



Installation Guide

CMR

CMR-120-1000L
CMR-240-1000L
CMR-277-1000L

CMR-120-1000H
CMR-240-1000H
CMR-277-1000H



Overview

The ILLUMRA™ CMR works with any dawn/dusk sensor to save energy and reduce light pollution through load shedding in parking lots, parking garages, and street lights. The device turns on connected lighting loads for only the first half of the night when more light is needed. It is compatible with all of the common lighting loads such as: metal-halide, sodium-vapor, induction, fluorescent, and LED luminaires.

The device is easily installed in luminaires, junction boxes, and wiring cavities. It automatically synchronizes to existing dawn/dusk sensors and automatically calibrates its astronomical timer to the changing seasons.

It also limits peak-demand by sequencing the turn-on time. In large parking lots and garages, this feature prevents all of the connected loads from energizing simultaneously, thereby preventing a large demand surge, which improves contactor wear.

Installation

CAUTION/NOTES:

WARNING: To avoid risk of fire, shock, or death, TURN OFF POWER at circuit breaker or fuse and verify that it is OFF before installation begins. Make sure that it remains OFF until installation is complete.

Always follow local electrical codes when installing this device. Installation should be performed by a qualified electrician.

ILLUMRA Relays are intended for use in dry locations, and with permanently installed fixtures.

This product is not rated for motor loads.

ILLUMRA Relays should NOT be installed in a location where the unit will be in close proximity to the light bulb(s) or other sources of heat, such as above a ceiling hugger fixture, particularly with higher wattage loads. (See "Operating Temperature" on specifications table.)

Wiring Instructions

Three easy steps:

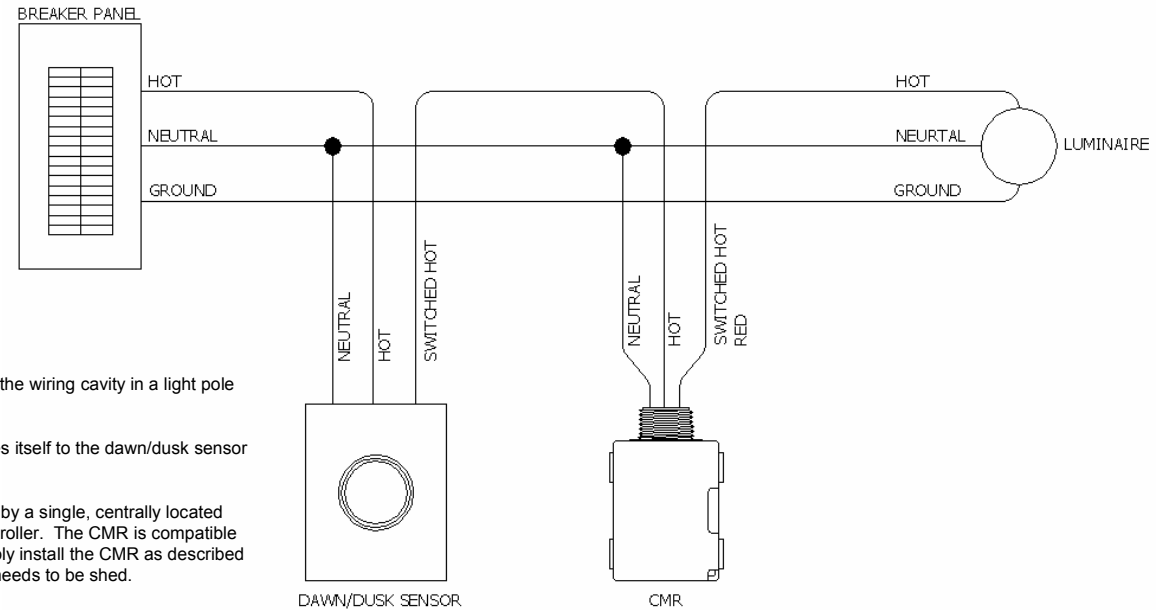
1. Identify fixtures or poles that can be turned off after mid-night and still maintain safety light levels.
2. Install CMRs in each pole or fixture and connect the wires as shown in the figure to the right.
3. Enjoy energy savings

Notes:

The CMR is typically installed in the wiring cavity in a light pole or luminaire.

The CMR automatically calibrates itself to the dawn/dusk sensor and no setup is required.

Many parking lots are controlled by a single, centrally located dawn/dusk sensor or controller. The CMR is compatible with these systems. Simply install the CMR as described above on each load that needs to be shed.



Specifications

	CMR-R12-1000L CMR-R12-1000H	CMR-R24-1000L CMR-R24-1000H	CMR-R27-1000L CMR-R27-1000H
Supply Voltage	120 VAC 50/60 Hz	240 VAC 50/60 Hz	277 VAC 50/60 Hz
Max Load Metal Halide Sodium Vapor Induction Fluorescent LED Other	1000L=300 W 1000H=950 W	1000L=300 W 1000H=1900 W	1000L=300 W 1000H=2200 W
Dimensions	2.11 x 1.73 x 1.09 in (54 x 44 x 28 mm)		
Operating Temperature	+14 to +122 F (-10 to +50 C)		
Storage Temperature	-4 to +176 F (-20 to +80 C)		
Approvals	UL 244A (safety) UL 2043 (plenum) CSA c22.2#14-05 (safety)		