

APPLICATION DESIGN GUIDE

LVPC-DIM for Lighting Control in Elevated-Security Spaces

GENERAL INFORMATION

Note: in this document “load” can refer to a single luminaire, a single circuit in a multi-function luminaire, or a group of two or more fixtures or luminaire circuits.

DO NOT CONNECT AC POWER TO ANY LVPC-DIM SWITCH INPUT OR DIMMING OUTPUT.

SEE LVPC-DIM USER GUIDE FOR MOUNTING REQUIREMENTS AND INPUT/OUTPUT RATINGS FOR CONNECTED LOADS AND CONTROL SWITCHES.

Independent Load Control with Dimming

The LVPC-DIM must be set to “MODE 4” in this configuration; see the LVPC-DIM User Guide for more information. See the appropriate wiring diagram in these instructions.

The LVPC-DIM can be used to control up to three loads independently. Up to two of the loads can be set up to “push-to-dim” where a short press of a control switch will turn the connected fixture on and off, and a long press will dim the fixture up or down. Loads must be 0-10V dimmable to use the push-to-dim function. These loads will be controlled by switches wired to the SWITCH 1 and SWITCH 2 control inputs on the LVPC-DIM. Fixtures connected to the third load output will have on/off control only via the SWITCH 3 control input.

Independent Load Control with Dimming and System Override


The LVPC-DIM must be set to “MODE 1” in this configuration; see the LVPC-DIM User Guide for more information. See the appropriate wiring diagram in these instructions.

The LVPC-DIM can also be used to control up to two loads independently, with an additional **system override** capability. Up to two loads can be set up to “push-to-dim” where a short press of a control switch will turn the connected fixture on and off, and a long press will dim the fixture up or down. Loads must be 0-10V dimmable to use the push-to-dim function. These loads will be controlled by switches wired to the SWITCH 1 and SWITCH 2 control inputs on the LVPC-DIM.

One or more additional switches can be connected to the SWITCH 3 control input to act as **system override** switches. A short press of an **OVERRIDE** switches will turn on all loads connected to the LVPC-DIM and force their output to 100%. All other load control switches will be deactivated until an **OVERRIDE** switch is pressed again.

Optional Switch Lock-Out Function (all configurations)

By adding a maintained on/off switch (typical rocker or toggle switch) to the SW COM wiring, one or more load control switches can be locked out if/as needed. When a maintained **LOCK-OUT** switch is ON the affected switches will operate normally, but when the maintained switch is OFF the affected switches will not affect the state of the connected loads. This functionality may be useful if certain switches should be deactivated based on time of day or other factors. It may be implemented with either control scheme detailed above and on the following pages.

-  When using electrical equipment, basic safety precautions should always be followed, including the following:
- Read all instructions carefully before installing and save for future use.
 - Make sure all connections are in accordance with the National Electrical Code and local regulations.
 - To avoid possible electric shock, be sure the power supply is turned off before servicing or installing the fixture.
 - Service should be performed by qualified personnel.
 - These instructions may not cover all details or variations. If additional information is needed, please contact Visa Lighting.

