Motion Sensor

(LORA Channel)



User Manual VERSION: CHDLS-100

CHENG HONG E-TECH. CO., LTD

I: Equipment Introduction

The Motion Sensor aims at the using environment of street lighting, tunnels and factories etc., through the moving detection of vehicles, people or objects, the lighting fixtures are automatically controlled according to programming to realize intelligent lighting control.

Traditional street lighting, tunnels, factories lighting fixtures are mostly controlled by personnel inspection or regular control, which initially meets the needs of the scene, but still cannot achieve the effect of intelligent control. For example: Turn on or dimming to brighter when people is coming, and turn lights off when people go away; No matter which direction the person enters from, the lamps in the area will automatically light up or increase according to the setting; this equipment cooperates with the intelligent lamps to solve these problems perfectly.

It adopts the most advanced and popular LoRa wireless communication technology, the communication distance can reach 3 kilometers without repeater, and the actual measurement reach 1 kilometers, and the communication distance is adjustable.

Item		Rating
Working Voltage		AC 220V±20%
Working Frequency		50Hz
Static Power		< 2W
Insulation	L/N-PE	1.75KV
	L/N-DIM	3.5KV
Power Surge(L-N L-PE N-PE)		± 4KV
Static Electricity		± 8KV
Working Temperature		- 25℃~+60℃
Maximum Operating Temperature		- 40℃~ +70℃
Storage and Transport Tempt.		- 45℃~+70℃
Storage & working humidity range		≤ 85%

II: Electrical Specification

III: Key Features

1. Human body and object movement sensing function

The device has a built-in microwave induction module, which can monitor the movement of the human body and objects; the monitoring distance is 0 ~10m.

2. Lamp control function

When it is detected that a person or object is moving, the device sends a dimming command through the LoRa wireless module to control the dimming output of the dual-mode light controller to achieve the effect of lighting when people come; Mobile recovery automatic time is adjustable.

The default dimming value of the dimming command issued by the device is 100%, and this value is adjustable.

3. Specify the control area function

The device can designate specific lighting areas to be controlled.

4. LoRa wireless communication function

Through the LoRa wireless communication channel, data exchange and control command issuance between the device and the computer are realized, so that the device can control the lighting fixtures.

The communication frequency can be adjusted arbitrarily according to the situation on site.

The communication transmission power can be adjusted arbitrarily according to the situation on site.

IV: Wiring Diagram



Brown: - L ; Blue - N ; Y/G : - GND

V: Dimensions & Installation

1. Dimensions: 70 x 70 x162mm





2. Multi-function mounting plate fixed

Multifunctional mounting plate and matching steel cable ties (maximum diameter ø200mm)

