

# Wireless Multi-function Sensor (Microwave + Infra-red + Daylight harvest)

MA-SMO-WRP-ZB

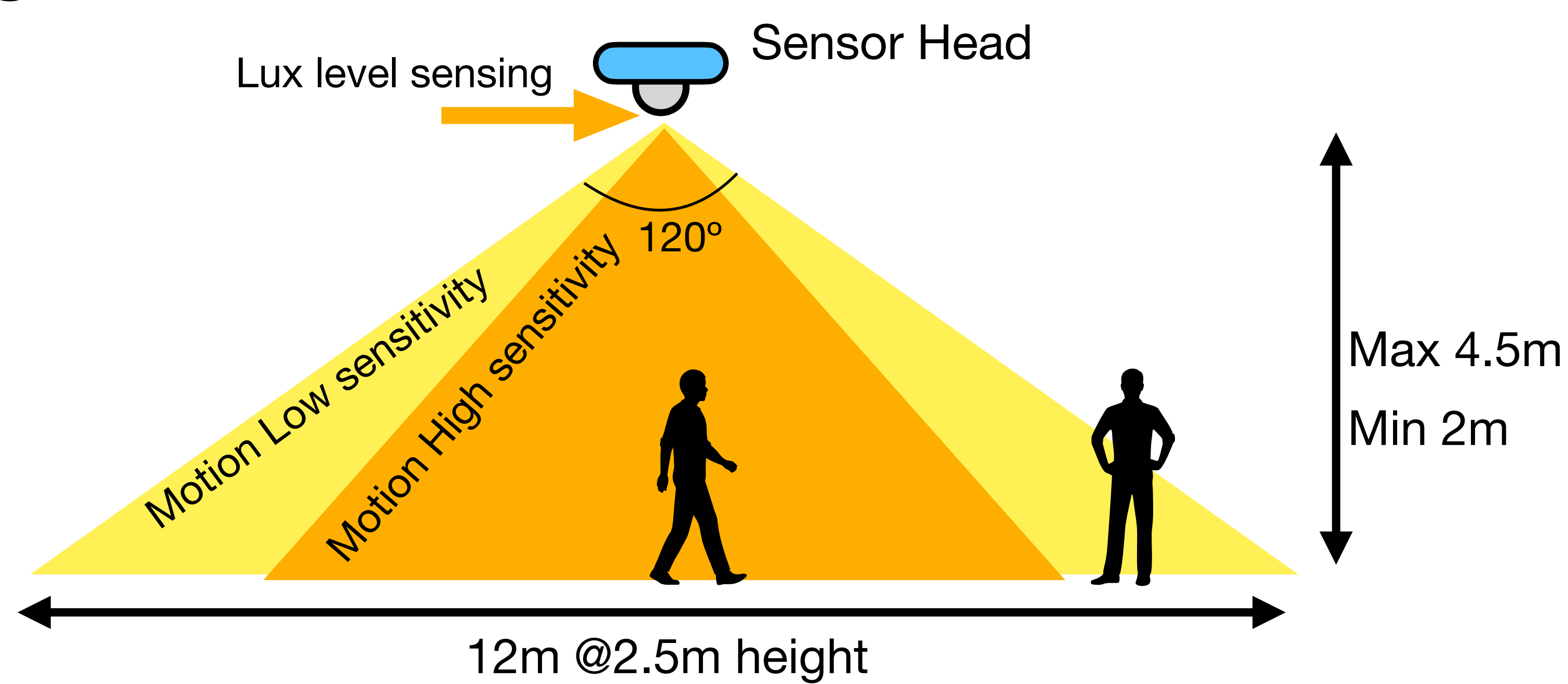
## Features:

- For window area lightings
- Split type design
- Work with Skymon IOT system to control wireless light controllers
- Dual technology motion sensing Microwave and Passive Infra-red (PIR)
- High resolution 16-bit microwave sensor IC
- Single sensor control multiple lights
- IEEE802.15.4 wireless mesh network
- AC220V supply
- Online setup light dimming operation based on measured lux level
- Detachable antenna
- Easy install
- Control unlimited lights via server user interface
- Made in Hong Kong

