

# LOW VOLTAGE CONTROLLER WITH DIMMING

## for Multi-Function Luminaires

### LVCD/LVCD S SERIES

#### PROJECT INFORMATION

Job Name \_\_\_\_\_  
 Fixture Type \_\_\_\_\_  
 Catalog Number \_\_\_\_\_  
 Approved by \_\_\_\_\_

#### PRODUCT FEATURES:

- » Allows low voltage control of line voltage luminaries
- » Individual control mode with smooth dimming
- » Designed to operate up to three separate loads by the closure of low voltage momentary contact dimming switches
- » Can be controlled via patient hand held pillow device, bed side rails, or a wall with dimming capabilities



#### SPECIFICATIONS

**INPUT VOLTAGE:** 120-277VAC, 50/60Hz.

**LOAD RATING:** Up to three (3) LED loads supported, 120-277VAC, 50/60Hz; 5A max per load with a 10A max total device current

**LOW-VOLTAGE MOMENTARY SWITCH REQUIREMENTS:** Dry contacts, momentary, normally open and capable of switching 5VDC @ 0.5mA.

**CONTROL MODES:** The LVCD is factory set to operate three independent loads, two loads with 0-10V dimming control and the third load independently (ON/OFF only).

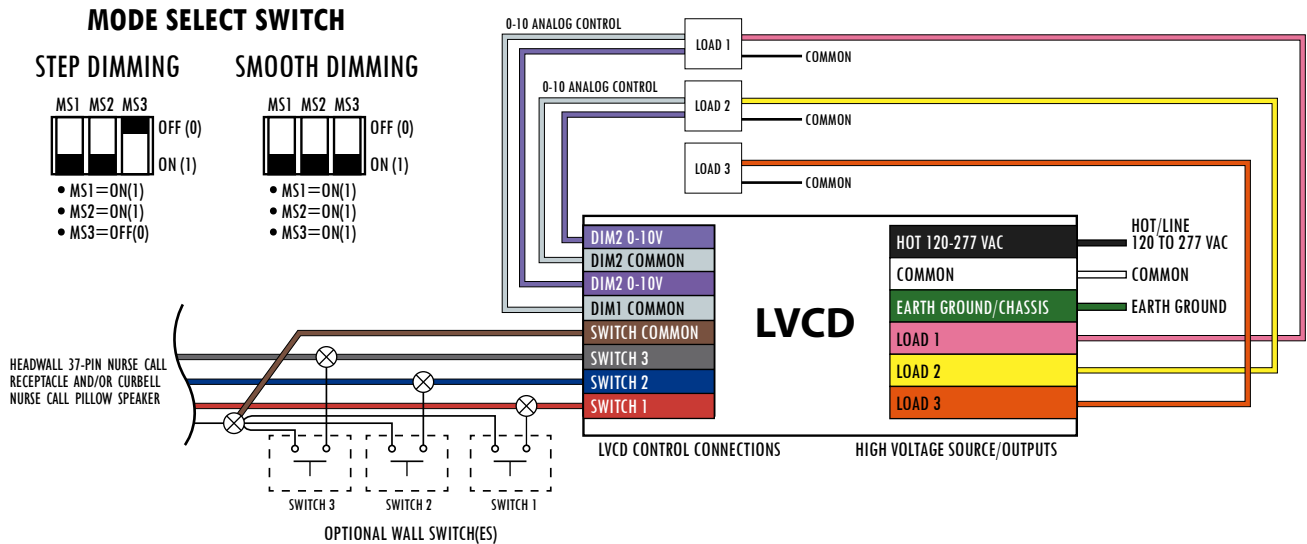
**DIMMING:** Current sourcing 0-10V bi-directional with quick on/off; factory set for 'SMOOTH' dimming which allows the driver to sweep through its dimming range on a sustained button press via wall or bed controller. This includes "dim-to-dark" if the connected driver is capable.

**INSTALLATION:** The LVCD accepts a single universal voltage 120V through 277V. When the LVCD is prewired into a Kenall light fixture, the driver(s) will be pre-wired to the LVCD outputs. The contractor will be responsible for connecting the incoming AC power to the LVCD and connecting the low voltage wiring (Class 2) to the LVCD in an isolated conduit. See wiring diagram below.

