

The KMC Controls Lighting Solutions network relay cabinets enable lighting applications of all sizes to be easily controlled as a complete integrated system. With eight or twelve discrete inputs, these cabinets readily incorporate occupancy sensors, photocells, low voltage switches, and a variety of other input devices.

Eight different digital switch models are available for control from multiple locations, offering added flexibility.

Designed for intuitive programming and operation, Lighting Solutions cabinets feature a large keypad and a 2-line, 16-character LCD screen.

### Features

- ◆ Integrated astronomical time clock
- ◆ Relays are rated for all light sources as well as motors
- ◆ Relays are individually replaceable
- ◆ Single pole and two pole relays fit in the same location. Same density regardless!
- ◆ Normal or Emergency cabinet capability
- ◆ Cabinet is prewired and tested
- ◆ Standard transformer has inputs for 120, 277, or 347 volts AC power
- ◆ Cabinets may be surface or recess mounted
- ◆ Master and Slave Cabinet configurations

### Applications

- ◆ Office spaces – large and small
- ◆ Schools
- ◆ Churches
- ◆ Convention centers
- ◆ Parking lot lighting
- ◆ Ballpark lighting – professional and recreational
- ◆ Municipal parks
- ◆ Residential lighting



### Specifications

Lighting Solutions Cabinets work with:

- ◆ Analog Controllers
- ◆ Low Voltage Switches
- ◆ Discrete and Analog Photocells
- ◆ BACnet MS/TP

### Sources

- ◆ Incandescent (Tungsten) and Halogen
- ◆ Magnetic Low Voltage Transformer
- ◆ Electronic Low Voltage Transformer
- ◆ Neon or Cold Cathode
- ◆ Magnetic and Electronic Fluorescent Lamp Ballasts
- ◆ HID
- ◆ Motor Loads (1 HP at 120 volts, 2 HP at 277 volts, 2 HP at 480 volts)

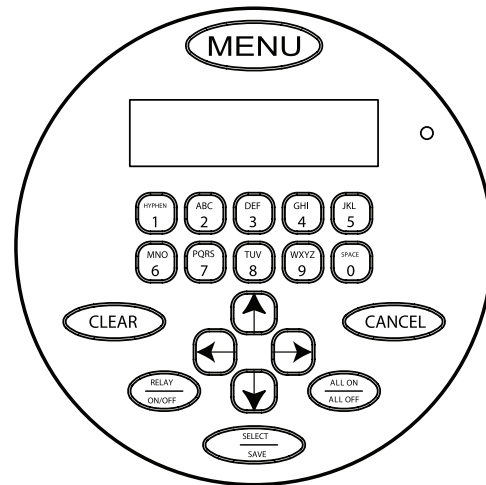
## Control Module

The control module is used to configure the entire system. The controller features an LCD user interface to facilitate programming of all switching system and astronomic time clock (ATC) parameters.

- ◆ Integrated astronomic time clock (ATC) automates switching with up to 999 user-defined events and 999 holiday schedules.
- ◆ ATC events may be triggered by time of day or by a time offset from either sunrise or sunset.
- ◆ System location is programmable by specifying your location.
- ◆ ATC automatically adjusts for daylight savings time and leap year where applicable).
- ◆ Programmable “blink warn” and user programmable refresh time.
- ◆ Overrides available at cabinet for controls, time clock, and relays.
- ◆ Located in the cabinet for easy access.
- ◆ Eight (8 cabinet model) or twelve (24 and 48 cabinet models) low voltage switch inputs (24 volts DC) (additional 36 discrete inputs are available for the 24 and 48 cabinets – See accessories data sheet for details)
- ◆ Emergency sensing control power loss circuitry
- ◆ Astronomic time clock
- ◆ Daylight harvesting
- ◆ Prioritization of switch inputs and TOD schedules
- ◆ Switch input timers
- ◆ Timed overrides
- ◆ Master override (On/Auto/Off)
- ◆ Individual override switch per relay

### Astronomic Time Clock

- ◆ Capable of up to 999 events
- ◆ Capable of 999 holidays
- ◆ Holiday schedules are programmable one year in advance
- ◆ Astronomic time clock programmable by entering your location
- ◆ California Energy Code Title 24 compliant



