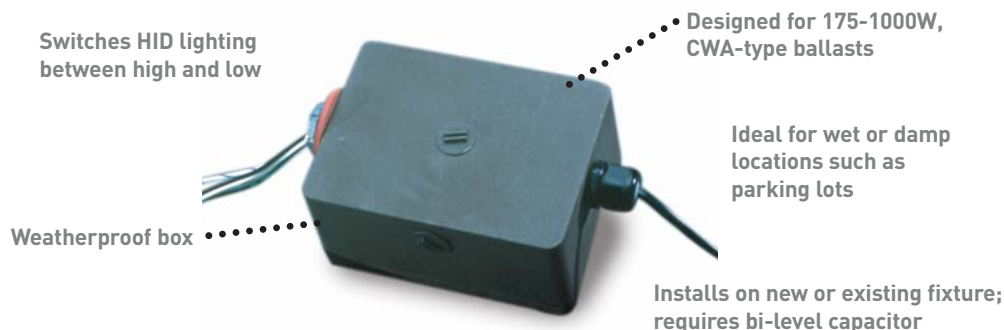




# DM-105-WP Outdoor Bi-level HID Controller



PROJECT

LOCATION/TYPE

## Product Overview

### Description

Watt Stopper/Legrand's DM-105-WP is a control module designed for outdoor use that switches High Intensity Discharge (HID) lighting based on occupancy or other control signals. By providing bi-level (high/low) control, it eliminates the restrike time problem associated with ON/OFF control of HID lighting. The module installs on new or existing fixtures and requires a bi-level capacitor, which is installed inside the fixture.

### Operation

The DM-105-WP works with a 24 VDC controlling device. For example, when used with an EW Outdoor Motion Sensor, the DM-105-WP will switch lights to a lower, energy saving level when the space is unoccupied. When occupants return, lights immediately return from low to high. The DM-105-WP provides 24 VDC to the controlling device. It utilizes a dual capacitor and capacitor switching to achieve the bi-level control.

### Weatherproof Box

The DM-105-WP is housed in a rugged weatherproof box for outdoor mounting applications. The box is able to handle wet and damp locations and fluctuating weather conditions and temperatures.

### Applications

The DM controller can be used in many wet or damp applications such as parking lots, parking garages, tennis courts, swimming pools, and sport parks. Since the DM-105-WP integrates with all standard 24 VDC Watt Stopper occupancy sensors, a broad range of configurations are available to address different lighting control needs.

## Features

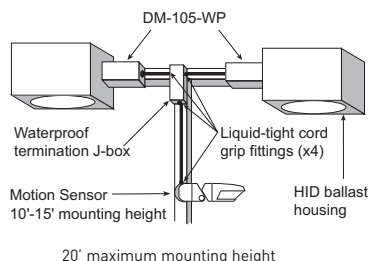
- Installs on new or existing fixtures; requires bi-level capacitor installed inside fixture
- Enclosed in weatherproof box for use in wet and damp applications
- Utilizes zero crossing to protect relay and increase product life
- Maintains full light level for 15 minutes during power up to prevent lamp damage
- Provides instant full light output when DM unit is signalled
- Multiple modules can be linked together and switched from one controlling device
- Easy installation, mounting directly on HID fixture and connecting to capacitor and ballast via four wires

## Specifications

- For use with Metal Halide (MH), Metal Halide Pulse Start (MHPS), and High Pressure Sodium (HPS) lamps
- Operates only with Constant Wattage Autotransformer (CWA) type ballasts (compatible with all CWAs); contact Watt Stopper/Legrand or ballast manufacturer for capacitor values appropriate for ballast
- Dual (bi-level) capacitor can be supplied by Watt Stopper/Legrand or fixture manufacturer
- Maximum load rating of 1000 watts for MH, HPS or MHPS lamps
- Lamp lighting levels can be reduced to 50% of full power
- Includes 10 feet of outdoor rated low voltage wire to connect sensor
- Relay rating is 15A at 250 VAC
- Operating temperature range is -40 to 135°F (-40 to 57°C)
- Maximum current output of 15mA at 24 VDC
- Dimensions: 2.92" x 4.25" x 5.60" (74mm x 108mm x 142mm) H x W x D, < 2 lbs.
- UL and CUL listed (rated 733A as a raintight device); five year warranty

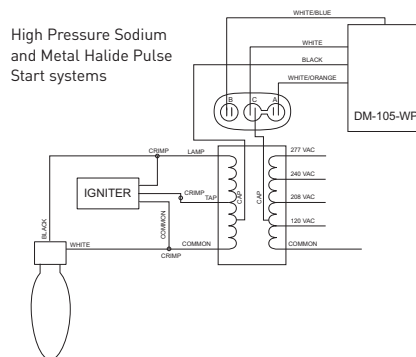
## Wiring & Installation

## Mounting Options

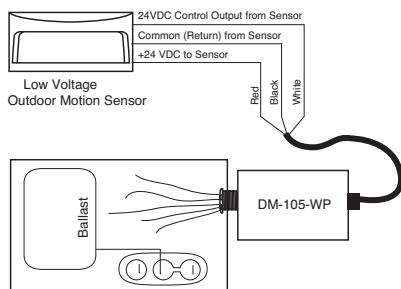


Note: capacitor, junction boxes and extra outdoor rated wire not included

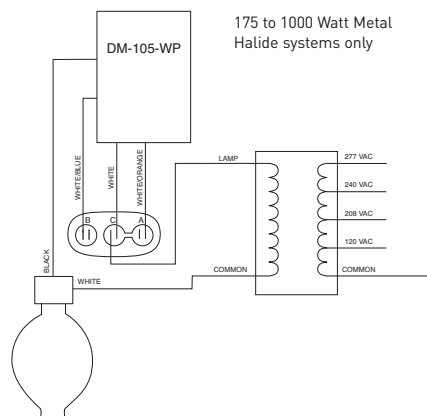
### Typical Wiring w/HPS or MHPS Ballasts



## Wiring with an Outdoor Sensor



### Typical Wiring w/Metal Halide



## Ordering Information

| Catalog No.                          | Description   |
|--------------------------------------|---|
| <input type="checkbox"/> DM-105-WP   | Weatherproof bi-level HID Control Module (does not include capacitor) |
| <input type="checkbox"/> EW-205-24-W | +24 VDC, 270° Outdoor/Indoor PIR Motion Sensor, Arctic white          |
| <input type="checkbox"/> EW-205-24-G | +24 VDC, 270° Outdoor/Indoor PIR Motion Sensor, Architectural grey    |
| <input type="checkbox"/> EW-105-24-W | +24 VDC, 180° Outdoor/Indoor PIR Motion Sensor, Arctic white          |
| <input type="checkbox"/> EW-105-24-G | +24 VDC, 180° Outdoor/Indoor PIR Motion Sensor, Architectural grey    |

Note: for recommendation on capacitor values, see the DM-100 cut sheet or contact technical support at 800-879-8585.