



PROJECT NAME: _____ CATALOG NUMBER: _____
NOTES: _____ FIXTURE SCHEDULE: _____

Dimmable Microwave Motion Sensor MC601V 120/277V



Product Details:

Place of Origin:	China
Brand Name:	WareLight
Certification:	UL
Model Number:	MC601V

Detailed Product Description

Operating Voltage:	120-277Vac, 50/60Hz	Product Name:	Microwave Motion Sensor
Function:	2 Step /3 Step Dimming/on Off Function	IP Rating:	IP20
Rated Load:	400W@120Vac(Ballast) ,1000W@277Vac(Ballast) 800W@120Vac(Resistive),1000W@277Vac(Resistive)	HF System:	5.8GHz ±75MHz, ISM Wave Band
Size:	3.68" X 1.77" X 1.12"	Detection Area:	8m Max.

UL Certification Dimming Function Microwave Motion MC601V With 0-10V Button for North America

Description

The MC601V is innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials.

It is an enhanced detection zone sensor, as it uses the third generation technology. This 5.8GHz microwave module can easily be mounted up to 39ft (12m) high and has a large detection area 25ft (8m) in radius.

The sensors allow energy saving without compromising ease of use. When used in combination with 0-10V dimmable LED driver or ballast, the sensor can use a 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switch off.

Also, the 0-10V interface in the sensors can match up with stand-alone daylight sensor MS01, and implement daylight harvesting, means the lighting system has automated controls that either turn off or dim artificial light in response to the available daylight in the space.



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Features:

1. Automatic dimming when used in combination with 0-10V dimmable LED drivers or ballasts.
2. Built-in adjustable daylight sensor.
3. 1-10V interface can match up with Merytek standalone daylight sensor MS01 and achieve daylight harvesting.
5. Support higher mounting height 12m Max.
6. Compact size makes it suitable to fix within most luminaries
7. Detection area, time delay and daylight threshold can be precisely set via DIP switch.
8. Wide detection area, range up to 8m in diameter.
9. on off function/ cluster control function/ dimming function
10. Optional surface mounting and base mounting

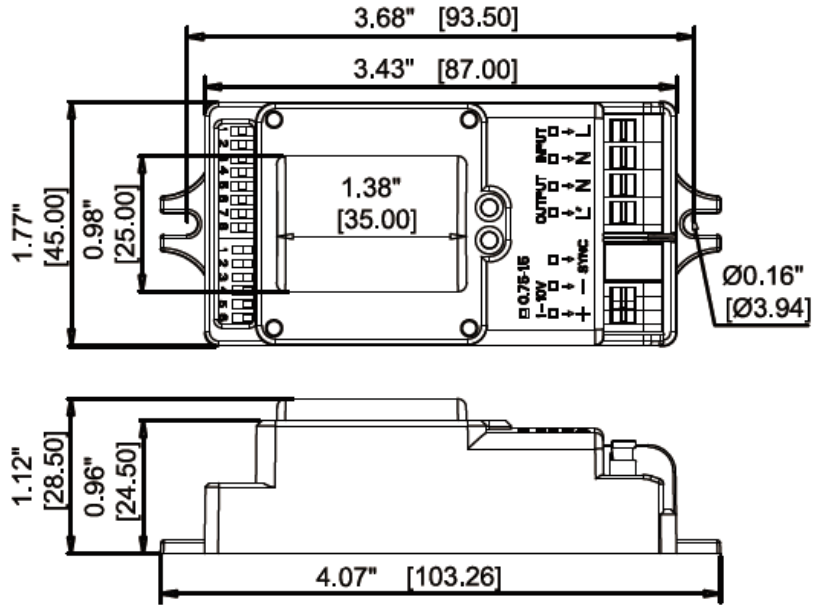
Specifications

Operating voltage	120-277Vac, 50Hz
Rated load	400W@120Vac(Ballast) ,1000W@277Vac(Ballast);800W@120Vac(Resistive),1000W@277Vac(Resistive)
HF system	5.8GHz±75MHz, ISM wave band
Power consumption	≤0.5W(standby), <1W(operation)
Transmitting power	<0.5mW
Detection Area (Radius)	8m Max.
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/ + ∞
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	12m Max.
Life time	50,000 hours
Guaranty	5 years

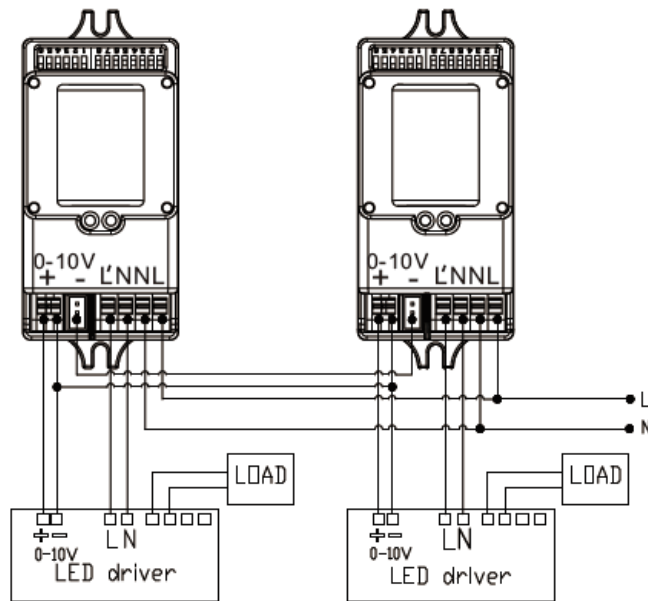


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Dimensions



Wiring





Dimmable Microwave Motion Sensor MC601V
120/277Vac

Functions:

3 -step dimming function/Clustor control function



■ When no motion is detected, all lamps switch off.



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



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



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

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 is detected.



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120/277Vac

On/Off function



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.



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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	I	ON	ON	100%
	II	ON	-	70%
	III	-	ON	50%
	IV	-	-	30%

Detection area

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

		3	4	5	
ON	I	ON	ON	ON	5s
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	30min

Hold time

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

		6	7	8	
ON	I	ON	ON	ON	0s
	II	-	ON	ON	5s
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	>2

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.

		1	2	3	4	
ON	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	20Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable

Daylight sensor

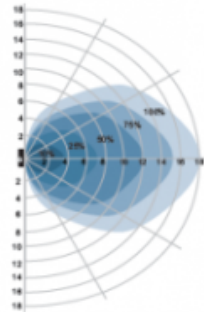
The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.
When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.
50lux, 30lux: twilight operation, 10lux, 5lux: darkness operation only.
Note that daylight sensor is active only when lamp totally switches off.

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

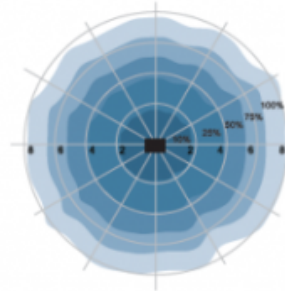
Stand-by dimming level

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



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