



### LC9

Dual Set-Point Single Level  
Lighting Controller

#### DESCRIPTION

The **LC9** photocell lighting control system automatically switches indoor or outdoor electrical lighting in response to changes in natural daylight. The low voltage system consists of a Control Module in a plastic case, a photoconductive sensor, and a Power Cube Switcher unit.

#### ADJUSTABILITY/OPERATION

The **LC9** switches loads at specific light levels. It offers the convenience of low voltage control while being powered by either 120 VAC or 277 VAC. A remote sensor monitors changing light levels. The sensor signal is compared against the **LOW** and **HIGH** light level setpoints on the control board. As the sensor detects decreasing light level that corresponds with the **LOW** setpoint, the control board matches the two signals. The Power Cube then transforms the signal to close it's relay and the lights are switched **ON**. Conversely, as light levels increase and the sensor signal matches the **HIGH** setpoint, the lights are switched **OFF**.

#### CONSTRUCTION

To assure optimum performance and highest standards, all electronic components are of computer grade quality assembled onto a fiberglass epoxy circuit board. The sensor is encapsulated in epoxy to assure a weather-proof seal. All products are factory tested to assure maximum reliability.

#### APPLICATION

The **LC9** is the ideal system for indoor lighting control.

##### Typical uses include:

Rooms  
Lobbies  
Corridors  
Classrooms  
Factory offices  
Perimeter lighting  
Warehouse offices



# LC9 Controller DISCONTINUED



#### FEATURES

- **Powered by choice of 120VAC or 277VAC.**
- **Class 2 low voltage sensor & control board provide SAFETY AND EASY INSTALLATION.**
- **120VAC/277VAC 20A N.O. Contact for Incandescent and Fluorescent loads.**
- **Choice of sensor styles—indoor, outdoor or skylight photoconductive sensors.**
- **Sensors provides a 2-3,000 footcandle adjustment range.**
- **Override allows for testing output loads.**
- **Indoor sensor is equipped with flat Fresnel lens, which through a precise 60 degree cone of response, reduces light measurement errors.**
- **Product pays for itself in energy saved! Qualifies for many utility rebate programs.**
- **A 2 Year Warranty assures the user of the highest standards of manufacture as well as customer service and**



# PLC-MULTIPOINT, INC.

## PHOTO LIGHTING CONTROL & SYSTEMS

DATA SHEET

### LC9 TECHNICAL DATA

#### CONTROLLER

<b>Style:</b>	LC9S Surface mount box LC9F-Ivory or White wall-switch face plate
<b>Input Voltage:</b>	24 VDC
<b>Color:</b>	Ivory or White
<b>Board Size:</b>	2.75" H x 1.75"W x 1"D
<b>Box Size:</b>	3.25" H x 2.13"W x 1.5"D
<b>Faceplate Size:</b>	4.5" H x 2.75" W
<b>Indicators:</b>	Red High and Low LEDs
<b>Adjustments:</b>	Separate High & Low Level Setpoints

#### POWER CUBE SWITCHER

<b>Style:</b>	PCS/120=120VAC input voltage PCS/277=277VAC input voltage
<b>Control Power:</b>	24 VDC
<b>Ratings:</b>	120VAC - 1800 watts 277VAC - 4800 watts
<b>Contacts:</b>	1 Normally Open 20A
<b>Max. Run:</b>	500ft. From control
<b>Size:</b>	2.5"H x 1.5"W x 1.37"D
<b>Mounting:</b>	1/2" Knockout
<b>Options:</b>	SC Slave relay - switches 120VAC at 3,000 watts through N.O. 15A contact

#### ORDERING EXAMPLE

LC9S	-PCS/277	-SC	-PC5A
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<u>Model</u>	<u>Power</u>	<u>Option</u>	<u>Sensor</u>
S = Surface	PCS/120	SC	PC1A
F-I = Flush Ivory	PCS/277		PC5A
F-W = Flush White			PC5AD
			PC9A
			PC9AD

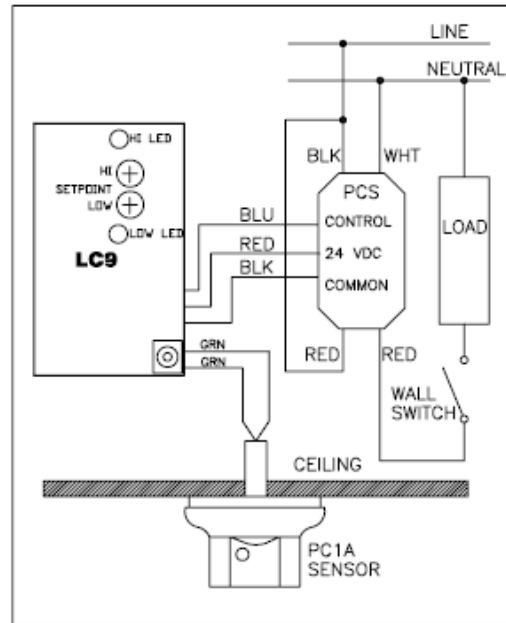
### SPECIFICATION

#### Photoconductive Sensor

The Photoelectric device shall be a Class 2, low voltage ambient light sensor designed to interface directly via 18 gauge wire to the controller. The sensor shall supply an analog input signal to the controller inversely proportional to the light measured. The sensor shall be capable of measuring indoor ranges of 6 to 50 Fc, outdoor ranges of 2 to 40 Fc or 40 to 500 Fc, atrium ranges of 40 to 750 Fc, or skylight ranges of 400 to 3000 Fc. The Photoelectric device shall be **PLC-MULTIPOINT PC** sensor.

#### Controller

The Controller shall be powered by 24VDC, and have separate high and low fully adjustable setpoints. Light level setpoint status indication shall be provided. The controller shall be enclosed for surface mounting or affixed to a switch-plate for installation in a wall-switch box. The controller shall have override capability. The Controller shall be **PLC-MULTIPOINT LC9**.



### Photo Conductive Sensor Selection

<u>SENSOR</u>	<u>STYLE</u>	<u>LENS</u>	<u>FILTER</u>	<u>MOUNTING</u>	<u>ORIENTATION</u>	<u>MINIMUM - Fc</u>	<u>MAXIMUM - Fc</u>
PC1A	Indoor	Fresnel	Clear	Ceiling	Down	6 Fc	50 Fc
PC5A	Outdoor	Flat	Clear	1/2" IPT	Horizontal	2 Fc	40 Fc
PC5AD	Outdoor	Flat	Dark	1/2" IPT	Horizontal	40 Fc	500 Fc
PC9A	Atrium	Dome	Opaque	1/2" IPT	Horizontal	40 Fc	750 Fc
PC9AD	Skylight	Dome	Dark	1/2" IPT	Up	400 Fc	3000 Fc