

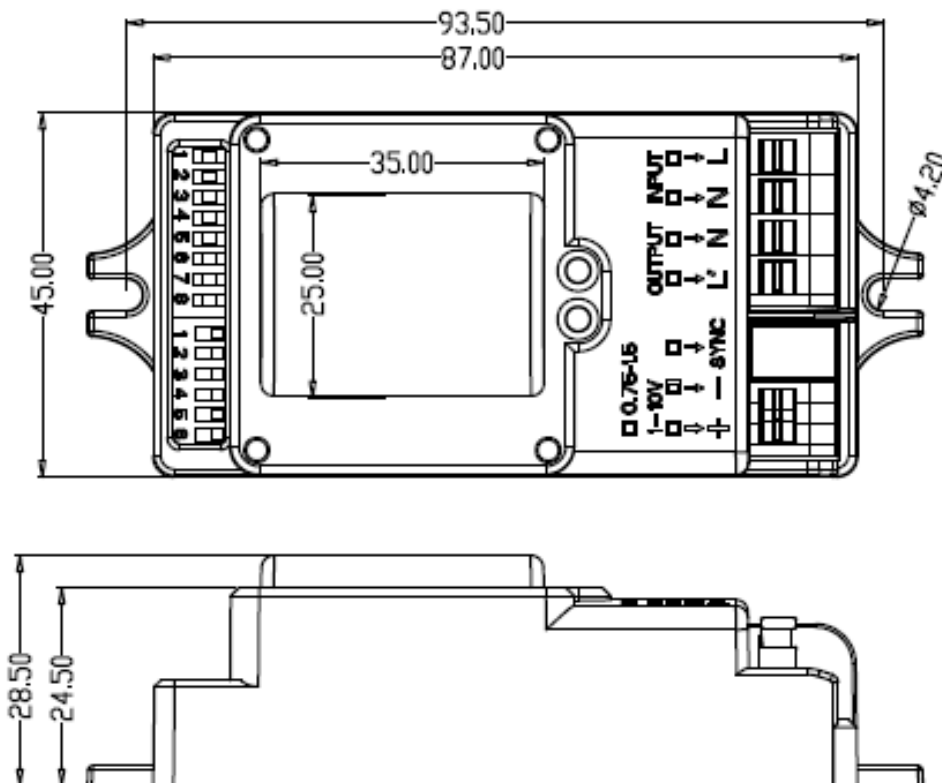
# Alphalite

## MMS-601V Motion Sensor

### Feature

1. Automatic dimming when used in combination with 0-10V dimmable LED drivers or ballasts.
2. Built-in adjustable daylight sensor.
3. 0 - 10V interface can match up with standalone daylight sensor DSMS-01 and achieve daylight harvesting.
4. Support higher mounting height 15m Max.
5. Compact size makes it suitable to fix within most luminaries
6. Detection area, time delay and daylight threshold can be precisely set via DIP switch.
7. Wide detection area, range up to 16m in diameter.
8. on off function/ cluster control function/ dimming function
9. Optional surface mounting and base mounting

### Product information



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## Function

### 3 -step dimming function/Cluster control function



- 1 When no motion is detected, all lamps switch off.



- 2 With insufficient ambient light, if any motion is detected in exit or entrance, all lamps switch on at the same time.



