

# WDM (Wireless Dimming Module)

## Product Overview

This is the LED Lamp Type for Energy-Saving Product based on the Wireless Sensor and it uses the Intelligent Sensor for LED LAMP (Wireless Communication and Body Detecting) to design for controlling the Dimming ON/OFF by individual or group by body detecting sensor at necessary place and time automatically.

This is the product that energy-saving for significantly by checking the Body detection for presence or absence through the intelligent sensor and then try to maintain the minimum photo value or ON/OFF of Lamp.

Install the Wireless Dimming Module at LED Lamp to save the construction cost for piping and wiring compare to Wired System Method.



## APPLICATIONS

- WDM is internal with IEEE 802.15.4 ZIGBEE communication chip type and it is available with the occupancy detecting sensor and body detecting sensor function at both.
- The WDM is designed to installed at surface of LED Lamp or inside of LED lamp.
- If customer wants to install the Wireless Dimming Module at Building Retrofit Site with only LED Lampe are installed, it can be installed at raceway without installing the piping and cabling.
- Use the Output Power of LED Ballast to connect at Input Power of WDM.
- Due to Wireless Communication, the installation is easy and it is compatible with LED Lamp.
- The each of WDM is available to set the Address to able the interlocking control for individual or group..
- The Body Detecting Sensor and Photo Sensor is able to choose the ENABLE Selection.
- The LED FLASH ON/OFF function to check the Lamp Circuit Line.
- It is able to set the maximum and minimum range of Dimming.

## Major Feature

- Direct LED Level Control (0-254STEP Dimming)
- Set the maximum and minimum for Dimming range.
- Fading Rate and Fading Time Setting.
- It is available to select the Enable function for Body Detecting Sensor and Photo Sensor.
- Set the Interval Time for Body Detecting Sensor and Photo Sensor Interval Time.
- When the Operation of Sensor is OFF, it has function for OFF selection function or Minimum Dimming selection.
- The Address of each Wireless Module is in the order of Gateway-Access Group-WDM.
- Set the Wireless Module that is available for interlocking with each of Wireless Module Sensor.
- Self-Diagnosis Function : Communication Error and Dimming Output Error.
- It has Information Status itself.

## Control Function

- ON / OFF Function.
- Up. (to Max.)
- Down. (to Min.)
- Step Up. (No Fading)
- Step Down. (No Fading)
- Max. Level.
- Min. Level.
- Step Down and Off. ( to Off)
- On and Step Up.
- AG and Short Address Setting.
- Lighting Control Parameter Setting and Upload.
- Status and Level value Upload.
- Control by Body Detecting Sensor.
- Control by Photo Sensor.

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## SPECIFICATIONS

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### 1. HARDWARE Function and Structure

- MCU : 32bit Arm Processor(coreTex –M3) Type
- Internal with Body Detecting Sensor
- Internal with Photo Sensor

### 2. Power Supply

- Input Power : DC 10~60V
- Output current : max. 3A
- Output Power : max. 180W @60V

### 3. Setting

- Address Setting : 0~64

### 4. Operating Condition

- Operation Condition : 0 ~ 60 °C 0~90 RH

### 5. Communication Method

- Communication Regulation : IEEE 802.15.4 ZIGBEE Communication

## DIMENSION

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## CONNECTION DIAGRAM

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