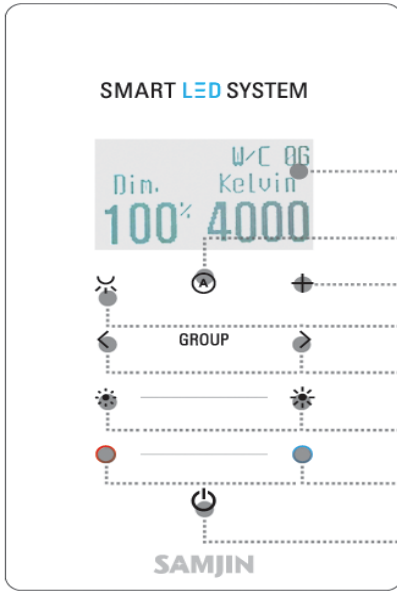


# SMART Luminaire Control Solution / Wall Controller

**1. Wall Controller (WCRF - SKUS)** - Controls sensors, dimming level (0-100%) and correlated color temperature (in 50K increments) of SMART luminaires.



## 1.1 Wall Controller

- LCD Window
- AUTOPILOT mode
- PRESET mode
- SENSOR mode
- ID(Group) No, Up/Down
- Dimming control: manual brightness control
- Color temperature(K) control:  
Bulb color(Warm: 2,700K) ~ Daylight color(Cool: 6,500K)
- Power: On/Off of luminaires

### <LCD Display Info>

Wall Controller ID Info

Luminaire  
brightness  
Info

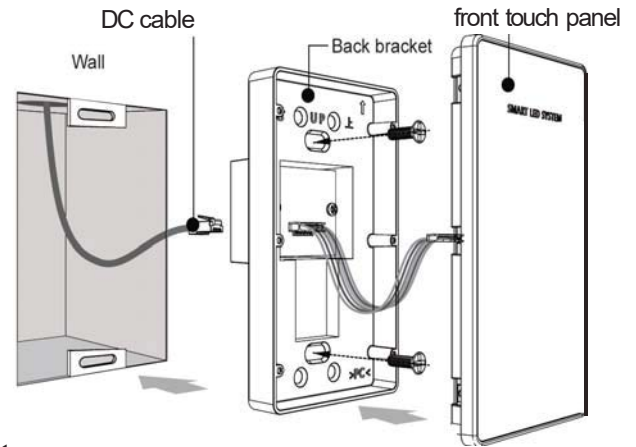


Luminaire CCT  
Info

## 2. Installation of Wall Controller

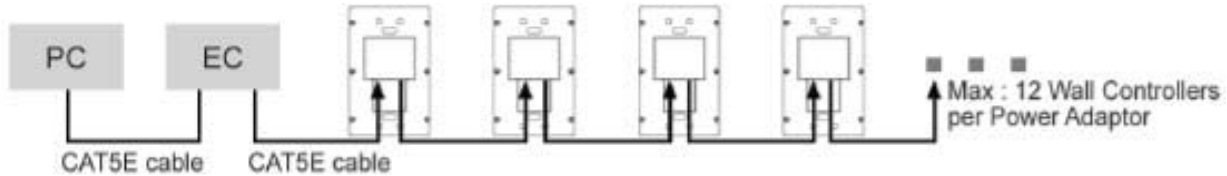
\* Installing the Wall Controller into the standard wall switch box

- I. Connect the CAT5E cable from luminaire, power adaptor, next Wall Controller, or Ethernet Converter to the back bracket.
- II. Secure the back bracket to the wall box using the two supplied screws.
- III. Connect the ribbon cable between the back bracket and the front touch panel.
- IV. Press the front touch panel onto the back bracket.



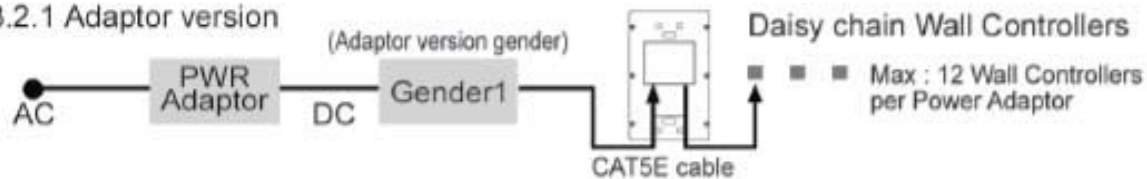
## 3. Connecting the Wall Controllers and Ethernet Converters

### 3.1 Centralized connection - Daisy chain Wall Controllers

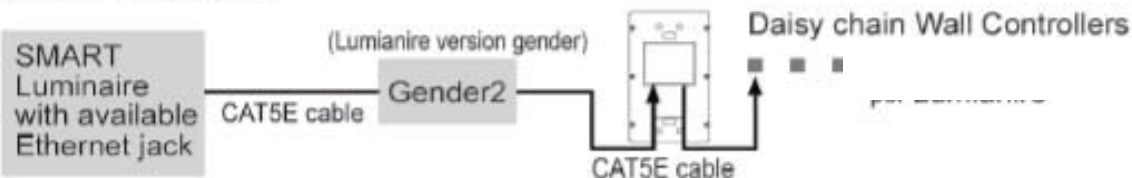


### 3.2 Alternate Method – Without Ethernet Converter

#### 3.2.1 Adaptor version



#### 3.2.2 Luminaire versic



\* A wall controller can feed power to 1daylight sensor only.