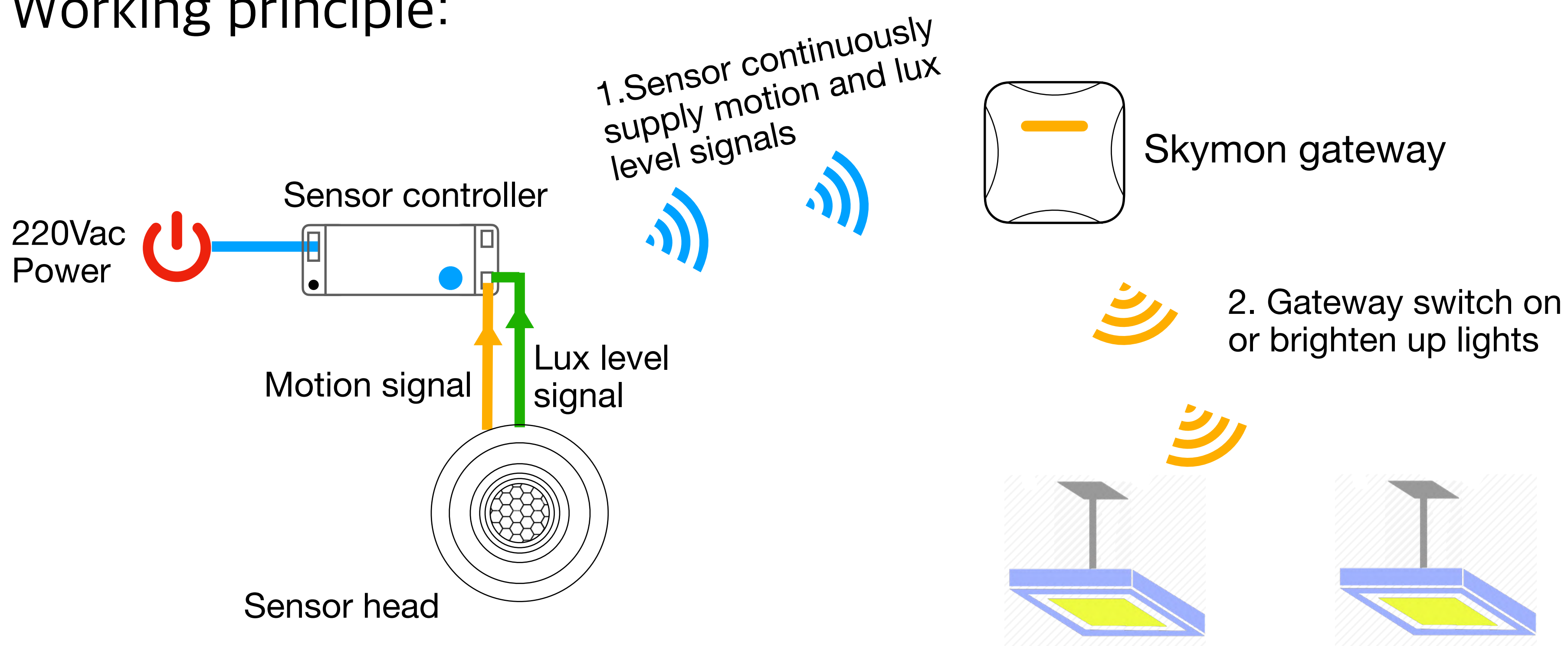


## Motion Detect range:

Mode:  
Microwave AND Infra-red  
Microwave OR Infra-red  
Microwave only  
Infra-red only