Front Panel Control Module

### Switch Inputs

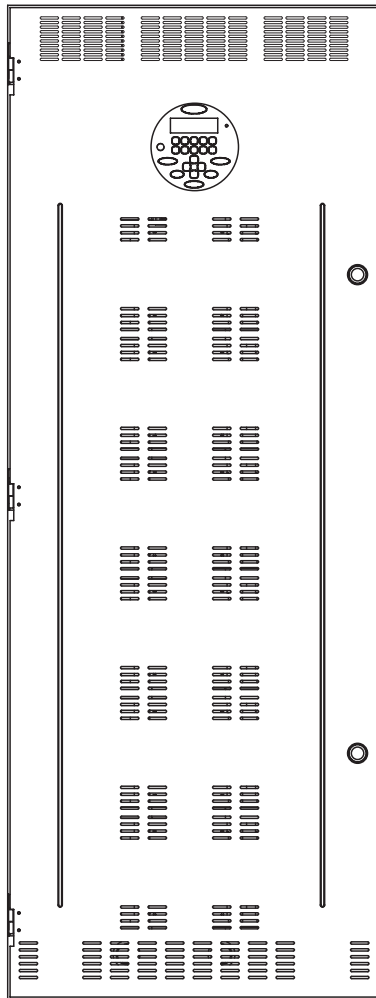
- ◆ 8 or 12 (depending on cabinet) Switch inputs
- ◆ Inputs can control the following
  - Low Voltage Switches including maintained, momentary, and toggle
  - Occupancy Sensors
  - Analog Photocells
  - Discrete Photocells
  - Analog Inputs
  - Contact Closures
- ◆ May be configured as pull up to 24 volts DC (externally supplied) or pulled down to common

### Power

- ◆ Input Power: 120, 277, and 347 volts AC. All voltages 50/60Hz, phase to neutral
- ◆ Lifetime power failure memory: restores lighting to levels prior to power interruption
- ◆ User adjustable for either sequential or non sequential cycling of relays

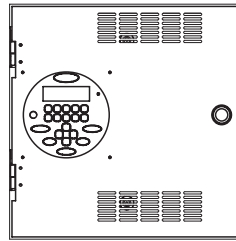
### Wiring

- ◆ Factory prewired and tested
- ◆ System Communications: Low voltage Class 2 (PELV) wiring connects cabinets to external controls
- ◆ Line (mains) voltage: Feed (for Control Electronics) and
- ◆ Load wiring only. No other wiring or assembly required.



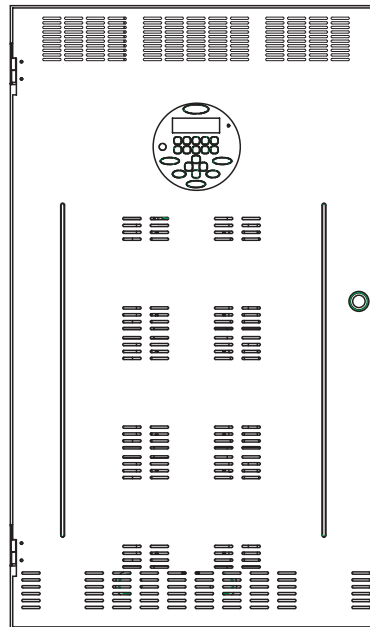
**Forty eight relay panel**

All Voltages  
Up to 48 Relays



**Eight relay panel**

All Voltages  
Up to 8 Relays



**Twenty four relay panel**

All Voltages  
Up to 24 Relays

**Physical Design**

- ◆ NEMA-Type 1 enclosure, IP-20 protection;
- ◆ #16 U.S. Gauge Steel. Indoors only.

**Mounting**

- ◆ Surface or recess mount
- ◆ Recessed mounting flanges available

**Environment**

- ◆ 32-104° F (0-40° C) relative humidity less than
- ◆ 90% non-condensing.

**Regulatory standards**

- ◆ UL 924
- ◆ UL and CUL Listed (Reference: UL File EI23072)
- ◆ CEC Title 24 Compliant
- ◆ ASHRAE 90.1 Compliant

**Relays**

- ◆ Several styles of relay cards to choose from:
  - Single-pole, 120-277 volts AC, 20 ampere
  - Single-pole, 120-347 volts AC, 20 ampere
  - Two-Pole 208-480 volts AC, 20 ampere
  - Latching 277 volts AC, 20 ampere continuous use
- ◆ Relays rated at 20 amperes for N/O or N/C continuous use lighting loads
- ◆ Relays rated at 20 amperes for lighting loads.
- ◆ Zero crossing circuit eliminates arcing at mechanical contacts when loads are switched. Prolongs relay life to an average of 10,000,000 cycles (on/off). Handles 50 times in-rush. Rated for resistive, inductive, or capacitive sources.

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