PLCBUS IR Motion Sensor

Indicator
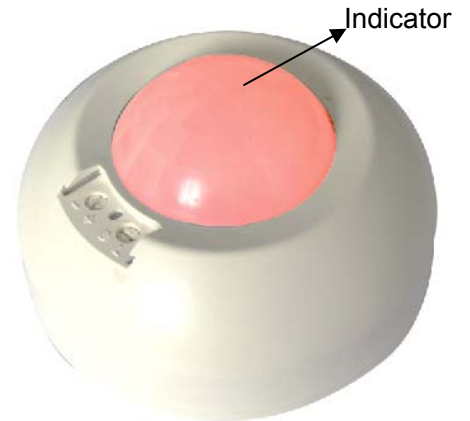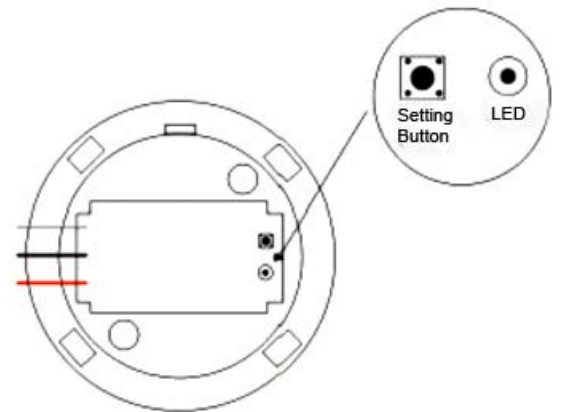
1－Main Features：

PLCBUSII-T4220 This product uses pyroelectric infrared sensor to detect IR of human body moving, and then send out a PLCBUS commands. also have one load appliance can be connect to the device. As long as the human body in its cross-section through the detection range, red indicator light flashes and turn on the lights and send PLCBUS ON command , after delay a specific time , it will turn off the lights and send PLCBUS OFF command. During lights on, if detect body moving, will accumulate delay time..

2－PLCBUS Scene Setup：

PLCBUSII-T 4220 Scene emitter can control 16 addresses at the same time.

2.1- Press and hold "Setting" button for 5 seconds and the indicator flickers;
    Use any PLCBUS controller to send the address;

2.2- Total 16 addresses entered, exiting automatically;

2.3- Tap "Setting" button once for exiting by force;

2.4- Press "Setting" button for 5 times continuously, and the last time holding the button for 5 seconds, and the Beep long once for "1-phase"; Beep short 3 times for "3-phase", the default setting is 1-phase.

2.5- Press and hold "Setting" button for 15 seconds, it turns to default setting.

2.6- Screw it to the base after setting.
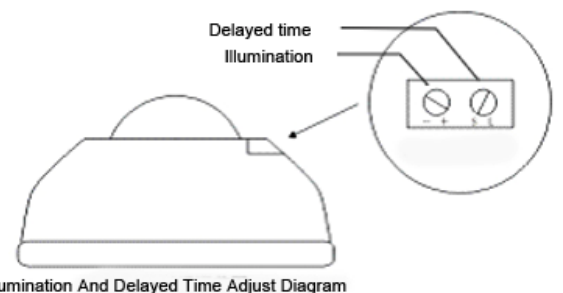
Setting Button   LED

3－IR setup

This product can set 3 settings: on the left of the panel, (+、-）is Preset Illumination level adjust knob;   On the right of the panel,(S、L) is delayed time adjust knob; At the bottom is the delayed channel switches（CH1、CH2）。

Delayed channel switch：

Choose CH1, could through set delayed time adjust knob pointing left, middle and right to choose the delayed time as 1， 3 and 5 minutes.

Choose CH2, could through set delayed time adjust knob pointing left, middle and right to choose 10min, 20min and intelligent delay(20,10 or 5min).

Intelligent time delay perceived by the micro-controller integrated frequency, the duration of lighting and lighting times conditions to determine a specific delay time.

Delayed time   Illumination

Illumination And Delayed Time Adjust Diagram

Delayed time adjust knob：(Unit：Min)

Channel \ Knob	Left	Middle	Right
CH1	1	3	5
CH2	10	20	Intelligent（20，10 or 5）

Preset Illumination level knob：

Left (- sign)	←---→	Middle	←---→	Right (+ sign)
Dark	⇔	Gloom	⇔	Bright

Preset Illumination Level：

   When power on, there is 30s for testing of lighting. During this time, indicator is flickering with 2Hz frequency. If all connection, supply power and load are right, than load on。 30s later, this product gets into normal working status.

