

- a. Outlet Box circuit number labeling:
  - 1) Circuits labeling shall be 2" or ¾" (sized to match product) lettering engraved in the cover.

(Note: this changes cover material to .080 AL).

2.7 NOT USED  
2.8 COMPANY SWITCH

eliminated the  
section about  
connector strip

A. General

1. The Company Switch shall be available in 2 models: PowerSafe Pro, and PowerSafe Compact; as designed by Electronic Theatre Controls.
2. Compact Models shall be available at 120/208V: 100A, or 200A; 3-phase, 4-wire plus ground.
3. Pro Models shall be available at 120/208V: 100A, 200A or 400A; 3-phase, 5-wire (double neutral) plus ground.
4. The Company Switch shall be UL and cUL listed and shall meet all applicable NEC standards.
5. The enclosure shall be NEMA 1 rated.

B. Mechanical

1. The Company Switch shall be fabricated of 16 gauge steel and finished using ETC styling with fine-textured scratch resistant epoxy paint.
2. The door which provides access to output connections shall be lockable with shunt trip interlock.
3. The "Compact" Enclosure size shall not exceed 25" high by 15.5" wide and 6" deep. The "Pro" Enclosure size shall not exceed 43.8" high by 18" wide and 6" deep.
4. Company Switch shall protect against access to power connections while the cabinet is energized so it can be guaranteed that output is in a "power off" state while connecting or disconnecting portable output cabling.
5. The company switch shall protect the user from unsecured access to output terminals and connectors in the following methods:
  - a. PowerSafe Compact: Door brackets shall lock swing hinged covers in place until the front door is opened. These brackets shall prevent insertion of connections under power.

- high and 15.93" (405mm) deep, weighing 6.5 pounds (2.95 kgs).  
 6. The 1x20 fader wing shall be 17.88" (434mm) wide, 7.31" (185) high and 1.32" (33.53mm) deep, weight 5.67 pounds (2.57 Kg) .

2.10 PROVIDE THE FOLLOWING:

Qty	Part#	Description
1	ERP48-FT48	Echo Relay Panel Feedthrough 48-way panel with 48 – 20A single Pole Relays
1	ERP24-FT12	Echo Relay Panel Feedthrough 24-way panel with 12 – 20A single Pole Relays
1	PCP	Equipment Rack (for items *)
1	Clock/Timer	Clock / Timer Panel*
1	PJE2006	Littlite Task Light Panel*
1	P-LCD-RM CUS	Custom RM Houselight Panel*
1	ERn2-RM	Control Enclosure, 2-space, Rack-Mount* with
1	P-ACP	Paradigm Architectural Processor*
1	P-SPM	Paradigm Station Power Module*
1	24P-SWITCH	24-Port POE Switch*
1	24P PATCH	24-Port Ethernet Patch Panel*
2	CABLE-MGMT	Network Patch Cables and Cable Mgmt Panel*
1	Custom	Plug-In Panel: DMX/N/N/AD/AD *
1	N34G-4F	Net3 4-Port DMX Output Gateway, Rack-Mt
1	Custom	5U Storage Drawer*
1	UPS	Uninterruptable Power Supply*
1	ION1500	Ion 1500 Control Console
1	2x20FW	2x20 Fader Wing
1	WAP	Wireless Access Point
2	TS20	Touchscreen Monitor, 20"
2		10'-0" Portable Network Cable
1		10'-0" Power Extension Cable
1		Littlite Console
2	ECPB-DI/N/N/AD/AD	Plug-In Station: DMX-IN/Net/Net/AD/AD
2	ECPB-DO/N/N	Plug-In Station: DMX-OUT/Net/Net
2	ECPB-N/N/AD	Plug-In Station: Net/Net/AD
1	TS7-WM-SL	Master Houselight Control Touchscreen w/ Locking Cover

company switches (200A & 400A) eliminated

revised/newly added

1	UH11K05	5-Button Key Switch Control Station
1	UH11K02	2-Button Key Switch Control Station
2	UH10002	2-Button Control Station
2	CS-1	Conn Strip: 9960-5BP36/5-2AD/1-1EO/1-2NET
2	NGJB	Net J-Box @ Ceiling
4	8502B	2-Ckt Floor Pocket: Stage Pin
2	9301B	1-Ckt Surface-Mt Outlet Box: Stage Pin-Pigtail 36"
2	9301B-OU	2-Ckt Pipe-Mt Outlet Box, Offset U-Bolt: Stage Pin

### PART 3. EXECUTION

#### 3.1 INSTALLATION

1. It shall be the responsibility of the Electrical Contractor to receive and store the necessary materials and equipment for installation of the dimmer system. It is the intent of these specifications and plans to include everything required for proper and complete installation and operation of the dimming system, even though every item may not be specifically mentioned. The contractor shall deliver on a timely basis to other trades any equipment that must be installed during construction.
2. The electrical contractor shall be responsible for field measurements and coordinating physical size of all equipment with the architectural requirements of the spaces into which they are to be installed.
3. The electrical contractor shall install all lighting control and dimming equipment in accordance with manufacturer's approved shop drawings.
4. All branch load circuits shall be live tested before connecting the loads to the dimmer system load terminals.
5. The Electrical Contractor must install Electrical Cabinets, conduits and wiring. They must terminate all High Voltage wiring. Low Voltage wiring should be terminated by the ETC Commissioning Tech.
6. To provide assurance of proper installation and operation, the system must be purchased from an approved Theatrical Lighting Systems Integrator:

LVH Entertainment Systems  
Attn: David Pusatere

newly added to clarify the scope of work for electrical contractor

Dpusatere@lvhent.com  
+1 805-278-4584

Polaris Lighting Associates  
Attn: Floyd Payne  
Fpaynepla@sbcglobal.net  
+1 818-265-0330

4Wall Entertainment  
Attn: Vicci Stewart  
Vstewart@4Wall.com  
+1 818-252-7481

newly added to  
clarify the scope of  
work for electrical  
contractor

### 3.2 MANUFACTURER'S SERVICES

1. Upon completion of the installation, including testing of load circuits, the contractor shall notify the dimming system manufacturer that the system is available for formal checkout.
2. Notification shall be provided in writing, two weeks prior to the time that factory-trained personnel are needed on the job site.
3. No power is to be applied to the dimming system unless specifically authorized by written instructions from the manufacturer.
4. The purchaser shall be liable for any return visits by the factory engineer as a result of incomplete or incorrect wiring.
5. Upon completion of the formal check-out, the factory engineer shall demonstrate operation and maintenance of the system to the owner's representatives. Training shall not exceed four working hours. Additional training shall be available upon request.

### 3.3 WARRANTY

1. Manufacturer shall warrant products under normal use and service to be free from defects in materials and workmanship for a period of two years from date of delivery.
2. Warranty shall cover repair or replacement of such parts determined defective upon inspection.
3. Warranty does not cover any product or part of a product subject to accident, negligence, alteration, abuse or misuse. Warranty does not cover any accessories or parts not supplied by the manufacturer.