



LCM-IE SERIES

Interior/Exterior Lighting Control

PROJECT	
LOCATION	

APPLICATIONS

- Parking Lots
- Parking Decks
- Offices
- Schools
- Retail Outlets
- Gymnasiums
- Warehouses
- Aircraft Hangars

DESCRIPTION

The LCM-IE series control panel is a cost-effective and easily-configurable stand-alone lighting control system with programming and accessories specifically optimized for interior and exterior applications. Capable of supporting 2, 3, 4 or 6 zones with photo, time clock, remote switching and timed override with sweep sequence programs for each zone. A maximum of 48 circuits can be accommodated in each base panel (4- or 6-zone) and up to 96 circuits in each expansion panel.

The four line LCD screen prompts the user to enter photo sensor set point limits and time schedules which are saved in flash memory.

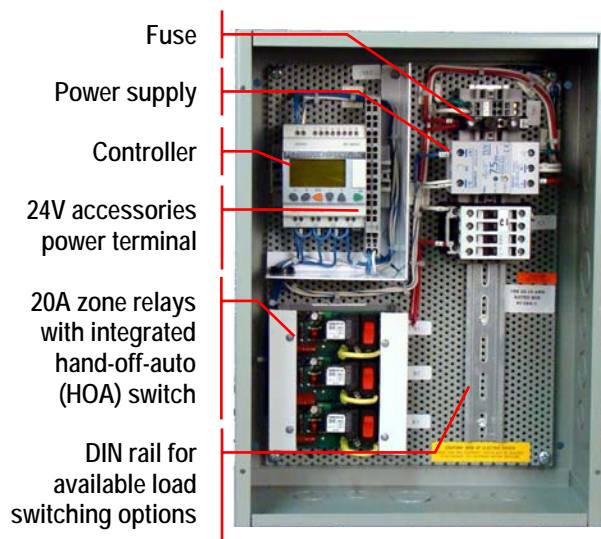
Adjustments to the settings and schedules can be made with pushbuttons on the controller face. The controllers are password protected so that program adjustments can only be made by authorized personnel. Time switch operations use the internal real-time clock. The battery backed real-time clock is accurate to one second/month and can be adjusted for drift. Time circuits are automatically adjusted for daylight savings time and leap year unless otherwise specified.

Advantages to the LCM-IE series are found in the system's stability, versatility, quality and accuracy. Once mounted, the sensor, power, and lighting loads need only to be wired and the LCM is ready to operate.

The controller has specific program application. These program applications are matched with the appropriate sensor to create optimal packaging and system efficiency.

CONSTRUCTION

The LCM controller has been designed with safety in mind. The processor is located in the low voltage compartment, ensuring safety during adjustment. The LCM controller is housed in a surface mount NEMA TYPE 1, hinged door, grey painted steel enclosure. High and low voltage components are separated by NEC/NFPA mandated voltage barriers. The entire assembly is constructed to ANSI/UL508A and CSAC22.2-14M91 standards and each unit carries an Electrical Testing Laboratories inspection label.



DATA SHEET

FEATURES

- 2, 3, 4 or 6 individual zones, each with photo control, time clock scheduling, remote switching, and timed override with sweep sequence
- Factory-preprogrammed, field-configurable controller offers eight zone configuration modes
- Menu-driven LCD screens and front control buttons allow for easy adjustment of ON and OFF set points
- Accumulated run time hours are logged
- 20A zone relays include integrated hand-off-auto (HOA) switches
- Load switching options are available with factory-wired 4- or 8-pole 20A contactors
- Base panel accommodates up to one photodiode sensor per zone, available in indoor, outdoor, atrium and skylight configurations
- Photo mode can be configured for setup (no timers) or auto (full program)
- Input photo sensor time delay prevents intermittent or false switching
- 1/2-hour hold-on timer prevents high intensity discharge lighting from short-cycling
- Time clock configurable as 7-day with two ON/OFF events per day; or 7-day with optional timed override and sweep sequence
- 2-year warranty



PLC-MULTIPOINT, INC.

