-6 TERMINATION SCHEDULE:

TERM. NO.	FUNCTION
TB1-1	#1 START CIRCUIT
TB1-2	#1 FAILSAFE CIRCUIT
TB1-3	#2 START CIRCUIT
TB1-4	#2 FAILSAFE CIRCUIT
TB1-5	#3 START CIRCUIT
TB1-6	#3 FAILSAFE CIRCUIT
TB1-7	#4 START CIRCUIT
TB1-8	#4 FAILSAFE CIRCUIT
TB1-9	#5 START CIRCUIT
TB1-10	#5 FAILSAFE CIRCUIT
TB1-11	#6 START CIRCUIT
TB1-12	#6 FAILSAFE CIRCUIT
TB2-1	"A" START BUSS
TB2-2	"A" FAILSAFE BUSS
TB2-3	"B" START BUSS
TB2-4	"B" FAILSAFE BUSS
TB2-5	"C" START BUSS
TB2-6	"C" FAILSAFE BUSS
TB2-7	"D" START BUSS
TB2-8	"D" FAILSAFE BUSS
TB2-9-12	GROUND TIE POINTS

DO NOT TERMINATE THE 12VAC CONSTANT WIRES TO THE 8527-6

PHASE TEST- For Proper operation of the SYNC system ALL Automations must be on the SAME A.C. PHASE, To test for proper Phasing, turn on ALL Automation Systems, and turn ON all SYNC I/L Switches. Using an A.C. Voltmeter, 30 Volt Scale, take readings between the RED wires at the Sync Selector Module. The Reading should be 0, indicating that all Systems are in Phase. If the Reading Is 24 Volts, It indicates that the Automations are OUT of PHASE with each other. THIS CONDITION MUST BE CORRECTED. If SYNC SELECTOR MODULES are installed in several Locations and Connected together, make the PHASE Test in each SYNC SELECTOR MODULE, separately first, Then make certain that ALL rotary selector switches in ALL Sync selector Modules are off. Install a temporary Jumper in one Sync Select Module from a RED wire to the BLACK Interface WIRE Go to the other SYNC SELECTOR MODULES and take a Volt reading from the RED wires to the BLACK Interface wire. The reading should be 0. After ALL Systems are properly phased, remove the Jumper.

SYSTEM TEST- It is suggested that Each SYNC SELECTOR MODULE system be tested separately, then together (If more than one is used). Test systems as follows:

1. Turn rotary selector switch on all other Sync Selector Modules OFF.
2. On System being tested, turn on SYNC SELECTOR SWITCH at each automation, then turn all rotary selector switches on SYNC SELECTOR MODULE to the A Mode.
3. Test the System per the TEST PROCEDURE in the SYNC MODULE INSTRUCTIONS.
4. Repeat the TEST with the B, C, and D sections.
5. Turn OFF all rotary selector switches, and then turn off SYNC SELECTOR switches on automations and repeat the TEST at the next SYNC SELECTOR MODULE After that TEST, turn all Rotary Selector Switches off and repeat the TEST and the next SYNC SELECTOR MODULE until ALL have been tested separately.
6. Test the entire System by placing all Rotary Selector Switches in the A Mode, B Mode, C Mode and D Mode. It is not necessary to run ALL tests, Just SHOW START and FAILSAFE.
7. When not being used, ALL rotary selector switches should be left in the OFF Position.

OPERATION:

Refer to OPERATION Instructions furnished with each SYNC MODULE. 4 possible combinations are available with the SYNC SELECTOR MODULES. Decide which Auditoriums are to be interlocked and assign each combination a section.

For Example:

Auditoriums 1 and 3 section A, Auditoriums 2,4,6 section B and so forth. Operate All system as called for in the SYNC MODULE Instructions.

AN EMERGENCY STOP BUTTON IS PROVIDED FOR EACH AUTOMATION ON THE SYNC SELECTOR MODULE. THIS BUTTON IS USED TO STOP THE PROJECTOR AFTER IT HAS BEEN STARTED WITH THE SYNC I/L SYSTEM AND PRIOR TO THE CUE BEING DETECTED AND THE FAILSAFE PARALLEL. PRESSING THIS BUTTON DROPS OUT K2 (TRANSFER RELAY) OF THE #85020-3 SYNC MODULE. *IT IS NECESSARY TO PRESS EACH BUTTON FOR ALL INTERLOCKED AUTOMATIONS.*

PLEASE NOTE: The Re-Start Button at each automation is used to Cycle the automation after a film break, when there is no longer a CUE on the film to Start the show. The Restart button is only active when starting the show with the SYNC INTERLOCK System.

BE CERTAIN THAT THE SYNC ON/OFF SELECTOR SWITCH ON THE AUTOMATION SYSTEM CONTROL PANEL IS ON BEFORE SETTING THE ROTARY SWITCH OF THE SYNC SELECTOR MODULE FOR THAT AUTOMATION.

WHEN USING THE SYNC SELECTOR MODULE SYSTEM FOR MORE THAN ONE COMBINATION AT A TIME, USE A HIGHER LETTER FOR THE FIRST COMBINATION.

For example if 1 & 2 are to be interlocked and 3-4 are to be Interlocked and 1-2 is to be Started first, turn on the ON/OFF SELECTOR switch ON automation units 1 and 2. Set the Rotary selector switches, for 1 and 2 to B. START the show. Turn on the on/off SELECTOR switch ON automaton units 3 and 4. Set the Rotary switches for 3 and 4 to A, and then START that show. By doing this, it is not necessary to "DIAL THROUGH" an operating combination.

DO NOT USE MYLAR LEADER FOR INTERLOCK.
DAMAGE TO EQUIPMENT CAN RESULT!

If further assistance is required Contact,

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