

LOW VOLTAGE CONTROLLER WITH DIMMING

for the Multi-Function MedMaster Pillow™ Series

MPCK SERIES WITH LVCD OPTION

PRODUCT FEATURES:

- » Allows for low-voltage control of the Kenall MPCK MedMaster Pillow™ Troffer via patient hand-held device, bed side rail controls, or wall control such as Kenall MPWS series.
- » Adds bi-directional dimming to all connected luminaire lighting functions
- » Specifiable input/output configurations
- » Four-function control: designed to operate up to two (MPCK-22) or three (MPCK-24) separate LED loads plus LED night light
- » Solid-state design for improved reliability and response time over typical relay-based low-voltage controllers

SPECIFICATIONS

ELECTRICAL: Low-voltage 12VDC input, powered by an isolated auxiliary supply from luminaire's integral constant-current LED driver. 1.2W maximum. Controller does not provide line voltage switching. When ordered in conjunction with an LED night light (option codes NLW, NLA), this controller also provides power to the night light LED module via on-board DC-DC driver circuit.

OPERATION: Works in conjunction with luminaire's dim-to-dark 0-10V drivers to provide 100%/0% output control of up to three (3) LED lamp functions based on momentary close input signals from external control devices. Dimming of LED light sources in between 100% and 0% output is via sustained close of connected low-voltage switches. When ordered in conjunction with an LED night light option, subsequent short presses from the corresponding signal input will cycle the night light output level between 12%, 50%, 100% and 0%.

CONTROL MODE CONFIGURATION: Kenall's LVC is factory programmed to operate in each lighting function independently from each other. Please use the included Configuration guides for further description of these Modes as well as for specification of the desired input/output assignment.

INSTALLATION: The LVC will arrive installed within the Kenall luminaire as specified per the selected Configuration. The contractor will be responsible for connecting the low voltage wiring (Class 2) to the LVC in accordance with the applicable electrical code(s). A low voltage wiring diagram will be supplied with the fixture and will match the specified Configuration.

PATENT: U.S. Patent Nos. 9,320,117, 9,951,723, 9,814,118 and 10,149,368.

LISTINGS: UL/cUL Recognized Component per UL8750.



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For the control of up to two (MPCK-22) or three (MPCK-24) LED lamping functions plus an integral LED night light (if ordered) via independent low-voltage, momentary-close switches. See Table for lighting output level and switching sequence. See Figures 1 and 2 for graphical representation of switch/mode control examples.

MPCK-22 Lighting Output Level and Switching Sequence (Will vary based on modes ordered)			
Switch Input	First Toggle (Short Press)	Subsequent Sustained Close of Switch Input (Long Press)	Second Toggle (Short Press)
1	(Not Connected)		
2	Ambient Mode 100%	Ambient Dimming Sweeps High → Low → High	Ambient Mode 0%
3	Reading Mode 100%	Reading Dimming Sweeps High → Low → High	Reading Mode 0%
4	Night Light 12%	Night Light 50%	Night Light 100%
			Night Light 0%

MPCK-24 Lighting Output Level and Switching Sequence (Will vary based on modes ordered)			
Switch Input	First Toggle (Short Press)	Subsequent Sustained Close of Switch Input (Long Press)	Second Toggle (Short Press)
1	Exam Mode 100%	--	RETURN TO PREVIOUS
2	Ambient Mode 100%	Ambient Dimming Sweeps High → Low → High	Ambient Mode 0%
3	Reading Mode 100%	Reading Dimming Sweeps High → Low → High	Reading Mode 0%
4	Night Light 12%	Night Light 50%	Night Light 100%
			Night Light 0%

MPCK-22 Low Voltage (LVCD) Wiring Example (16LM/50LM-NLx shown)

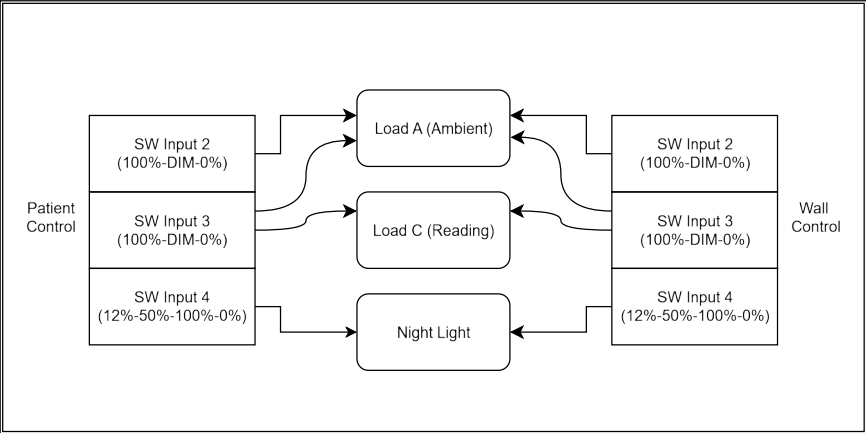


Figure 1: Three-button Patient Control and Three-Button Wall Control

MPCK-24 Low Voltage (LVCD) Wiring Example (32LM/52LM/140LM-NLx shown)

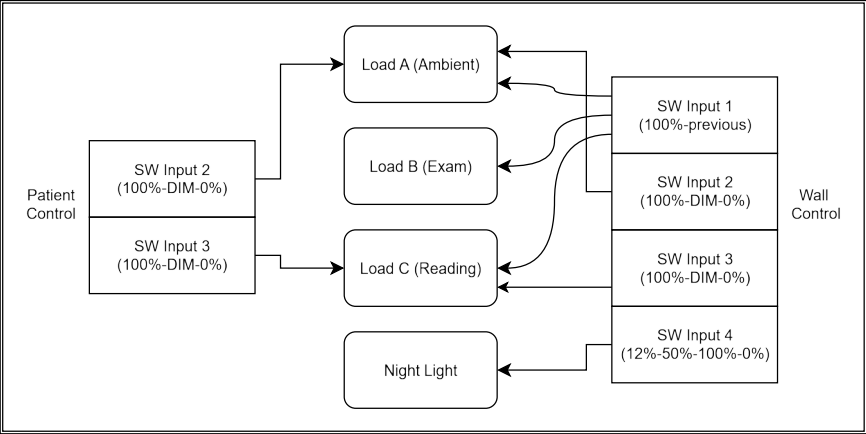


Figure 2: Two-button Patient Control and Four-Button Wall Control

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Standard LVC Configurations

Match up the following Configuration Number (F-xxxxx) associated with the fixture modes that have been ordered. Add this Configuration Number to the end of the luminaire catalog description.

FIXTURE	Input Configuration				Configuration Number
	Load A [Switch 2]	Load B [Switch 1]	Load C [Switch 3]	Load NL [Switch 4]	
MPCK-22	Ambient	--	--	--	F-10566
MPCK-22	Ambient	--	--	Night Light	F-10567
MPCK-22	Ambient	--	Reading	--	F-10568
MPCK-22	Ambient	--	Reading	Night Light	F-10569
MPCK-24	Ambient	--	--	--	F-10576
MPCK-24	Ambient	--	--	Night Light	F-10577
MPCK-24	Ambient	Exam	--	--	F-10578
MPCK-24	Ambient	Exam	--	Night Light	F-10579
MPCK-24	Ambient	Exam	Reading	--	F-10580
MPCK-24	Ambient	Exam	Reading	Night Light	F-10581
NOTE: For custom configurations, consult factory.					

Signature: _____

Name: _____ Date: _____

PO#: _____ Fixture Type: _____

Configuration Number: _____

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