PHOTO LIGHTING CONTROL & SYSTEMS

TECHNICAL DATA - LCM-IE SERIES

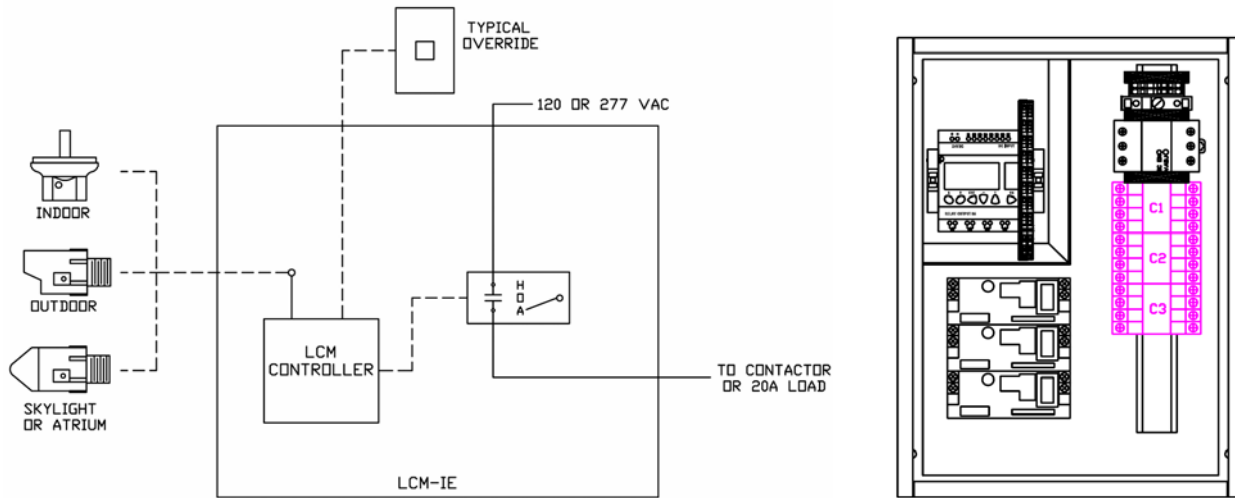
Input Voltage:	120VAC or 277VAC
Output Zones:	Two-, four- or six- 20A zone relays controlling optional 20A (4- or 8-pole) contactors
Control Modes:	Displayed on LCD mode screen: <u>SETUP</u> : Photo set point control - No timers <u>AUTO</u> : Photo sensor control with timers (ON at low, OFF at high set points)
Input Delay:	Photo sensor: 60-seconds (setup mode override)
Hold-ON-Timer:	Time clock: 30-minutes (setup mode override)
Override Switch:	Internal hand-off-auto (HOA), integrated in zone relay
Enclosure Dimensions:	2- or 3-Zone: 16"H x 12"W x 6"D (NEMA-1 Surface Mount Enclosure) 4- or 6-Zone: 18"H x 18"W x 6"D (NEMA-1 Surface Mount Enclosure)
Temperature Range:	32° to 140°F (0° to 40°C)

DATA SHEET

ZONE PROGRAMMING CONFIGURATION MODES

<u>Code</u>	<u>Description</u>	<u>Key Application (s)</u>
1	Exterior-Photo	Security lighting
2	Exterior-Time	Canopy lighting
3	Exterior-Photo/Time	Sign lighting
6	Interior HID-Time	General lighting; suitable for HID applications
7	Interior HID-Photo	Atriums, skylights; suitable for HID applications
9	Exterior-Photo with Maintenance Timed Override	Enhanced security, sign lighting
14	Interior-Time w/ Timed Override & Sweep Sequence	General lighting; not suitable for HID applications
15	Interior-Photo/Time w/ Timed Override & Sweep Sequence	Atriums, skylights, daylighting; not suitable for HID applications

TYPICAL LCM-IE-04Z BLOCK DIAGRAM & ASSEMBLY DRAWING (Typical 2, 3, 4 & 6 Zones)



ORDERING INFORMATION

LCM-IE - Z - V — **INPUT VOLTAGE:** 120VAC or 277VAC

NUMBER OF ZONES: Available with two- (02), three- (03), four- (04) or six- (06) zones. Maximum of three (4- or 8-pole) contactors can be installed in two- or three- zone; and six contactors in four- or six-zone base panels; Additional contactors can be installed in contactor expansion panels.

ACCESSORIES — See **LCM-Series Accessories Selection Matrix** (Listed Separately)