**LISTINGS:** UL/CUL listed to UL 508. Compliant with FCC, Title 47 CFR 15 – Class B, RoHS compliant.



#### LOAD 1 AND 2 INDEPENDENT (WITH DIMMING) / LOAD 3 INDEPENDENT ON/OFF (NO DIMMING)



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LVCD allows control up to 3 loads with 3 independent low voltage switches. Load 1 and 2 with dimming capability, Load 3 on/off function (no dimming). (See Table 1)

LV Input	Loads
1	A
2	B
3	C

Table 1: Switching Controls

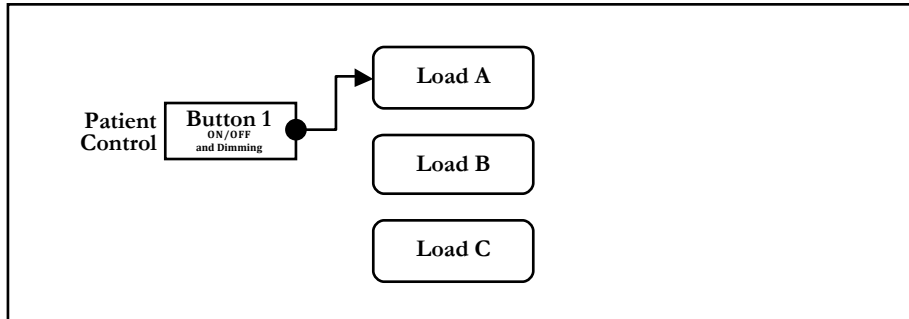


Figure 1: Single Button Patient Control and No Wall Control

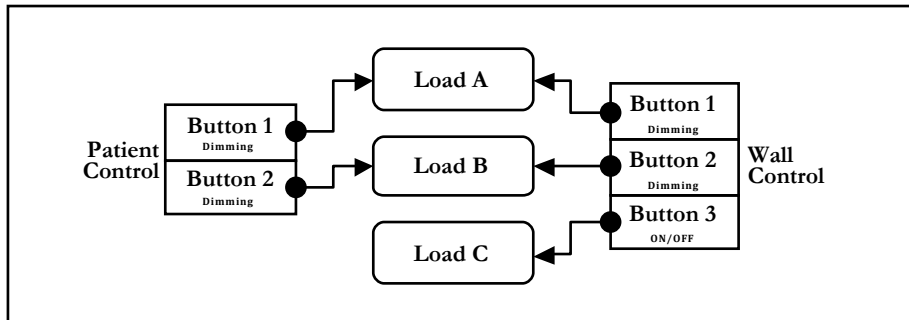


Figure 2: Two – Button Patient Control and Three Button Wall Control



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### Configuration Example

The LVCD configuration description lists the luminaire(s) controlled by each of the three LVC switches. In other words, the first position corresponds to the first wire pair, the second position to the second and so on. See the table below for luminaire description codes. Locate the corresponding configuration number and add this number to the end of the luminaire catalog number.

	[Load A]		[Load B]		[Load C]		Configuration Number
Individual	A	/	R	/	—	/	F-7590

### Control Questionnaire

Select Loads and Control Mode [Input luminaire codes]\*

Load A Luminaire (required)

Load B Luminaire

Load C Luminaire

A	Ambient Light
CL	Chart Light
E	Exam Light

NL	Night Light
R	Reading Light

### Diagram Listing

This table lists each of the possible configurations of the Kenall LVCD with the corresponding part number for the wiring diagram.

Description: [SW1] / [SW2] / [SW3]

### Standard LVCD Configurations

NOTE: For custom configurations, consult factory.

Configuration Number	Description
F-7583	A / - / -
F-7588	R / - / -
F-7589	A / E / -
F-7590	A / R / -
F-7591	R / A / -
F-7593	A / R / E
F-7594	R / A / E
F-7595	A / E / R

Signature: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

PO#: \_\_\_\_\_ Fixture Type: \_\_\_\_\_

**\*\*By signing this, the signee gives approval of the above configuration for the LVCD driver. The order will not be processed unless signed.**



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