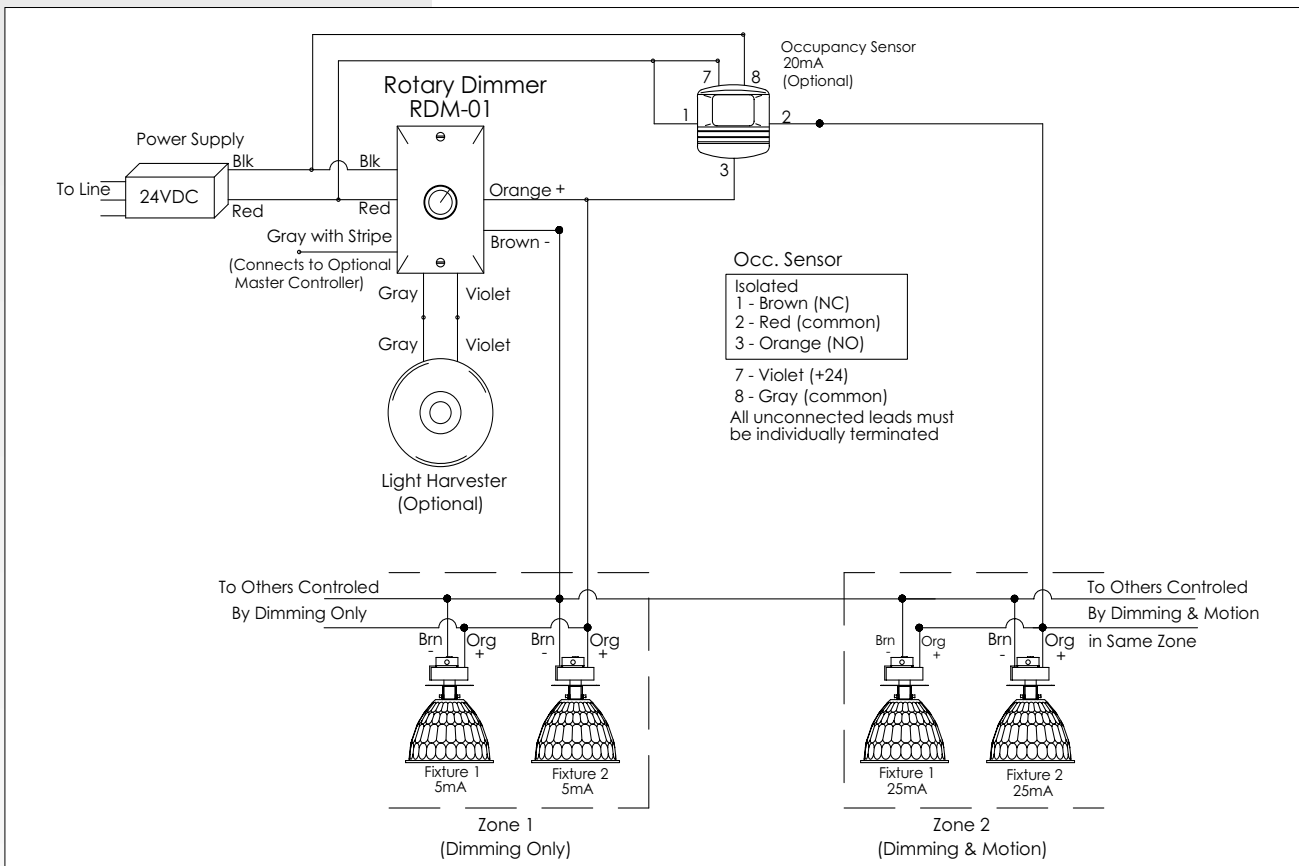




RDM-01 Rotary Dimming Module

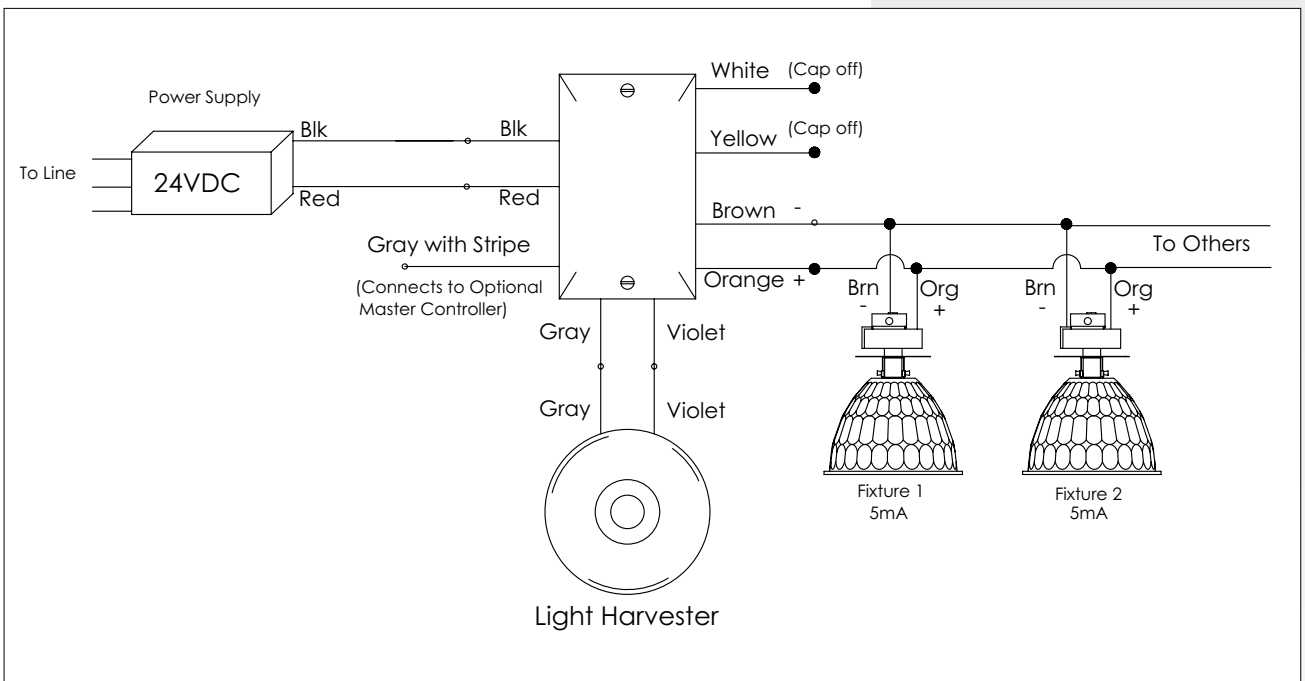
The RDM-01 requires a 24VDC power supply to provide an adjustable 0 to 10VDC dimming signal to the electronic ballast. It is usually mounted on a wall so the user can adjust. Each dimmer can control up to 50 fixtures. To add additional fixtures add an INTM-01 interface module. The Rotary Dimmer Module incorporates an Interface Module. This module is a manual rotary continuous dimming module that operates in a linear fashion in increasing or decreasing light levels from DPS fixtures incorporating its proprietary HID electronic super ballast technology. This rotary dimmer is designed as an easy-to-use lighting controller for use in a wide variety of applications. The module can be used as a surface or wall mount, manual dimming module. It is specifically designed to be unobtrusive when installed in any retail, commercial or industrial environment. Applications include any situation in which lighting levels need to be controlled in a continuously variable range. The RDM-01 *does not provide (on/off) switching*.



Example of typical wiring diagram for Rotary Dimming Module

INTM-01 Interface Module

The INTM-01 can handle a 250mA output and therefore can accommodate a maximum of 50 fixtures (provided the power supply is rated at least 250mA). The dimmer has additional leads for other controls, such as: a master RDM-01, Light Harvester, Computer, etc. The RDM-01 *does not provide (on/off) switching*. It is isolated from the power source. If "on/off" switching is desired, a separate switch needs to be used (not supplied by CEW). The module utilizes an analog output to the ballast to provide a dimming range from as little