



139-0252-13.2 SS-2/SS-2PL Insert 7/2/09 See http://www.lyntec.com/139-0252.pdf for latest version. http://www.lyntec.com/139-0396\_SS-32\_Insert.pdf

# 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 Wire Requirements for Remote Controls

Basic system	ON/OFF Control from one pa	anel only4 conductors		
Basic + Kill	Add Kill function	6 conductors		
2 conductors to Kill control location				

Remote control at both ends ......9 conductors

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



139-0252-13.3 Daisy Chain Hookup 7/2/09

# Built-in Kill, Hurry-Off and **ZipOff** (PANIC) 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	Shunt Resistor required	
1-5	none	
6	820Ω, 1/4w	1675Ω, 2w
7	430Ω, 1/4w	1768Ω, 2w
8	270Ω, 1/2w	1862Ω, 2w
9	200Ω, 1/2w	1956Ω, 2w
10	150Ω, 1/2w	2056Ω, 2w
11	150Ω, 1w	2151Ω, 2w
12	120Ω, 1w	2247Ω, 2w
13	100Ω, 1w	2347Ω, 2w
14	92Ω, 1w	2443Ω, 2w
15	82Ω, 1w	2539Ω, 2w

#### What to specify or order

Delivery: Stock.

**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 24v 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 arounding 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  $32\Omega$ . (22 gauge, up to a 1,000 ft. run [2,000 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.



139-0256-07 8/11/08 See http://www.lyntec.com/139-0256\_ZOS-5K.pdf for latest version.

# LynTec

for Modular A.C. Sequencing Systems, models MSLC, MSP & PDS-10.