ALT: 1

ALT: 2  
Hand  
Held  
Controller

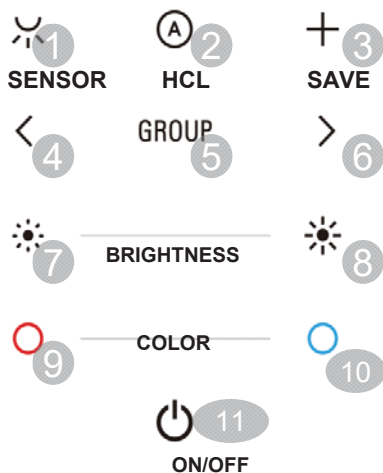
ALT: 3

## 4. Wall Controller Function

※ To use some of the functions below, Sensors (occupancy, daylight) must be installed.

※ If the buttons related with sensors are pressed without installed sensors, “No sensor” is displayed on the screen.

### <Wall Controller>



| No            | Mode                                 | Function                  | Instructions   |  |
|---------------|--------------------------------------|---------------------------|--|--|
| 1             | Sensor                               | Daylight Sensor           | As ambient brightness compared with preset value becomes brighter or darker, the brightness of luminaire is automatically controlled.                                |  |
|               |                                      | Setting                   | Press “1”, then “7” or “8” makes the brightness of luminaires set to the ambient brightness. While set brightness is blinking, pressing “3” completes value setting. |  |
| 1+1           |                                      | Occupancy Sensor          | After preset waiting time without motion detection, luminaires turn off.   |  |
|               |                                      | Setting                   | Press “1”, then “5” or “6” adjusts the delay time to turn-off in 5sec increments.  |  |
| 1+1+1         |                                      | Daylight+Occ              | Daylight sensors and occupancy sensors detect illumination and motion simultaneously   |  |
| 1+1+1+1       |                                      | Main                      | View Setting   | Set brightness, color temperature(Kelvin) and Wall Controller ID are displayed.                      |
| 2             |                                      | HCL                       | HCL  | 24hr circadian cycle (mimic sunrise to sunset cycle).  |
| 2+2           |                                      |                           | HCL + Occupancy  | HCL mode running in conjunction with Occupancy Sensor setting  |
| 2+2+2         |                                      |                           | HCL + Light  | HCL mode running in conjunction with Daylight Sensor setting   |
| 2+2+2+2       |                                      |                           | HCL+Light+Occ  | HCL mode running with both Daylight and Occupancy Sensor settings.                                   |
| 2+2--         | WC clock setting                     |                           | Set Wall Controller's clock (4 & 6 to adjust hour, 7 & 8 to adjust minute)   |  |
| 2+2--+2       | Set HCL CCT                          |                           | Change CCT stored in the HCL mode  |  |
| 2+2--+2--     | Reset to factory default HCL setting |                           | Setting resets to factory default HCL CCT  |  |
| 2+2--+2--+2-- | Memory                               |                           | After adjusting to desired brightness and CCT, press and hold “3” for 3 seconds to memorize the current condition as preset.   |  |
| 3             | Preset                               |                           | Preset   | Press “3” to goto memorized preset CCT and brightness. Factory preset is 5000K CCT, 100% brightness. |
| 3+3           |                                      |                           | Preset Individual  | Toggle through presets (User memory,2700K,3000K,3500K,4000K,5000K,6000K)                             |
| 5             | Group                                | Group Control             | Group selection(1-10) → press “4” and “6” to cycle through each group.   |  |
| 5+5           | LED                                  | Individual Control        | Individual luminaire selection → press “4” and “6” cycle through each luminaire.   |  |
| 5+5+5         | Main                                 | Setting Info Verification | Set brightness, color temperature(Kelvin) and Wall Controller ID is displayed.   |  |
| 4             | “←”                                  | Move                      | Move to the previous No. in Group or Individual luminaire ID Mode.   |  |
| 6             | “→”                                  | Move                      | Move to the next No. in Group or Individual luminaire ID Mode.   |  |
| 7             | Dimming                              | Dim                       | Dimming → dims by 1% → hold for more than 2 seconds to dim fast.   |  |
| 8             |                                      | Brighten                  | Brightening → brightens by 1% → hold for more than 2 seconds to brighten fast.   |  |
| 9             | Color Change (Kelvin)                | Warmer (2700K)            | Warmer Color → decreases by 50K → hold for more than 2 seconds to decrease fast.   |  |
| 10            |                                      | Cooler (6500K)            | Cooler Color → increases by 50K → hold for more than 2 seconds to increase fast.   |  |
| 11            | Power                                | On                        | Luminaires are turned on with the preset brightness and color.   |  |
| 11+11         |                                      | Off                       | Luminaires are turned off, the green lamp of power button is turned on   |  |