   If installation environment 's Illumination level is lower than preset Illumination level , then device will enter "Active Mode"
   If installation environment 's Illumination level is higher than preset Illumination level , then device will enter "Inactive Mode"

Hints : If you want the device always in "Active Mode" , please adjust "Preset Illumination level knob" to Right (+ sign)

"Inactive Mode" working status：

Detect	Local Connected Appliance	Indicator LED	PLCBUS Command
No Motion Detected	Off	Off	No command will send
Motion Detected	Off	Flicker	No command will send

"Active Mode" working status：

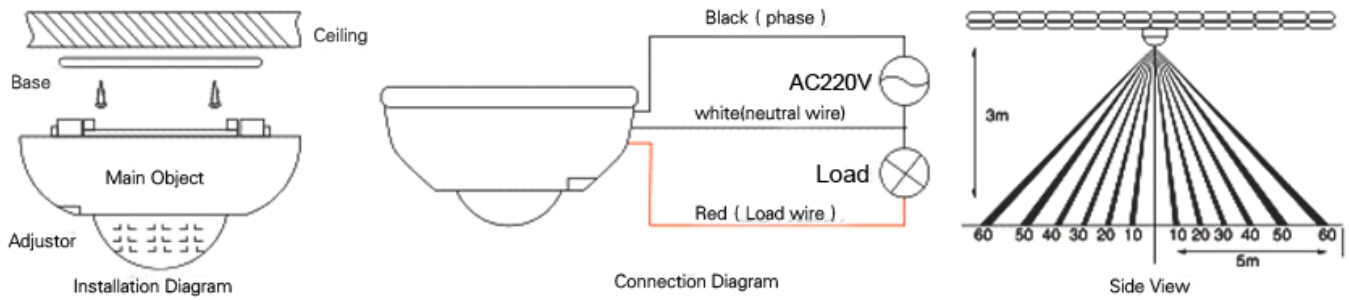| Detect	Local Connected Appliance	Indicator LED	PLCBUS Command
No Motion Detected	Off	Off	No command will send
Motion Detected	On	Flicker	Send ON command
Within "Delayed time", No Motion Detected	On	On	No command will send
Within "Delayed time" , Motion Detected	On	Flicker	No command will send
After "Delayed time"	Off	Off	Send OFF command

Duration of lighting limited：

   The duration of lighting limited is 6 hours, when it is over 6 hours, loads will be turned off constrainedly, later work as follow:

	Condition	Lamp	Limited Time
Night Working Status	Nobody detected	Off	—
	Body detected	On	1H
Daytime Working Status	Daytime	Off	—
	Last less than 1H, get into Night working status	–	1H
	Last more than 1H, get into Night working status	–	6H

4－Notice：

   Base screwed to the appropriate location on the ceiling;

   Connect power line and load as drawing;

   Clockwise rotate the main object to fix it to the base.

Installation Diagram   Connection Diagram   Side View

Notice：This device can connect to one load appliance. And it will also work fine without connect to any loading.

5－Technical Parameters：

Rated Voltage： 220V±10％/50Hz

Rated Dissipation： <1W

Load：300W (resistive load); 100W (inductive load)

Working Temperature：-10℃ ～ +40℃

Working Humidity：≤85%

Detection Zone：120(Side view) x 360(Top view)

Delayed Channel：CH1、CH2

Delayed Time：1、3、5、10、20（min）and another six intelligent levels.

Active Illumination：10Lx ～ 500Lx

Mounting Height：1.8m ～ 3m

Dimension：110mm x 47mm

Factory Setting： Active illumination in the middle and the delayed time is 1 min.

6－Notice:

• Avoid installation in the area that direct under sunshine, air and temperature changes significantly. Such as outdoor or beside AC, heating fan. Avoid production which is a strong reflection of the object. Such as glass surfaces, smooth metal surface.

• In the monitoring area should not be blocking things.

• Do not use sharp hard objects or coarse pollutants grazing lens.

• Prevent the water spray.

• Power must be cut when installation.