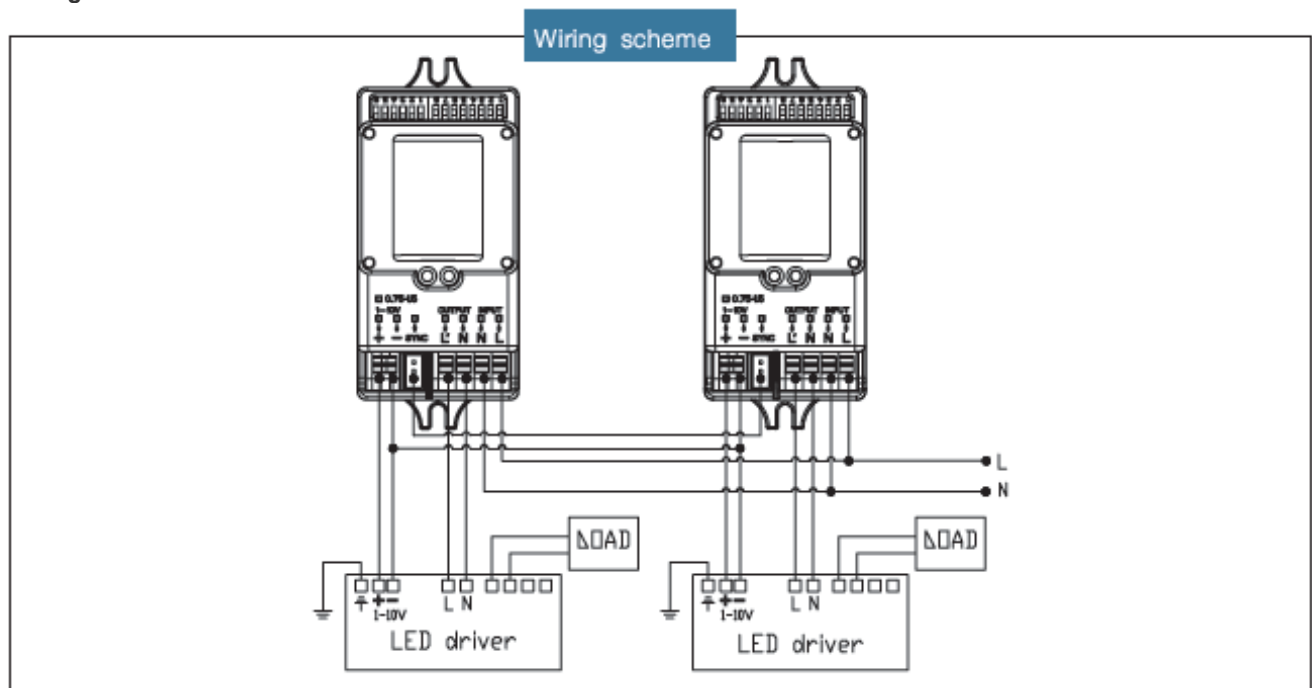
- 3 After hold time, all lamps dim to a low light level if no new motion trigger.



- 4 After stand-by period, the lamps switch off if no movement detected in the detection zone.

Wiring scheme: same as the wiring scheme of any-to-any communication.

## Wiring:

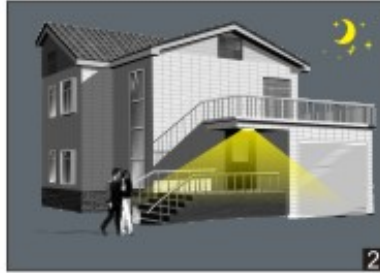


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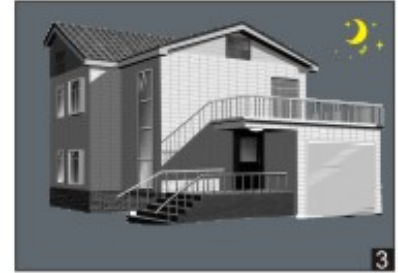
## On off function



With sufficient ambient light, the sensor does not switch on the lamp.

