



LC9PF

Dual Set-Point Single Level
Lighting Controller with Photo sensor

DESCRIPTION

The **LC9PF** indoor photocell lighting control system automatically signals a power output devices such as a motion sensor, energy management system dedicated PLC-Multipoint switch-pack to switch indoor electrical lighting in response to changes in natural daylight.

The low voltage system consists of a Control Module on a plastic cover and an onboard indoor photoconductive sensor. Power output controls are provided by a motion sensor switch-pack, an energy management system or a dedicated PLC-Multipoint switch-pack.

ADJUSTABILITY/OPERATION

The **LC9PF** switches loads at specific light levels. It offers the convenience of low voltage control while being powered by the 24VDC power supply that operates the host system. An onboard photo sensor monitors changing light levels. The sensor signal is compared against the **LOW** and **HIGH** light level set points on the control board. As the sensor detects decreasing light level that corresponds with the LOW set point, the control board matches the two signals. The host's output device 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 set point, the lights are switched **OFF**.

CONSTRUCTION

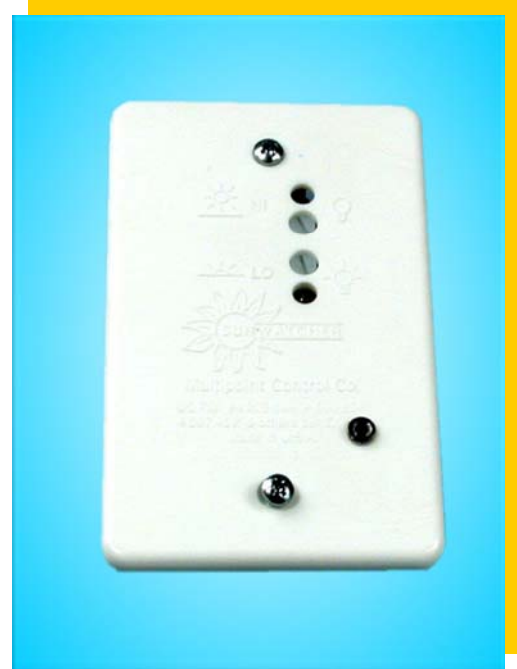
To assure optimum performance and highest standards, all electronic components are of computer grade quality assembled onto a fiberglass epoxy circuit board. The sensor is mounted on the faceplate to assure easy mounting to a standard ceiling mounted switch box. All products are factory tested to assure maximum reliability.

APPLICATION

The **LC9PF** is the ideal system for indoor lighting control.

Typical uses include:

Rooms	Lobbies
Corridors	Classrooms
Factory offices	Perimeter lighting
Warehouse offices	



FEATURES

- **Powered by system power supply, Motion sensor switch-pack, or building Automation system.**
- **Class 2 low voltage sensor & control board provide SAFETY AND EASY INSTALLATION.**
- **120VAC/277VAC 20A N.O. Contact for Incandescent and Fluorescent loads.**
- **An onboard sensor provides a 2-50 footcandle adjustment range.**
- **Two set points allow for separate On and Off levels to prevent system oscillation.**
- **Indoor sensor is equipped with flat 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 satisfaction.**



PLC-MULTIPOINT, INC.

PHOTO LIGHTING CONTROL & SYSTEMS

LC9PF TECHNICAL DATA

CONTROLLER

Style: LC9PF Wall-switch faceplate
Input Voltage: 24 VDC
Color: Ivory or White
Board Size: 2.75" H x 1.75"W x 1"D
Faceplate Size: 4.5" H x 2.75" W
Indicators: Red High and Low LEDs
Adjustments: Separate High & Low Level Setpoints

POWER CUBE SWITCHER

Style: PCS/120=120VAC input voltage
 PCS/277=277VAC input voltage
Control Power: 24 VDC
Ratings: 120VAC - 1800 watts
 277VAC - 4800 watts
Contacts: 1 Normally Open 20A
Max. Run: 500ft. From control
Size: 2.5"H x 1.5"W x 1.37"D
Mounting: 1/2" Knockout

OPTIONAL SLAVE RELAY

Style (Part number): SC
Control Power Out: None
Circuit Ratings: 120VAC - 1400 watts
 277VAC - 3000 watts
Contact Ratings: 1 N.O. 15A 50/60 Hz

* Requires 24VDC power supply from system or switch-pack.

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 and scaled set points. Light level set point status indication shall be provided. The photocell and integral controller shall be affixed to a switch-plate for installation in the ceiling to a wall switch box. The controller shall have a time delay before activating output. The Controller shall be **PLC-MULTIPOINT LC9PF**.

The Relay output shall be capable of 20A current load at 120 or 277VAC. The relay shall be FORM A with a coil voltage of 24VDC. The Relay shall be **PLC-MULTIPOINT PCS**.

