

Daylight harvesting

This is a feature where the Occupancy sensor will measure the amount of daylight available in the room and intelligently dims or turns-OFF the lights in the room saving energy. There are two different options available here.

1) Conditional Daylight Harvesting

This feature DOES NOT require a dimmable ballast/driver

A. The lights within a room controlled by the sensor will be automatically turned OFF when the daylight meets or exceeds a percentage of minimum installed light level.

i. If the installed light level is 500 Lux the lights will turn OFF when the total light (installed + Daylight) exceed beyond 220% (1100 Lux) provided it meets condition C below.

B. The lights will automatically turn ON when the following condition is met

If daylight's contribution falls below 100% (500 Lux) of the installed light level the lights will be automatically turn on.

C. CFL and FTL have to been ON for a minimum of 15 minutes (this feature is implemented so the lifetimes of the FTL and CFL bulb do not deteriorate). LED bulbs do not need the Minimum on time requirement This is a special mode and the sensor will come with this feature disabled.

i. It is recommended to have this feature enabled if you are using CFL or FTL lights

2) Dynamic Daylight Harvesting

This feature requires that dimmable ballast be installed ON all the light fixtures connected to the Occupancy sensor. The lights will start dimming when the total light (Installed + Daylight) exceed installed light levels. Example: Installed = 500 Lux

A. Installed + Daylight > Installed: the Occupancy sensor will send a signal to the dimmable ballast and reduce the drive of the ballast so that Installed + daylight = Installed (500 Lux). This is a dynamic process and is not noticeable by the people in the room unless there is a sudden dramatic change in the daylight level

B. When the Daylight exceed 500 lux the lights are turned off but the user will not notice the difference as the daylight is sufficiently bright and the installed lights were already very dim (around 20%)

C. When Daylight portion is 0 Lux (nights) then the light within the room is maintained at the installed max level of 500 Lux

This feature is available and can be manually setup to any value between 20 - 2000 Lux

The sensor is able control the Dimmable driver so that the light can be dimmed anywhere between 0% - 100%. Actual percentage reduction in light will solely depend on the capability of the ballast used. We recommend that minimum dimming value of 20% is maintained when used with CFL or FTL lights