## LynTec

A partial sample of custom film legends OUTSIDE ${ }_{5}^{+}$LOWER BOWL on on OUTSIDE ${ }_{5}^{+}$LOWER BOWL OFFl OFF $\begin{array}{cc}\text { VIDEO SYSTEM } \\ \text { A.C. POWER } & \text { PROJECTOR }\end{array}$ A.C. POWER $\begin{gathered}\text { E } \\ \text { A.C. POWER } \\ 0\end{gathered}$ POWER AMPS ${ }^{+}$AUTO 0 드르․․․․ ON Power Amplifiers
ONLY $\quad$ AUTO OFF OFF
.770" x .535"

Actual size drill templates

A.C. Sequencing Systems


See reverse side for multiple switch set wiring.

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one

## SS-2 Sequencer Switch Set

Up to 5* additional remote control locations may be added to the system with additional switch sets or with other momentary switches.

## 139-0252-13.1 SS-2 insert 7/2/09

For SS-32 Switch Sets see
http://www.lyntec.com/139-0396_SS-32_Insert.pdf

## Multiple Sequencer Hookup Diagram

For LynTec MSLC and MSP MODULAR and PDS series Power Sequencing Products
Custom switch legends you Showing Low-Voltage Remote ON/OFF Control and Daisy-Chain Wiring


Fax 888-722-4157 or 913-529-4157 www.LynTec.com

For SS-32 Switch Sets see

## A typical LynTec three panel, daisy-chained system with two locking control locations.

For Timing Diagram and Logic levels
See http://www.lyntec.com/139-0266_Seq_Timing.pdf

Remote control at both ends $\qquad$ 9 conductors

Kill, Remote control both ends, full power verification ..... 11 conductors Low voltage control wire: 24 gauge minimum, 5,000 ft. loop max.


# Built-in Kill, Hurry-Off and ZipOff (PANC) switch option for MSLC and MSP and PDS-10 series AC SEQUENCING SYSTEMS 

## What the functions do

## Kill - EMERGENCY SHUTDOWN

Provides an IMMEDIATE shut down method for the sound system at the command of a fire alarm, emergency announcement system, or ZipOff switch.

## Optional ZipOff switch, ZOS-5K

Provides a full AC Power shutdown within 200 milliseconds after the ZipOff button is pushed. In case of a runaway oscillation or other unexpected signal which could damage the loudspeakers if sustained...
Lift the protective cover and press the ZipOff button... it latches down and lights red. The AC power sequencing system immediately zips off.
Press again to unlatch... the light goes out and the sequencer restarts to repower the system.

> or

Use the new Hurry-Off function at any OFF switch.

## MULTI-BOARD SHUNT R

The Kill line is an 11 ma. current source from each MS-12 Modular Sequencer or PDS-10 board

A voltage sensor on the Kill line determines the Kill threshold.
The Kill line has an open circuit voltage of 28 volts which must be pulled down to less than 10.5 volts to generate a Kill function. Grounding the Kill line to Common will always kill the system instantly. This current source may also be used to light the Zip-Off switch's, red LED.

The red ZipOff LED only requires 10 ma . For systems where multiple-board system's Kill lines are paralleled, a 9 v . voltage regulator chip is installed in the ZOS-5K which will automatically shunt the excess source current of up to 5 boards. For more than 5 boards an additional resistor must be used in parallel with the ZipOff switch LED. To prevent damage due to overheating the voltage regulator chip, the resistor should be installed as shown with full length leads to get the heat source away from the switch.

| Total Number of boards 1-5 $\qquad$ | Shunt Resistor required ........none |  |
| :---: | :---: | :---: |
| 6........ | .....820 ${ }^{\text {, }} 1 / 4 \mathrm{w}$ | $16 . . . . . . . . . . . . .75 \Omega, 2 w$ |
| 7........... | ...430 , 1/4w | $17 . . . . . . . . . . . . . .68 \Omega, 2 w$ |
| 8......... | ..270 2 , 1/2w | $18 . . . . . . . . . . . . . .62 \Omega, 2 w$ |
| 9........ | .200ת, 1/2w | 19.............. $56 \Omega$, 2w |
| 10....... | ..150 2 , 1/2w | $20 . . . . . . . . . . . . . .56 \Omega, 2 w$ |
| 11......... | ... 150 , 1w | 21..............51 2 , 2w |
| 12........ | ... 120ת, 1w | 22 ...............47S, 2w |
| 13........ | ... 100 1 , 1w | $23 . . . . . . . . . . . . . .47 \Omega, 2 w$ |
| 14........ | ..... $92 \Omega$, 1w | $24 . . . . . . . . . . . . .43 \Omega, 2 w$ |
| 15........ | .... 82, 1w | $25 . . . . . . . . . . . . . .39 \Omega, 2 w$ |

## What to specify or order

For ZipOff switch order ZOS-5K. (services up to $\mathbf{5}$ Kill equipped boards) on reverse side Includes switch with ZipOff film legend and flip up security cover.
Switch mounts in $5 / 8$ " round hole in panels up to $3 / 16^{\prime \prime}$ thick.
ZOS-5K Contractor C.O.D. price: $\$ 34$.

## Hurry-Off

The MS-12 Modular \& PDS-10 Sequencing boards have a new Hurry-Off function. If you hold down any OFF switch for two seconds, a "Kill without restore" function is triggered. The system shuts down within 200 milliseconds and doesn't restart until you give it a new ON command.

## How they work

All LynTec sequencing systems have the ZipOff load shedding feature. The older SLC, SP and PDS-8's implemented it by interrupting 24 v ac power.
The newer Modular sequencers, the MSLC and MSP series and the PDS-10, load shed when power fails, but also have a Kill function that is triggered by grounding the Kill line.
The red Kill LED, adjacent to the Kill terminal on the board, lights and Zip-Off is immediate. The kill line is a low current line. Long control wiring may be used without concern for loop resistances up to 32ת. (22 gauge, up to a $1,000 \mathrm{ft}$. run [ $2,000 \mathrm{ft}$. loop] or a 680 ft . run of 24 ga ).
The microprocessor remembers that the sequencer was ON. When the Kill line is opened, the ON sequence repeats, bringing the AC power back on.
For the Modular series control boards the ZipOff switch connects the Kill line to common, through the Zip-Off switch's LED, initiating the Kill function.

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for Modular A.C. Sequencing Systems, models MSLC, MSP \& PDS-I 0.
ON, OFF and ZipOff switch mounting \& wiring


SHUNT Resistor required for more than 5
sequencer boards. See reverse side.

To PDS-10 series or MSLC, MSP series sequencer


Wire requirements
Switch set to sequencer: 4 conductors.
Between daisy chained Modular sequencers:
9 conductors, 11 if Power Vouchers are used.
Up to 5,000 ft run: 22 ga.,
5,000 to 7500 ft . run: 20 ga .
7,500 to 10,000 ft. run: 18 ga.
See other side for ZipOff wire sizing.

