LUMEX®

1-10V Dimmable Detector
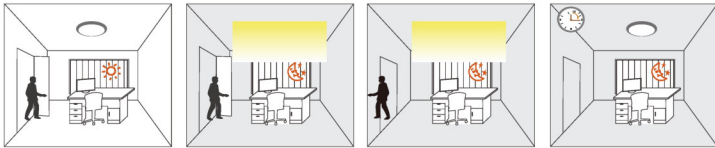Detached Version

SPECIFICATIONS

PRODUCT FEATURES

Product Features

Step-Dim Function
The motion detector can turn on the light based on movement. With this detector built in, light is automatically on when needed and dimmed to preset level before it is totally off.

The light keeps off during daytime even when movement is detected. (Ambient lux level is above preset daylight threshold.)

With movement and insufficient ambient lux level, the light is triggered on by dimming the detector.

If there is no more movement, the light dims to stand-by dimming level after hold-time.

The light turns off automatically after stand-by time.
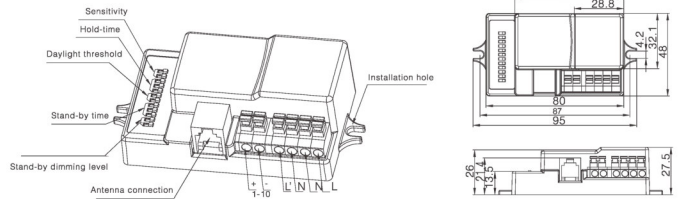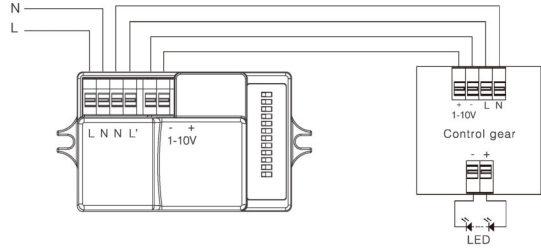

LUMEX®

Product Features

1. Wire loop-in and loop-out

The detector is thoughtfully designed with fast connects for power in and power out to load. Easy to assemble.

2. Zero-cross relay operation

To protect the relay against the inrush current, control software switches AC load right at the zero-cross points when minimal current flows across the relay.

Wiring

LUMEX®

Remote Controller

ON/OFF — Permanent ON/OFF function

Press the "ON/OFF" button, the light goes to permanent on or permanent off mode. * Press "Auto Mode", "RESET" or "Scene mode" buttons to quit from this mode.

Auto Mode — Sensor mode

Press "Auto Mode" button, the sensor starts to work and all settings remain the same as the last status before the light was switched on/off.

RESET — Reset function

Press "RESET" button, all settings go back to the value of DIP switch settings.

Dim +/-

Long press "Dim +" or "Dim - " to adjust the light brightness during hold-time. " + " means dimming up, " - " means dimming down.

TEST 2S — Test mode

The button "Test 2s" is for testing purpose only. The sensor goes to test mode (hold-time is 2s) automatically after commissoining, meanwhile the stand-by period and daylight sensor are disabled. * This mode can be ended by pressing "reset", or any button of "scene mode" and "hold time". The sensor setting is changed accordingly.

Power output

Press these buttons to select full output level. 80% button allows for energy saving and reverse dimming to compensate for LED lumen depreciation over time. Supports fluorescent 10,000 hr initial burn-in.

Lux Disable

Press this button to disable the daylight sensor for threshold control. When motion is detected, the fixture will always turn ON, regardless of ambient light level.

M/A — Manual override / absence detection

Note: this button is disabled.

LUMEX®

Scene mode

There are four scene modes fixed programs built-into the remote control. Select as appropriate. Each scene can be modified using the remote. The sensor will remember updates even after power outage. The green "RESET" button on remote reverts to original defaults.

Scene options	Detection range	Hold-time	Stand-by period	Stand-by dimming level	Daylight sensor
SC1	100%	1min	10min	10%	2Lux
SC2	100%	5min	10min	10%	2Lux
SC3	100%	10min	30min	10%	10Lux
SC4	100%	10min	+∞	10%	50Lux

Note: End-user can adjust the settings by pressing buttons of detection range / hold-time / stand-by period / stand-by dimming level / daylight sensor. The lastest setting stays in validity.

Detection range

Select as appropriate to adjust/reduce sensor sensitivity, detection range from 100%. Please refer to detection pattern.

Hold time

Hold-time refers to the time period that the light remains 100% on if no more movement is detected.