as 9% to 100% illumination. It is designed to work with any 24V DC, power supply. When maximum dimming is required, a 10-volt output is supplied to the ballast; maximum brightness supplies 0 volts. By having the capability of controlling a large number of fixtures, the interface module is a very simple and economical way to control lighting and reduce energy consumption.



Example of typical wiring diagram for Interface Module



LISTED

- Dual-element, temperature compensated pyroelectric sensor
- ASIC technology reduces components and enhances reliability
- Pulse count processing eliminates false offs without reducing sensitivity
- Detection Signature Analysis eliminates false triggers; provides immunity to RFI and EMI
- CX-100 contains isolated relay with N/O and N/C outputs; rated for 1 amp at 24 VDC
- 19mA
- Swivel mounting bracket for convenient corner mounting to wall or ceiling (standard)
- Digital time delay adjustable from 15 seconds to 30 minutes with $\pm 2\%$ tolerance
- Multi-level Fresnel lens for superior desktop occupancy detection
- Red LED indicates occupancy detection
- 3.3" x 3.3" x 2.1" (83.8mm x 83.8mm x 53.3mm)



LISTED

- Dual-element, temperature compensated pyroelectric sensor
- ASIC technology reduces components and enhances reliability
- Pulse count processing eliminates false offs without reducing sensitivity
- Detection Signature Analysis eliminates false triggers; provides immunity to RFI and EMI
- CI-200 contains isolated relay with N/O and N/C outputs; rated for 1 amp at 24 VDC
- Red LED indicates occupancy detection
- Digital time delay adjustable from 15 seconds to 30 minutes with $\pm 2\%$ tolerance
- 20mA
- 3.3" diameter x 2.2" deep (85mm x 56mm), extends approximately .36" from ceiling