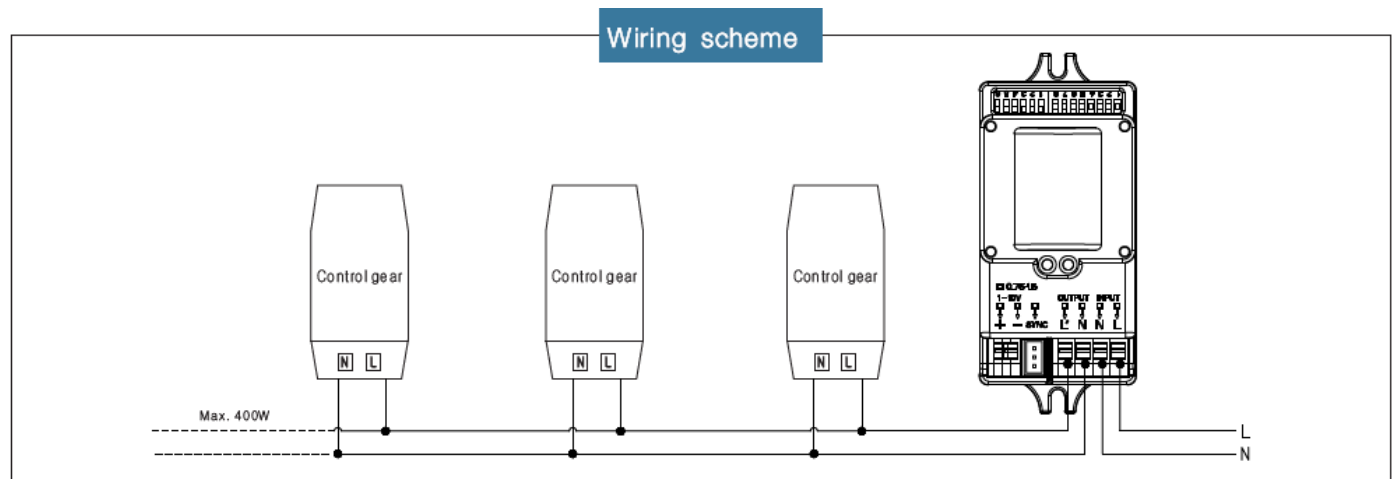


With insufficient ambient light, the sensor switches on the lamp when motion is detected.



After hold time, the lamp gradually dims down if no motion detected.

## Wiring:



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## Daylight Harvesting



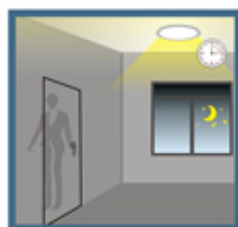
Ambient light larger than preset illumination level (Set by 1-10V daylight sensor), the lamp keeps off.

Ambient light below than preset illumination level, the lamp switches on when motion is detected.

The lamp lights on 100% illumination or dims to maintain the preset illumination level against the level of ambient light.



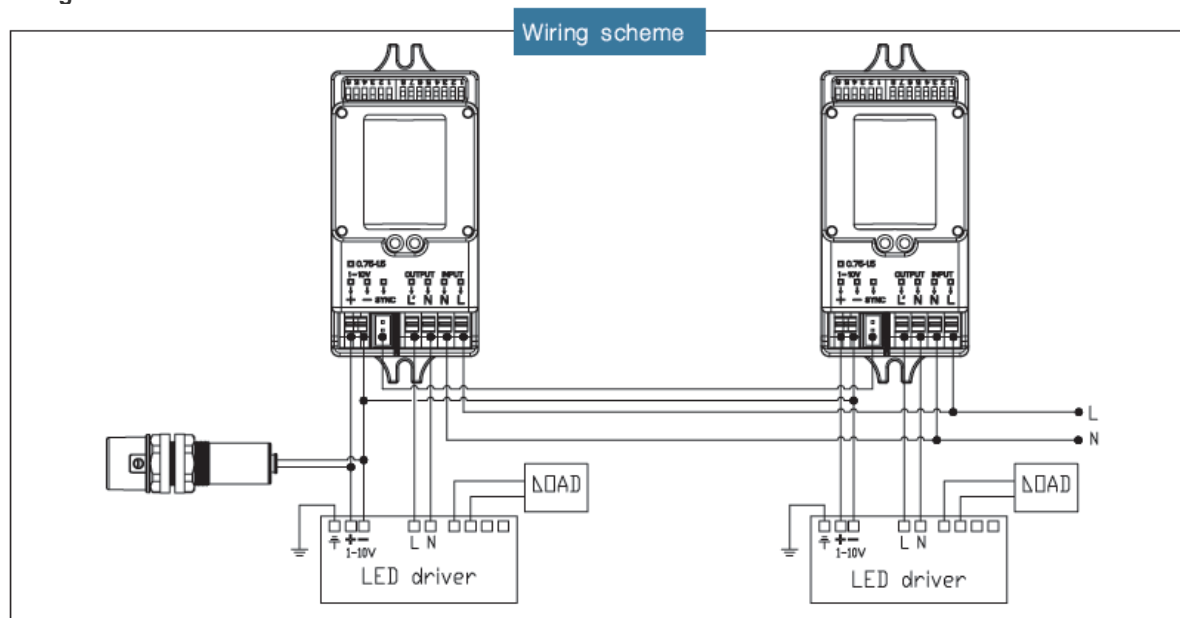
If with sufficient ambient light, the lamp turns off at once, even with motion trigger.