Daylight sensor

Select daylight sensor threshold level at MIN 2 LUX or MIN 20LUX. Ambient light must below this MIN LUX threshold for sensor to turn fixture ON. Press Blue button to sample ambient light. Press Lux Disable button for fixture to always turn On when motion is detected.
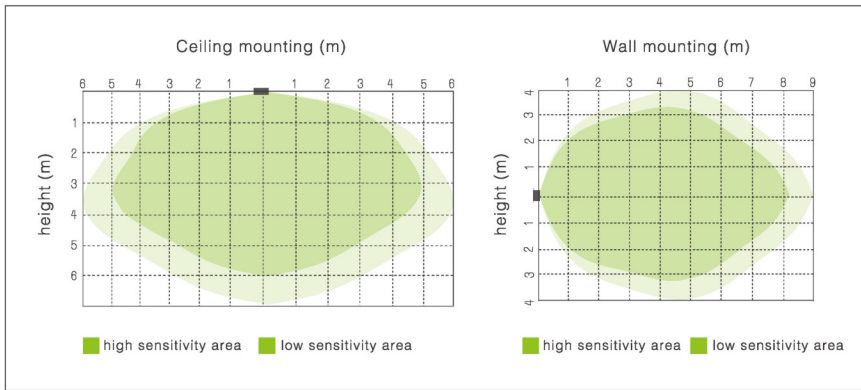
Stand-by period (tri-level control)

Press the buttons of "stand-by period" to set stand-by period at 0s / 10s / 1min / 10min / 30min / +∞.
Note: "0s" means on/off control; "+∞" means bi-level control, light never switches off .

Stand-by dimming level

Press the buttons of "stand-by dimming level" to set the stand-by dimming level at 10% / 20% / 30% / 50%.
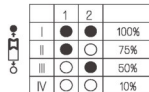

Detection Pattern

Ceiling mounting (m)

height (m)

■ high sensitivity area ■ low sensitivity area

Wall mounting (m)

height (m)

■ high sensitivity area ■ low sensitivity area

Settings

1. Sensitivity

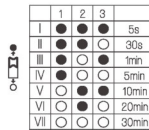Sensitivity can be adjusted by selecting the combination on the DIP switches for different applications.

I – 100%
II – 75%
III – 50%
IV – 10%

	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	10%

2. Hold-time

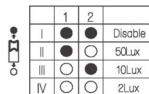Hold-time refers to the time period that the light remains 100% on if no more movement is detected.

I – 5s
II – 30s
III – 1min
IV – 5min
V – 10min
VI – 20min
VII – 30min

	1	2	3	
I	●	●	●	5s
II	●	●	○	30s
III	●	○	●	1min
IV	●	○	○	5min
V	○	●	●	10min
VI	○	●	○	20min
VII	○	○	○	30min

3. Daylight threshold

Different daylight threshold can be preset on DIP switches. Light will always turn on upon movement if daylight sensor is disabled.
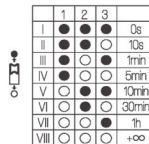
I – Disable
II – 50Lux
III – 10Lux
IV – 2Lux

	1	2	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2Lux

4. Stand-by time

This is the time period that the light remains at a low level before it is completely turned off.

I – 0s
II – 10s
III – 1min
IV – 5min
V – 10min
VI – 30min
VII – 1h
VIII – + ∞

	1	2	3	
I	●	●	●	0s
II	●	●	○	10s
III	●	○	●	1min
IV	●	○	○	5min
V	○	●	●	10min
VI	○	●	○	30min
VII	○	○	●	1h
VIII	○	○	○	+∞

5. Stand-by dimming level

Light can be dimmed to different levels after hold-time.

I – 10%
II – 20%
III – 30%
IV – 50%

	1	2	
I	●	●	10%
II	●	○	20%
III	○	●	30%
IV	○	○	50%

Specifications

Key Family Details	
Operating voltage	120 ~ 277VAC 50/60Hz
Rated load	400W @ 120VAC, 800W @ 240VAC, 1000W @ 277VAC (capacitive load)
Stand-by power	<1W
Sensitivity	10% / 50% / 75% / 100%
Hold-time	5s / 30S / 1min / 5min / 10min / 20min / 30min
Stand-by time	0s / 10s / 1min / 5min / 10min / 30min / 1h / +∞
Stand-by dim level	10% / 20% / 30% / 50%
Daylight sensor	2 ~ 50lux, disable
Microwave frequency	5.8 GHz +/- 75MHz
Transmitting power	<0.2mW
Detection range	Max. installation height: 6m Max. detection range: Ø 12m @ 3m installation height
Detection angle	30° ~ 150° 30° ~ 150°
Working temperature	-20°C ~ +60°C
IP rating	IP20
Certificate	UL ETL FCC