

### General

The ladderless daylight sensor provides Title 24 compliant Automatic Daylight Harvesting Controls. By automatically reducing the light level of lighting in the controlled area when daylight alone achieves the design light level. Ladderless monitoring and control is achieved through the use of the setting unit.

*Complies with  
Title 24 Requirements*

### Features

- Controls lighting by detecting brightness of natural light from outdoors. (Detected illuminance guideline: 100 lx to 2000 lx)
- Connects directly to NexLight 2-wire communications bus (no additional power)
- Daylight sensor can be disabled to enable overriding of ON/OFF switching
- Can control loads in two ranges, with different illuminances
- Enables individual, pattern, group control.
- Enables control based on illuminance at desk top surface.
- Swivel detection eye enables local area adjustment for more accurate detection without the need of moving / reinstalling the device.
- Each sensor uses 1 dedicated address channel (ex. 63-1,2,3,4)



### Typical Application Lux Levels

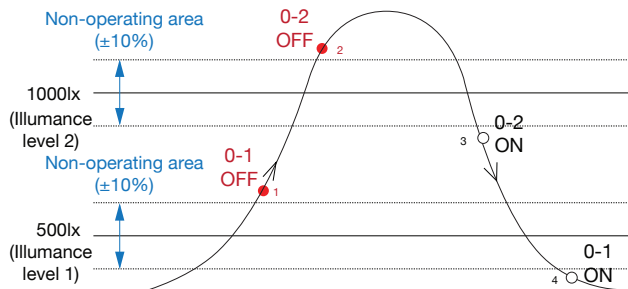
Activity	Illumination on task surface(lux)
Public areas with dark surroundings	20 - 50
Simple orientation for short visits	50 - 100
Working areas where visual tasks are only occasionally performed (storage rooms)	100 - 150
Easy Office Work, Classes	250
Normal Office Work, PC Work, Study Library, Groceries, Show Rooms, Laboratories	500
Supermarkets, Mechanical Workshops, Office Landscapes	750
Normal Drawing Work, Quality control	1,000
Detailed Drawing Work, Very Detailed Mechanical Works (watchmaking)	1500 - 2000
Performance of visual tasks of low contrast and very small size for prolonged periods of time	2000 - 5000
Performance of very prolonged and exacting visual tasks	5000 - 10000
Performance of very special visual tasks of extremely low contrast and small size	10000 - 20000

Controller mounts anywhere on 2-wire bus for convenient monitoring & adjustment

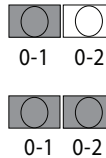
Functions and Features

- The system is capable of performing On/Off or dimming functions according to the room's brightness.
- The sensor unit and setting unit are installed in separate locations.
- Displays the present illuminance.
- Up to six illuminance patterns can be programmed.
- Utilizing step dimming patterns is also possible.
- The user can control sensor Disable/Enable from NexLight 2-wire switches

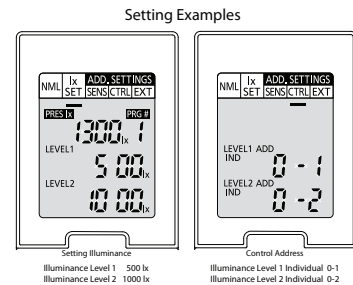
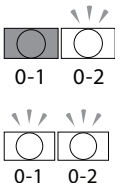
Operation (Individual)



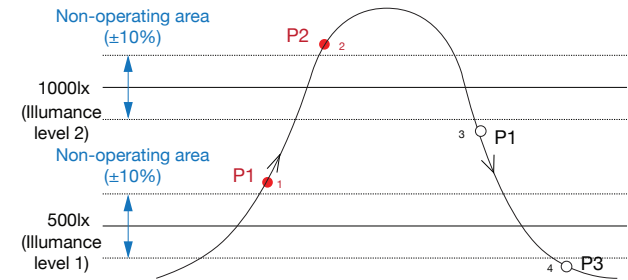
1. Lights turn off 5 min. after detected illuminance goes above 550lx.
2. Light turns off 5 min. after detected illuminance goes above 1100lx.



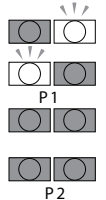
3. Light turns on 5 min. after detected illuminance goes below 900lx.
4. Light turns on 5 min. after detected illuminance goes below 450lx.



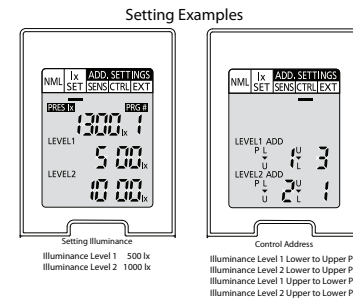
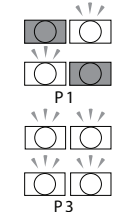
Operation (Patterns)



1. Lights turn off 5 min. after detected illuminance goes above 550lx.
2. Light turns off 5 min. after detected illuminance goes above 1100lx.

