easyCtrl®

YC-SL.01A
Outdoor Illumination Sensor Module

Product Manual
Release : September 7, 2020
Version : V1.0

Figure1. Outdoor Illumination Sensor Module
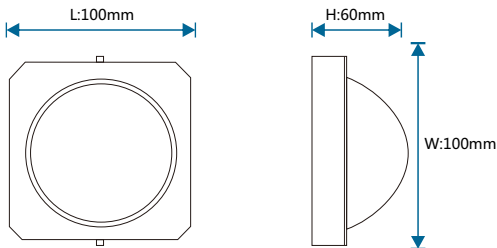
L:100mm   H:60mm

W:100mm

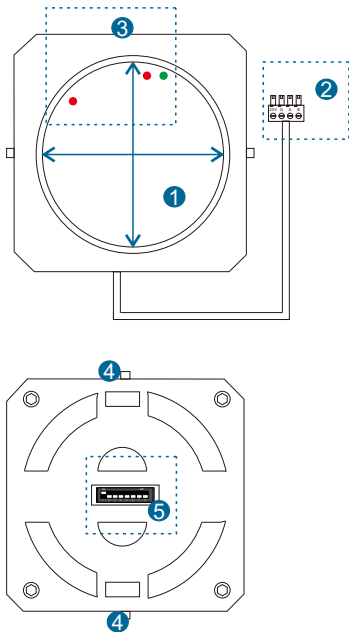Figure 2. Dimensional Drawing - Front View   Figure 3. Dimensional Drawing -Sideview

Figure 4. Product Information

Address Configuration
Values range from 01-63, with the
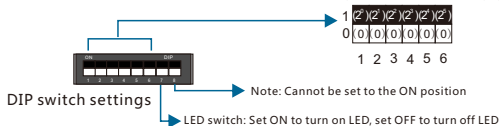algorithm shown in the following figure

DIP switch settings

Note: Cannot be set to the ON position

LED switch: Set ON to turn on LED, set OFF to turn off LED

Figure 5. Address DIP Switch Table 1

Product Overview

Outdoor Illumination Sensor Module (see Figure 1), serves as a system light sensing control unit, typically installed in the outdoor wall, ceiling type or side type installation.Through five sections of illumination value, to achieve different control requirements for each section, such as when the corridor illumination brightness is high - greater than 200lux, medium bright -150lux, low bright -100lux, slightly bright -50lux, Dark -0lux, corresponding to the light brightness 0%, 20%, 30%, 60%, 80% , adapt to the illumination needs of the corridor.

Function Description

- Adopt ceiling installation, suitable for outdoor.
- Built-in illumination probe, accuracy range 0-65535, can be divided into 5 levels.
- Illumination classification acquisition, according to different brightness levels to trigger the scene mode.
- Illumination with LED display, can be closed and open, adapt to different scenes.
- Built-in temperature probe, accuracy range -55℃~125℃, can be divided into 2 levels.
- Temperature classification acquisition, according to the temperature level to trigger the scene mode.
- Supports online firmware updates and Bus network disconnection alarm function.
- Supports YC-BUS communication.

Precautions

- Please install and use the sensor correctly according to the instructions. Do not touch the surface of the sensor to avoid affecting the sensitivity of the detector. If you need to clean the sensor, disconnect the power supply and wipe it with a soft cloth with a little alcohol.
- This product can reduce the occurrence of accidents, but it is not guaranteed to be foolproof. For your safety, in addition to the correct use of this product, in daily life to be vigilant, strengthen the awareness of safety prevention.
- In order to ensure that the detector can work normally, the detector power supply should be maintained, and the walking test must be carried out periodically, it is recommended that once a week.

