

# Bi-Level Dimming

## Maximize Energy Savings with Controlled LED Lighting



The unit has a series of DIP switches that allow simple adjustment in five areas of control: Detection Range, Hold Time, Daylight Sensor, Stand-By Period, and Stand-By Dimming Level.

The unit must be cycled (on/off) one time to initiate the program.

### Settings

#### DETECTION RANGE

The occupancy sensor's detection radius is approximately 19'6", at 30 degrees to 150 degrees from the perpendicular center of the fixture, with a maximum mounting height of 19'6". The sensor can be set to cover approximately 100%, 75%, 50%, or 10% of this area. The microwave based sensor operates at 5.8 GHz (+/- 0.75MHz). Due strictly to their mass, it is not recommended for use in lobbies with elevators. The unit ships with the factory setting at 100%.

	1	2	
I	ON	ON	100%
II	o	ON	75%
III	o	ON	50%
IV	o	o	10%



#### HOLD TIME

When movement is detected, the fixture turns ON to 100% light output. It will remain at full brightness for the set "hold time," which begins when motion is no longer detected and can be as short as 5 seconds and as long as 20 minutes. Once the hold time ends, the light is reduced to the stand-by dimming level (see "Stand-by Dimming Level" below). The unit ships with the factory setting at 90 seconds.

	3	4	5	
I	ON	ON	ON	5s
II	o	ON	ON	30s
III	ON	o	ON	90s
IV	o	o	ON	3min
V	ON	ON	o	20min
VI	o	o	o	+∞



#### STAND-BY PERIOD

Once the hold time has elapsed, the "stand-by period" begins, which is the length of time that the fixture remains in its dimmed state (Stand-by Dimming Level). At the end of the set stand-by period (5 seconds up to 1 hour), the fixture will turn OFF. If you do not want the fixture to turn completely off, use the "+∞" setting, which will keep the fixture in its dimmed state continuously until movement is detected again (useful in 24-hour burn applications). If you wish to bypass the step dim and have the fixture turn completely OFF at the end of hold time, use the setting "0 seconds." The unit ships with the factory setting in the continuous dim position "+∞".

	6	7	8	
I	ON	ON	ON	0s
II	o	ON	ON	5s
III	ON	o	ON	5min
IV	o	o	ON	10min
V	ON	ON	o	30min
VI	o	ON	o	1h
VII	o	o	o	+∞



#### DAYLIGHT (PHOTO) SENSOR

The "daylight sensor" evaluates the amount of surrounding light in range. Measured in Lux, the sensor determines if the surrounding light in the given area meets the field configured minimum light threshold. If movement is detected and the surrounding light is below the set Lux threshold, the fixture will trigger ON and the hold time will begin. If movement is detected and the surrounding light is above the set Lux threshold, the fixture will not trigger on. The daylight sensor can be set as low as 2 Lux and as high as 100 Lux. If disabled, the fixture will trigger ON when movement is detected regardless of the amount of surrounding light. The unit ships with the factory setting at DISABLE.

	1	2	3	4	
I	o	o	ON	ON	2Lux
II	o	o	o	ON	5Lux
III	o	ON	ON	o	10Lux
IV	o	o	ON	o	25Lux
V	o	ON	o	o	50Lux
VI	ON	o	o	o	100Lux
VII	o	o	o	o	Disable



#### STAND-BY DIMMING LEVEL

When the set hold time has elapsed and no further movement is detected in range, the dimming control reduces the light output to the set "stand-by dimming level," which can be configured at 50%, 30%, 20% or 10% light output. The fixture will remain at the reduced level for the length of the stand-by period (see "Stand-by Period"), or until movement is detected, whichever comes first. The unit ships with the factory setting at 50%. \*Dim percentage is an approximation of light output, it does not equate to fixture wattage draw. Contact Brownlee Lighting for wattage calculations.

	5	6	
I	ON	ON	50%
II	o	ON	30%
III	ON	o	20%
IV	o	o	10%

