

# **KMC Lighting Master Lighting Control Cabinets**

The KMC Controls lighting cabinets provide solutions to lighting applications of all sizes. They can be installed as a single cabinet or easily combined with other cabinets for 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 cabinets from KMC Controls feature a large keypad and a two-line, sixteen-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

#### **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

#### **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)

#### Networking

- ◆ Cabinet to cabinet networking on shielded twisted pair, EIA-485 network cable
- ◆ BACnet MS/TP

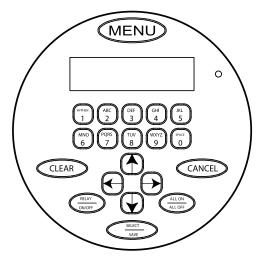
#### Control module

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

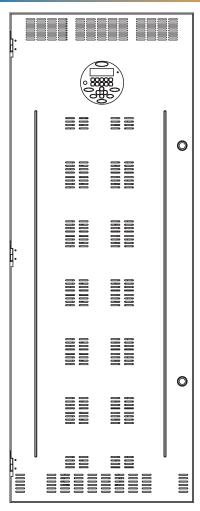
#### Wiring

- ◆ 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.

#### Installation

#### **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



L900-R48MD-000

All Voltages Up to 48 Relays

#### **Construction**

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

#### Mounting

- Surface or recess mount
- Recessed mounting flanges available

#### **Environment**

- ♦ Relative humidity less than 90% non-condensing.
- ◆ For indoor use only

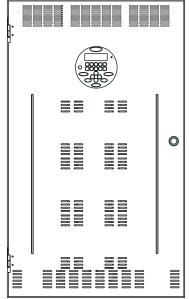
## Regulatory standards

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



#### L900-R08ND-000

All Voltages Up to 8 Relays



#### L900-R24MD-000

All Voltages
Up to 24 Relays

# **Dimensions**

#### L900-R08ND-000: 8-relay cabinet

Wide	High	Deep
13.00 in.	13.00 in.	4.00 in.
330 mm	330 mm	102 mm

#### L900-R24MD-000: 24-relay cabinet

Wide	High	Deep
20.25 in.	34.00 in.	4.00 in.
514 mm	864 mm	102 mm

#### L900-R48MD-000: 48-relay cabinet

Wide	High	Deep
20.25 in.	54.00 in.	4.00 in.
514 mm	1372 mm	102 mm

# **Ordering information**

Order the following master lighting cabinet model numbers:

Model number	Ordering description
L900-R08ND-000	Panel; Network; 8 Relay Capacity
L900-R24MD-000	Panel; Network; 24 Relay Capacity
L900-R48MD-000	Panel; Network; 48 Relay Capacity

# Accessories

## Relays

The following relays are available for installation in KMC Controls lighting cabinets. Complete relay specifications are listed in the datasheet "Lighting Control Relays".

Model number	Ordering description
L211-RELAY-ST2	Relay; 120/277V 20A Single Pole N.C.; (8) per carton
L202-RELAY-2PL	Relay; 120/277V 20A Double Pole N.O.; (8) per carton
L200-RELAY-1NC	Relay; 120/277V 20A Single Pole N.C.; (8) per carton
L201-RELAY-2NC	Relay; 120/277V 20A Double Pole N.C.; (8) per carton
L203-RELAY-347	Relay; 347V, 20A Single Pole N.O. (8) per carton.
L206-RELAY-LAT	Relay; 120/277V 20A Single Pole Latching; (8) per carton

# Voltage barrier

Add between every eight relays in 24 and 48 relay cabinets.

Model number	Ordering description
LRAC00-VBR	Barrier; Voltage; To be used between groups of (8) relays

# Input card

Model number	Ordering description
LRAC00-SIB	Input Card; 36 Input; For 24 & 48 Relay Panel

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