

# eCLIPSE

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**Automated  
Shade Control  
with Photo Sensor  
Technology**

**C-Series**



**A New Twist on a Timeless Technology**

# **eCLIPSE**

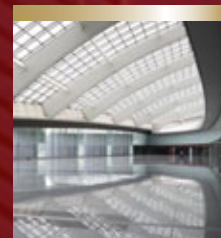
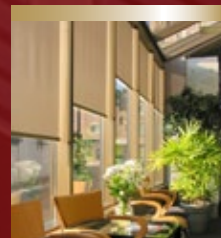
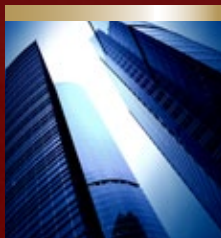
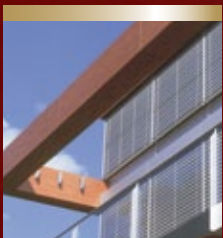
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## **Reduce Your Lighting and Cooling Costs with Automated Shades and Photo Sensors.**

*Shades have been used in American homes and businesses for nearly 100 years. It's always been a simple and reliable way to control the effects of the sun within any space. Today, with even more emphasis on reducing energy costs, there's never been a better time to use shades as a cost-effective way to reduce the use of electricity for lighting and cooling your building.*

*PLC has taken shade technology one step further by incorporating operational controls. Now, with some simple programming, you can command your shades to open, close, or set a blade angle, all based on time of day or the amount of sunlight in a room.*

*Introducing the Eclipse, from PLC, which gives you complete control of commercial-grade venetian and louver-style shades.*



## Fully Automated Control Based on Photo Sensor Technology

One of the key elements of the Eclipse shade control system from PLC is its integration with photo sensors. Using the Eclipse photo sensor monitoring system, as the sun changes throughout the day, the shades are automatically adjusted. This enables you to balance levels of lighting and cooling in every room of your building.

## The Highest Standard in Photo Sensor Monitoring

PLC has been providing the industry with ambient light sensors for more than 20 years. These sensors boast the highest level of quality with a wide range of features. When using these sensors, you can trust that they will provide trouble-free installation and operation.

## Smooth Operation Guaranteed

We've worked through all the details of daily operation, incorporating the necessary controls to keep things running smoothly. The Eclipse shade control system has built-in algorithms to account for situations that could cause light levels to increase or decrease for a very brief period of time. Things such as small clouds passing overhead or a stray beam from a passing car could cause other systems to act incorrectly. The Eclipse has programmable time delays, which provide a wait period, allowing a brief amount of time before acting on what has been sensed.

## You Always Have Complete Control with the PLC Eclipse

The Eclipse shade control system also allows you to program exact times for the shades to open,



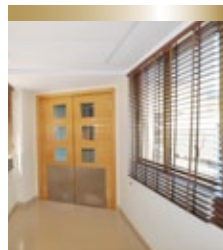
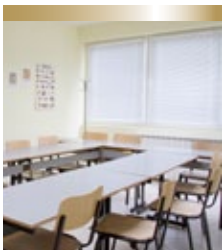
close, or set to any angle. Once programmed, the system will operate to these settings regardless of any photo sensor readings. You can also override all the settings in the system, operating the blinds manually for a specific period of time.

## Big LEED Benefit with Minimal Costs

LEED Certification is the most recognized global standard for high-performance buildings that are efficient, cost effective, and better for occupants and the environment. The Eclipse shade control system is an ideal addition to any building seeking this certification.

## A Perfect Solution

The PLC Eclipse is a perfect way to supplement any automated daylighting solutions. It provides the ability to reduce the use of electricity for lighting and cooling while still allowing complete flexibility of inhabitant control. The system is extremely cost effective to incorporate into any building automation strategy.



## Specifications

### Main Controller

#### Enclosure

- Surface-mount NEMA Type 1, hinged door, 16-gauge sheet steel

#### Zones

- Up to four (4) open/close groups (zones) per system

#### Network

- 24VDC control bus

#### Inputs

- Up to 16 dry contact inputs typically used for:
  - Wind System Monitoring
  - Fire Alarm System Monitoring
  - Security System Monitoring
  - Building Automation Integration

#### Outputs

- Up to 5 programmable light-intensity set points, each associated to a particular vane position

#### Photo Control

- Minimum set point of 500fc (adjustable at the controller)
- Delay time of 120 seconds (adjustable at the controller)

### Local Controller

#### Relays

- Solid-state open/close output relays

#### Inputs

- Isolated inputs from local override switch

#### Motor

- Overload protection and end-of-motion snap switches to prevent maintained locked motor conditions

#### Override

- Three-position return-to-center selector switch that isolates outputs (24VDC)

### Photo Sensor

Reference PLC Sensors Product Information for a wide array of application solutions that can be easily used with the Eclipse.



Lighting Control Systems

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