LVPC-DIM for Lighting Control in Elevated-Security Spaces

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INDEPENDENT 3-LOAD CONTROL (2 WITH DIMMING) AND OPTIONAL LOCKOUT

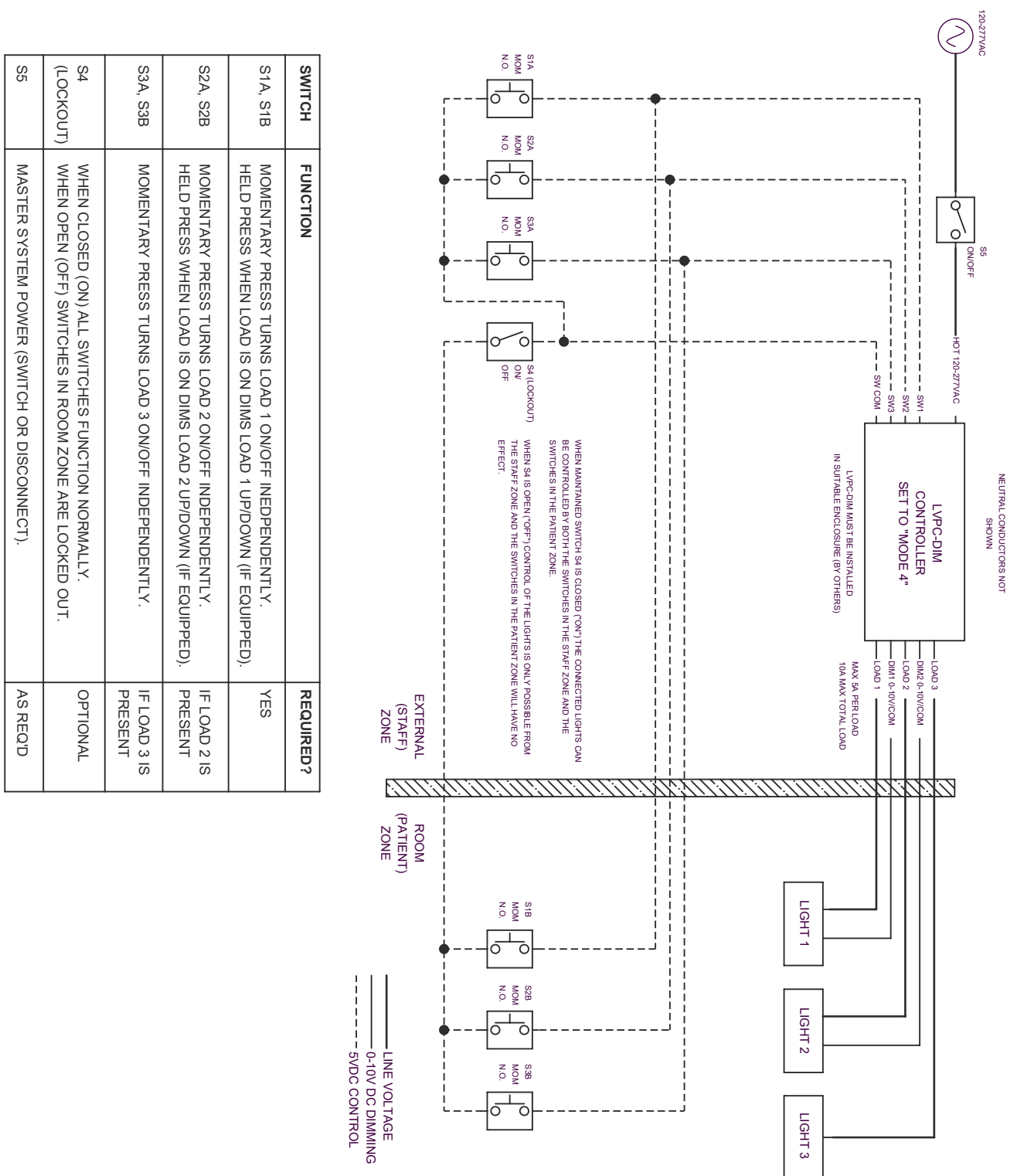
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Rev: A