Product Information

Product Dimensions: See Figures 2 and 3
Product Wiring: See Figure 7
Product Information: See Figure 4
1. Illumination sensing area
2. Bus Interface: 24V, G, A, B.
3. LED Indicators:
- LED red: Power value indicator
- LED green: Bus signal indicator , steady on indicates normal network connection, slow blinking indicates abnormal network connection.
- LED red: Illuminance value area range display, 5 levels points to different areas.
4. Installation port: disassembly port, remove the two screws during installation.
5. Dial (see Figure 5) :
- Setting Address: (see Figures 2 and 3)
- The 7-bit address of the dial (see Figure 5) : When the 7-bit address is set ON, the LED indicator light is turned on (the factory default is turned on); when the address is set OFF, the LED indicator light is turned off.
- 8-bit address of dial (see Figure 5) : cannot be set to the ON position, otherwise the device cannot be used.

Product Installation

- Step 1. Open the back cover of the detector.
- Step 2. Punch out line holes in the back cover line grooves.
- Step 3. Select the appropriate height to install the detector bracket.
- Step 4. Connect the wiring terminals.
- Step 5. Install the back cover of the detector.
- Step 6. Align the detector with the fixture and install it on the fixture.

Safety Warning ⚠ WARNING

- Tightening torque should not exceed 0.4 Nm.
- Installation position: Ceiling
- Ensure a good ventilation environment.
- Do not expose to rain, contact with other liquids, or corrosive gases.

Packing List

- YC-SL.01A*1/Bus converter*1/User Manual*1/Certificate of Conformity*1

Figure 6. Address Dip Switch Table 2
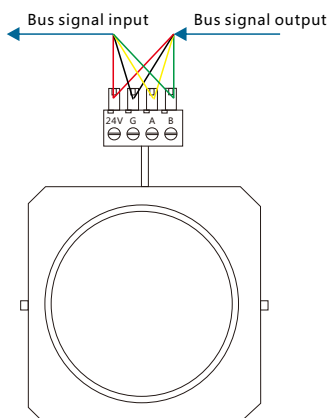
Figure 7. Product Wiring Diagram

Technical Parameters

Basic Parameters

Operating Voltage	24VDC±10%
Rated Consumption	≤1W
Illumination Accuracy	0-65535Lux
Illuminance Measurement	5 level
Temperature Accuracy	-55℃~125℃
Temperature Measurement	2 level
Indicator Light	LED*7
Bus Interface	bus interface*1

External Environment

Operating Temperature	-5˚C~45˚C
Operating Relative Humidity	≤90%
Storage Temperature	-20˚C~60˚C
Storage Relative Humidity	≤93%

Product Specifications

Dimensions (L*W*H)	100 mm*100 mm*60 mm
Net Weight	≤360 g/pcs
Enclosure Material	aluminum shell
Installation Method	ceiling mounting
Protection Level	NONE

System Diagram
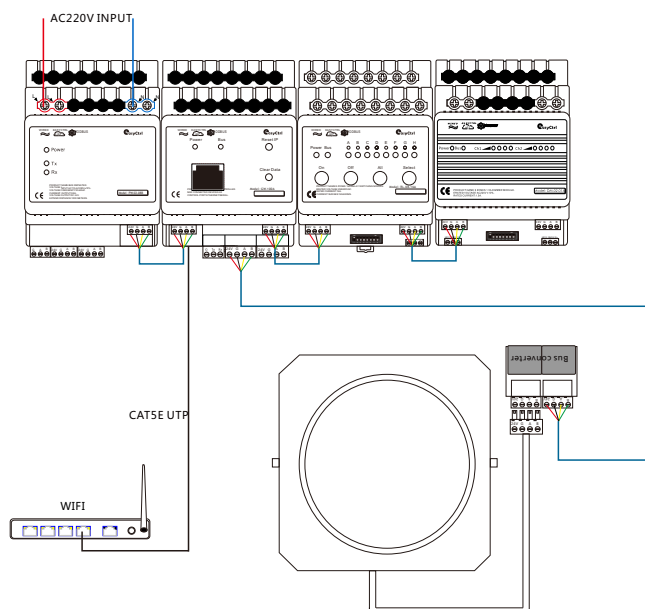
Bus Specification

Bus interface	4-core wire : RVV4*0.75	UTP : CAT5/CAT5E
24V	RED	BROWN WHITE/BROWN
GND	BLACK	BLUE WHITE/BLUE
A	YELLOW	ORANGE WHITE/GREEN WHITE
B	GREEN	ORANGE/GREEN