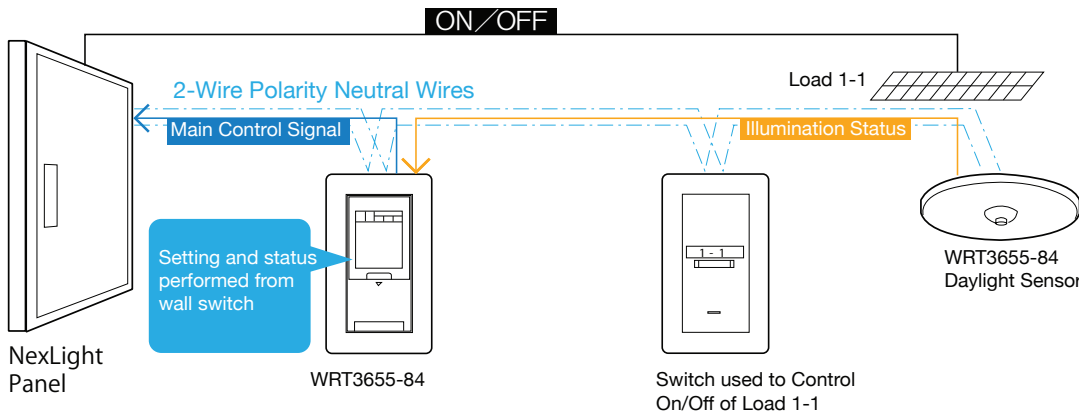


3. Light turns on 5 min. after detected illuminance goes below 900lx.
4. Light turns on 5 min. after detected illuminance goes below 450lx.



Specifications

Applicable Transmission Unit	WRT2040, WRT2050 Series
Detected Illuminance Range	50 lx - 9990 lx (Detected Illuminance Accuracy: ± 30)
Setting Illuminance Level Range	60 lx - 9080 lx
Control / Extended Address Range	Individual 0-1 ~ 63-4, Pattern 1-72, Group 1 - 127

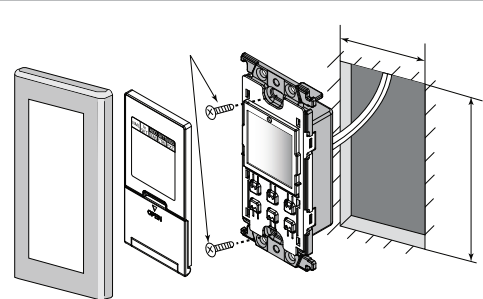
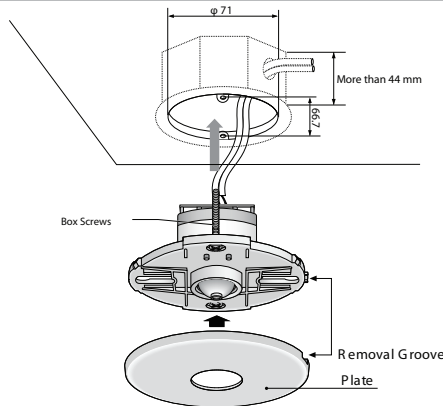
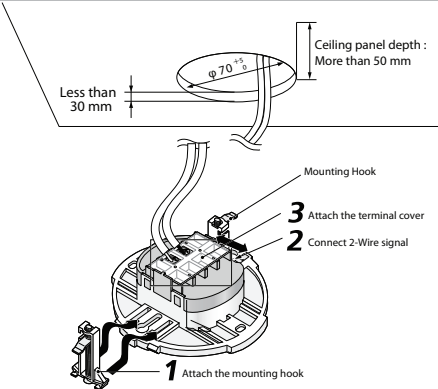


Wiring Diagram

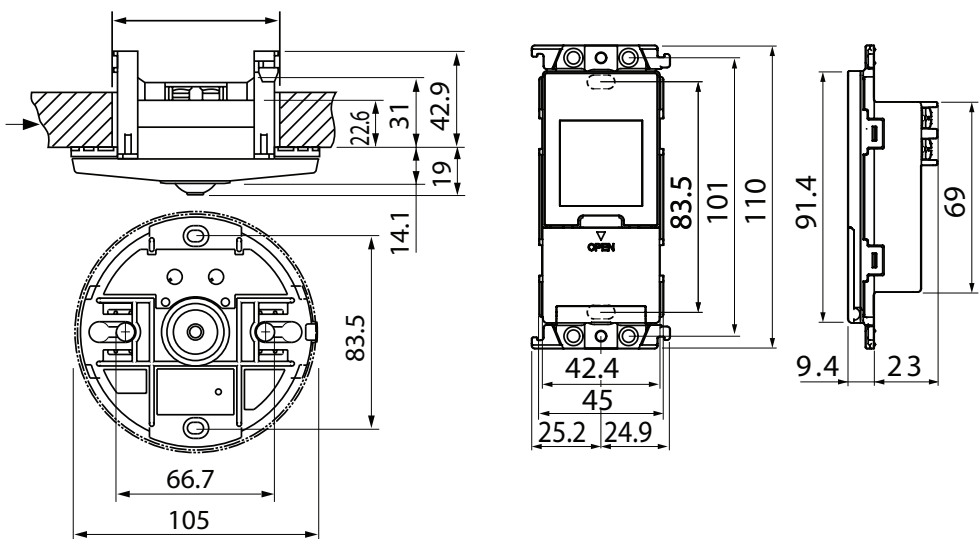
## Drop Ceiling Mounting

## Ceiling Box Mounting

## Switch Device Mounting



Device Mounting



(All dimensions are in mm)

Dimensions