Sheet: 2 of 3

Eng: CMG

Date Drawn: 9/29/2023



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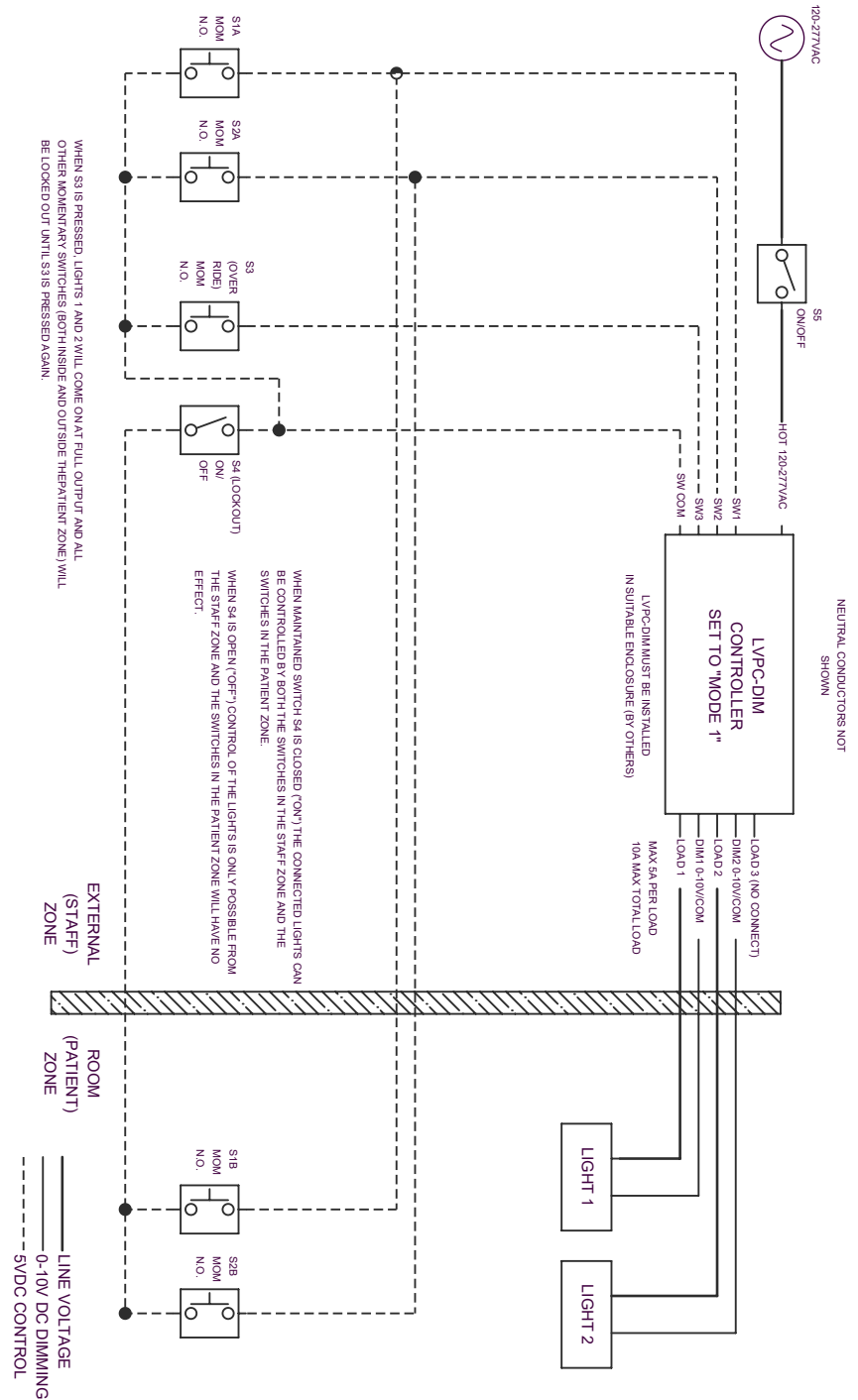
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INDEPENDENT 2-LOAD (WITH DIMMING) WITH OPTIONAL OVERRIDE AND LOCKOUT

Drawing: 762381XX Rev: A Sheet: 3 of 3 Eng: CMG Date Drawn: 9/29/2023

SWITCH	FUNCTION	REQUIRED?
S1A, S1B	MOMENTARY PRESS TURNS LOAD 1 ON/OFF INDEPENDENTLY. HELD PRESS WHEN LOAD IS ON DIMS LOAD 1 UP/DOWN (IF EQUIPPED).	YES
S2A, S2B	MOMENTARY PRESS TURNS LOAD 2 ON/OFF INDEPENDENTLY. HELD PRESS WHEN LOAD IS ON DIMS LOAD 2 UP/DOWN (IF EQUIPPED).	IF LOAD 2 IS PRESENT
S3 (OVERRIDE)	MOMENTARY PRESS TURNS LOADS 1 AND 2 ON AT FULL OUTPUT AND LOCKS OUT ALL OTHER SWITCHES UNTIL S3 IS PRESSED AGAIN.	OPTIONAL
S4 (LOCKOUT)	WHEN CLOSED (ON) ALL SWITCHES FUNCTION NORMALLY. WHEN OPEN (OFF) SWITCHES IN ROOM ZONE ARE LOCKED OUT. MASTER SYSTEM POWER (SWITCH OR DISCONNECT).	OPTIONAL
S5	MASTER SYSTEM POWER (SWITCH OR DISCONNECT).	AS REQ'D



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