## Working principle:

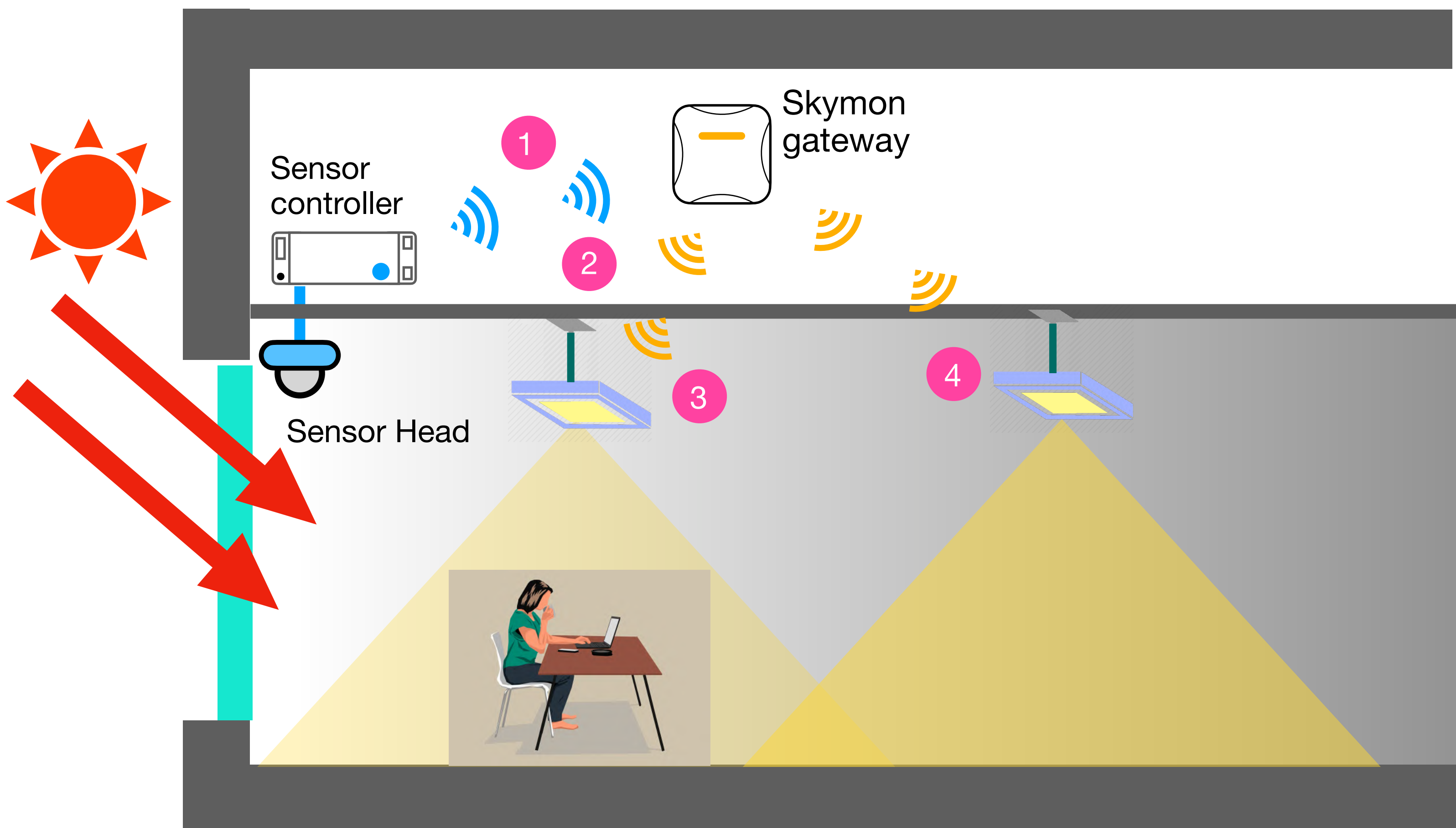