If with insufficient ambient light, the lamp dims to stand-by dimming level (Set in the motion sensor) when no motion detected after hold time, and then switches off after stand-by period.



## Wiring



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## Specifications

Operating voltage	120-277Vac, 50Hz
Rated load	800W(inductive), 1200W (resistive)
HF system	5.8GHz±75MHz, ISM wave band
Power consumption	≤0.5W(standby), <1W(operation)
Transmitting power	<0.5mW
Detection zone Max.(D x H)	16m x 15m
Motion detection	0.5~3m/s
Detection angle	150°(wall installation) 360°(ceiling installation)
IP rating	IP20
Operation Temperature	-35°C~70°C
Hold time	5s/30s/90s/3min/20min/30min
Detection sensitivity	10% / 50% / 75% / 100%
Daylight sensor	2lux/5lux / 10lux / 25lux /50lux / 100lux / Disable
Stand-by period	0s/ 5s / 5min / 10min / 30min / 1h / ∞
Stand-by dimming level	10% / 20% / 30% / 50%
Mounting height	15m Max.
Life time	50,000 hours
Guaranty	5 years

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By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application.

		1	2	
ON ↑ [Switch Icon]	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	25%

		3	4	5	
ON ↑ [Switch Icon]	I	ON	ON	ON	5s
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	30min

		6	7	8	
ON ↑ [Switch Icon]	I	ON	ON	ON	6s
	II	-	ON	ON	5s
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

		1	2	3	4	
ON ↑ [Switch Icon]	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	-	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable

		5	6	
ON ↑ 	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

## Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application .

## Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

## Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.  
When set to "+∞" mode, the low light is maintained until motion is detected.

## Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

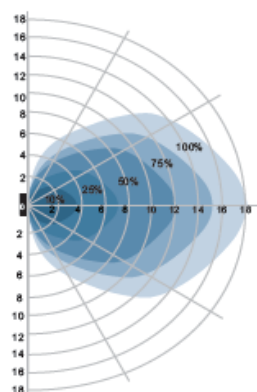
50lux, 30lux: twilight operation, 10lux, 5lux: darkness operation only.

Note that daylight sensor is active only when lamp totally switches off.

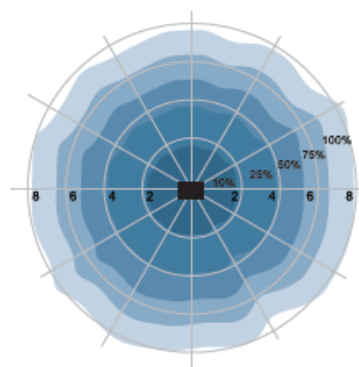
## Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.

## Detection Pattern



Wall mounting pattern (Unit: m)  
Suggested installation height: 1-1.8m



Ceiling mounting pattern (Unit: m)  
Suggested installation height: 2.5-10m