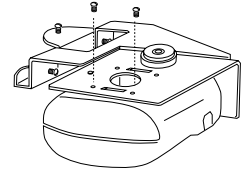
CX-100 Passive Infrared Occupancy Sensor

Operates in conjunction with the **B120E-P/B277E-P**, which provides 24V DC power to the sensor. Standard with dense wide angle lens (**CX-100**), but optional with (**CX-100-4**) a one sided aisleway sensor, a two sided aisleway sensor (**CX-100-3**), or long range one sided aisleway sensor (**CX-100-1**). Mounting hardware available for attaching to fixture reflector/refractor, or building.

Mounting Brackets

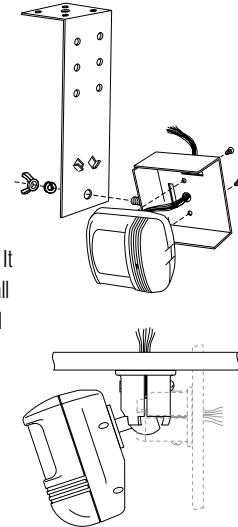
MB2

Direct Mount to Acrylic & Aluminum Optics.



MB1

The MB-1 is used for installing the sensors to ceilings or fixtures in industrial settings such as warehouses.



Swivel Bracket

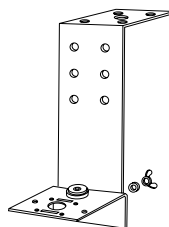
A swivel mounting bracket comes standard with CX-Series Sensors. It is attached to the sensor and allows the sensor to be angled for wall or ceiling mounting. Grooves on the bracket help to achieve desired angle for coverage.

CI-200 Round Motion Sensor

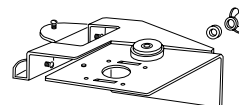
Perfect where 360° coverage is required. This sensor is low profile and is available with mounting brackets for all warehouse applications. It operates with the **B120E-P/B-277E-P** power supply and is typically used in open areas without racking. The low voltage system (24V DC) requires low voltage wiring between the ballast, power supply and the sensor. The sensor features user adjustable time delays which function through highly accurate digital timers built into the sensor. Programming is through DIP switches and can be set from 15 seconds through 30 minutes by 2 minute increments. Sensitivity is also programmed through the DIP switches and has 4 settings from minimum to maximum. Coverage is 1200 sq. ft. for the (**CI-200**), coverage is optimal at 500 sq. ft. using the high density lens for walking motion, (**CI-200-1**). Various mounting options are available.

Mounting Brackets

MB1



MB2



LS-201

Light Harvester

The LightSaver LS-201 is a ceiling mount, low voltage indoor photocell that works with standard, 0-10 VDC electronic dimming ballast to control lighting based on ambient light levels. The LS-201 mounts on a ceiling and utilizes a patent-pending, spectral filtering system to detect the total of daylight and artificial light levels in the controlled space. The LS-201 features a unique Fresnel lens system that allows the sensor to measure light levels uniformly across a 60° field of view. The desired light level is set by adjusting trim pots on the sensor. The sensor offers two rates of change that are adjustable, with an external jumper pin, to fast or slow. In addition, the LS-201 contains an external override for 100% lighting that can be achieved with a switch opening. The LS-201 is used with the RDM-01 or INTM-01.



- Automatic dimming based on ambient light levels
- Controls standard 0-10 VDC electronic dimming ballasts
- Adjustable footcandle settings
- Enables maximum light output to be set for lumen maintenance
- Control range of 15-70 footcandles

B-120E-P/B-277E-P

120V/277V Power Supply

Power supplies provide 24VDC operating voltage to sensors, RDM-01 and INTM-01. The transformer of the power supplies have primary high voltage input and a secondary 24VDC, 150mA output. The secondary voltage provides operating power to sensors and controls. Power supplies are available for 120V/220V to 240V/277V systems. They are housed in an ABS, UL-rated 94V-0 plastic enclosure. The power supplies' 1/2 inch snap-in nipple attaches to standard electrical enclosures through 1/2 inch knockouts. Low voltage leads are teflon coated for use in plenum applications.



- Secondary voltage of 24VDC
- Secondary output of 150mA
- UL-rated 94V-0 plastic enclosure; units are white
- Low voltage leads are rated for 300 volts
- Size: 1.6" x 2.75" x 1.6" (41mm x 70mm x 41mm) with a 1/2 inch snap-in nipple
- Most applications require UL listed, 18-22 AWG, 3-conductor, Class 2 cable for low voltage wiring. For plenum return ceilings use UL listed plenum-approved cables.