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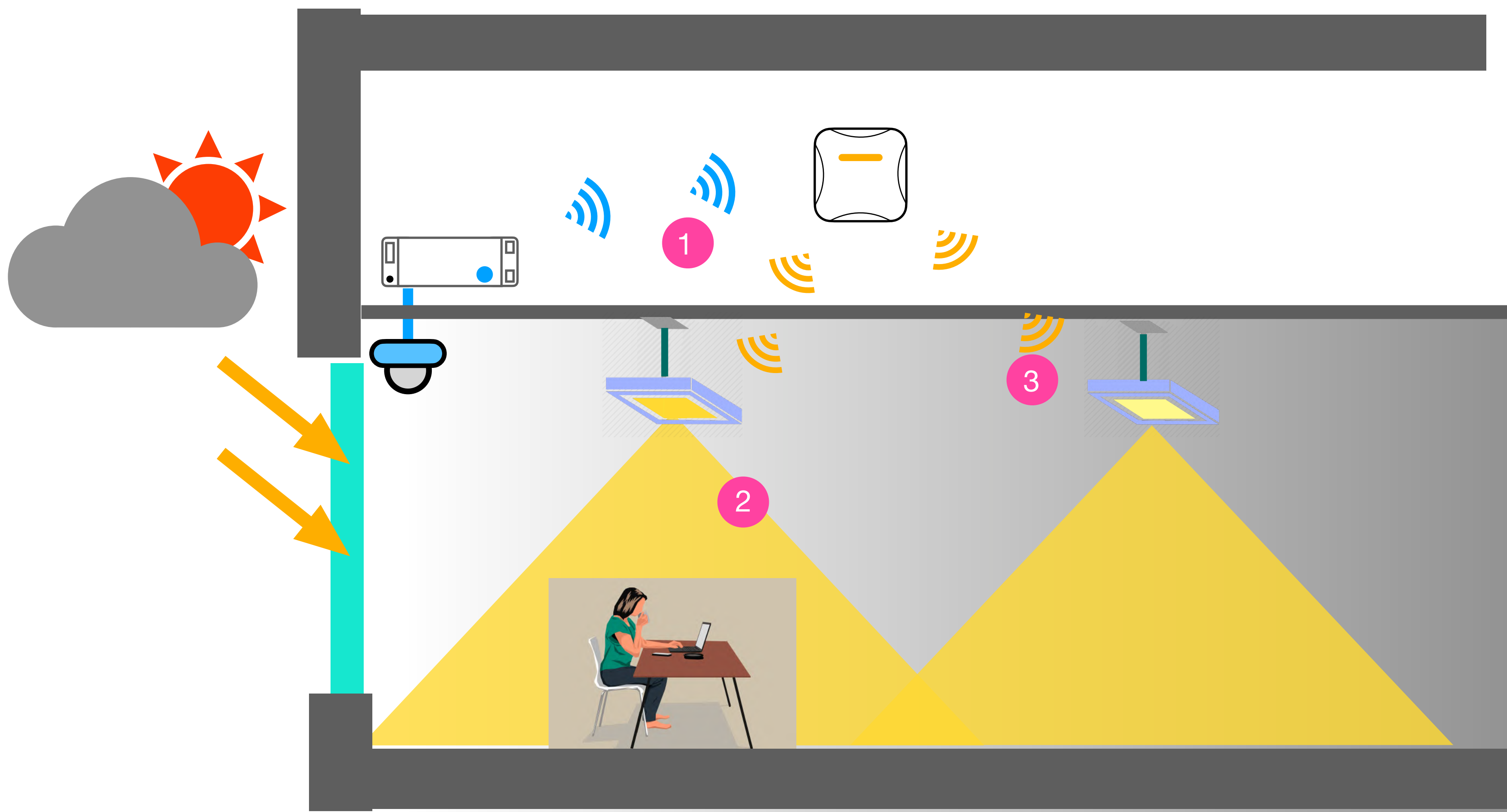
## Operation:

### Scenario 1 Strong daylight thru window



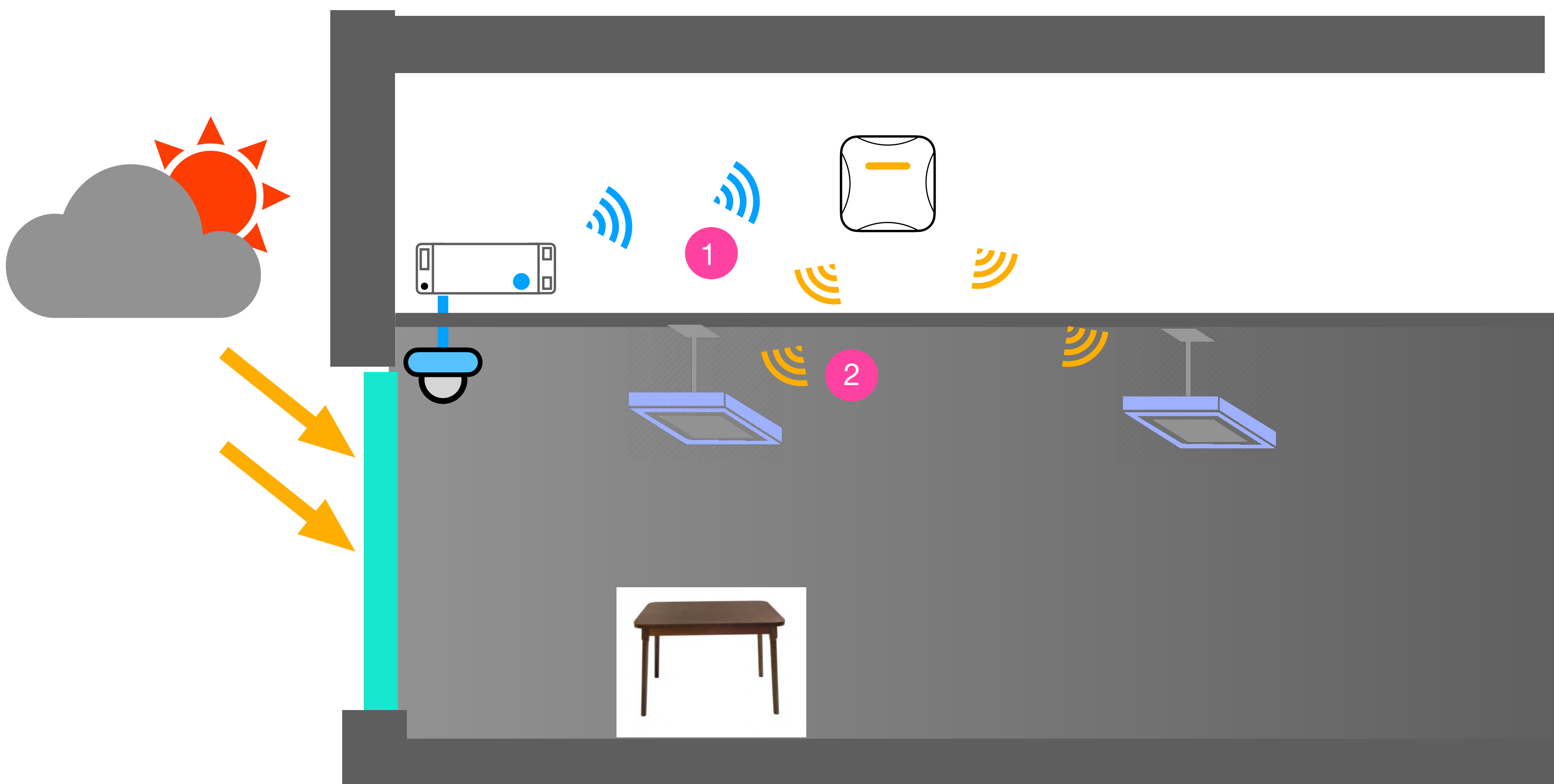
- 1 Sensor detect nearby motion and switch on lightings
- 2 Sensor continuously measures lux level and feeds to gateway
- 3 Gateway set to dim down lightings due to high lux level measurement
- 4 Different lights can have different light level setting

### Scenario 2 Weak daylight thru window



- 1 Sensor continuously measures lux level and feeds to gateway
- 2 Gateway set to brighten up lightings due to low lux level measurement
- 3 Different lights can have different light level setting

### Scenario 3 No motion detected



- 1 Sensor does not detect any motion
- 2 Gateway set to turn off lightings after preset delay time no matter the lux level

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### Specifications:

Model number	MA-SMO-WRP-ZB
Light Sensor Type	16-bit high resolution IC sensor
Lux Measure range	1 - 65535 lux
Motion Sensor Type	5.8GHz 2mW Microwave + Passive Infra-red (PIR)
Motion detection mode	Microwave and PIR Microwave or PIR Microwave only PIR only Disable all motion
Online adjust motion off delay time and motion detection mode	•
Online adjust light on/off, brightening/dimming	•
Detachable antenna	•
Detection range	12m diameter(microwave) 8m diameter(PIR) @2.5m height
Input AC power	220V 50Hz
Mounting	Ceiling mount
Communication	IEEE 802.15.4 2.4-2.45GHz self-form mesh network
Transmitter range	15m
Controller size (L x W x H)	110x110x35mm
Sensor head size (Dia x H)	Dia 98mm x 40mm
Operating temperature	-20 - 50°C
Enclosure	ABS, IP20

### Dimensions:

