

Specification for Microwave Motion Sensor MC072V



- On/ off; 3-step dimming function, suitable for LED panel light/offices;
- North American version, voltage range: 120-277V AC
- Minor motion and normal motion detecting;
- Mode: Daylight threshold or Daylight harvesting
- Operate together with MS07 can achieve daylight harvesting;
- Detection area, hold time, daylight sensor and mode can be precisely set via DIP switches.

1. Parameters

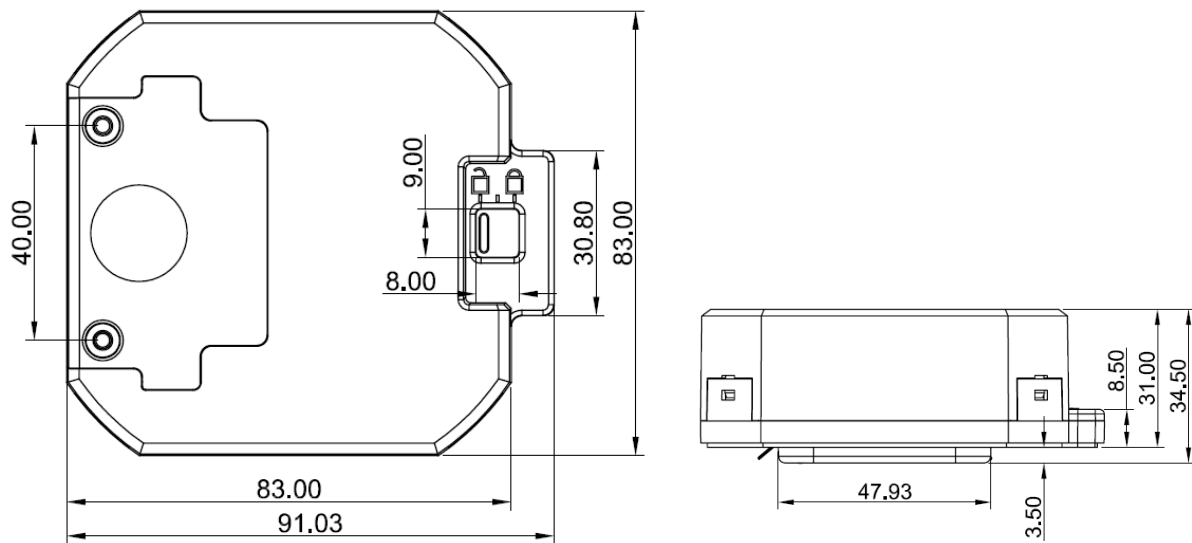
Input	Operating Voltage	198-264V AC 50/60Hz
	Voltage Range	220-240V AC 50/60Hz
	Stand-by Power	<1W
	Wiring Method	Terminals
Output	Operating Mode	ON/OFF, 1-10V
	Load Type	400W (Inductive) 800W (Resistive)
	1-10V Dimming	< 50mA (Non constant current source)
	Wiring Method	Terminals
Sensor Parameters	Operating Frequency	5.8 GHz $\pm$ 75 MHz, ISM Wave Band
	Transmitting Power	0.5mW Max.
	Sensitivity	100%/50% (Can be set via 1 DIP)
	Mode	Sensor: Active/disable (Can be set via 1 DIP)
	Hold Time	5S/30S/1min/5min/15min/30min (Can be set via 3 DIP)
	Stand-by Period	0S/5min/10min/20min/30min/+ ∞ (Can be set via 3 DIP)
	Daylight Sensor	25LUX/50Lux/100Lux/250Lux/350Lux/500Lux/Disable (Can be set via 4 DIP)
	Natural Light Adaptive Range	100Lux/250Lux/350Lux/500Lux/Disable
	Daylight Mode	Daylight threshold /Daylight harvesting (Operate together with MS07) (Can be set via 1 DIP)

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	Stand-by Dim Level	15%/30% (Can be set via 1 DIP)
	Mounting Height	3m
	Detection Area (Radius)	Normal motion detecting area: $4m \pm 1m$ Minor motion detecting area: $1.5 \pm 0.5m$
	Detection Angle	150° (Wall mounting), 360° (Ceiling mounting)
Operating Environment	Operating Temperature	-25°C~55°C
	Storage Temperature	-40°C~80°C
Others	Certificate Requirement	TUV
	IP Rating	IP20
	Installation Requirement	Independent installation
	Packaging Requirement	Bubble bag+ Clapboard + Outer case (K=A)
	Life	50000h

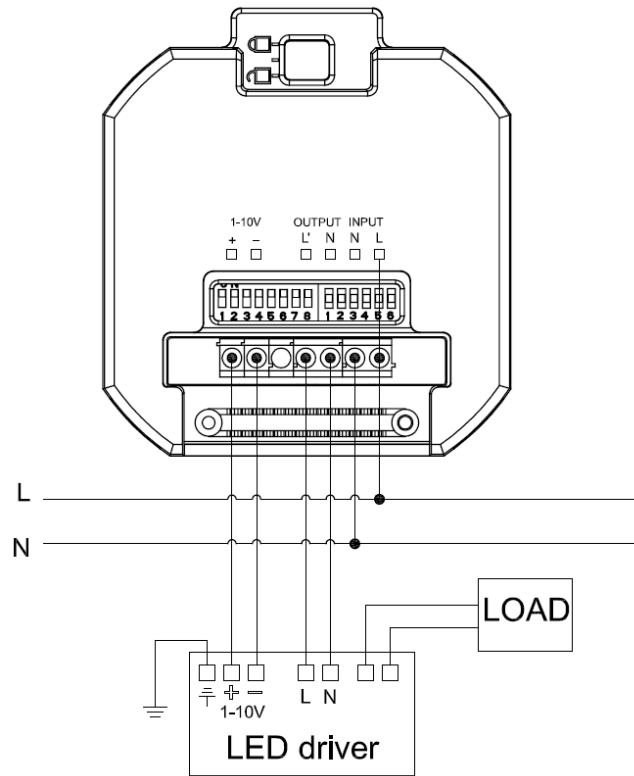
2. Dimension (Unit: mm)



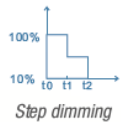
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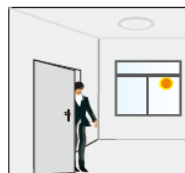
3. Wiring Diagram



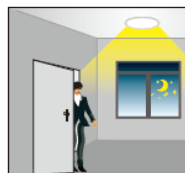
4. Function



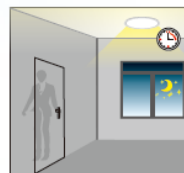
3-step dimming function



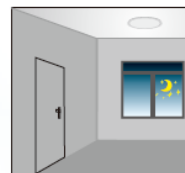
① With sufficient ambient light, the light will not be switched on.



② With insufficient ambient light, the sensor switches on the light when motion is detected.



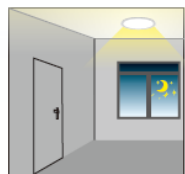
③ After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



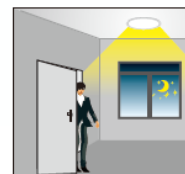
④ After elapse of stand-by period, the sensor switches off the light if no motion is detected in the detection zone.



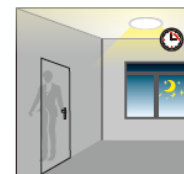
2-step dimming function



① If there is no motion detected, the light will be remained at a low light level all the time.



② When motion is detected, the sensor will switch on the light to 100% brightness.

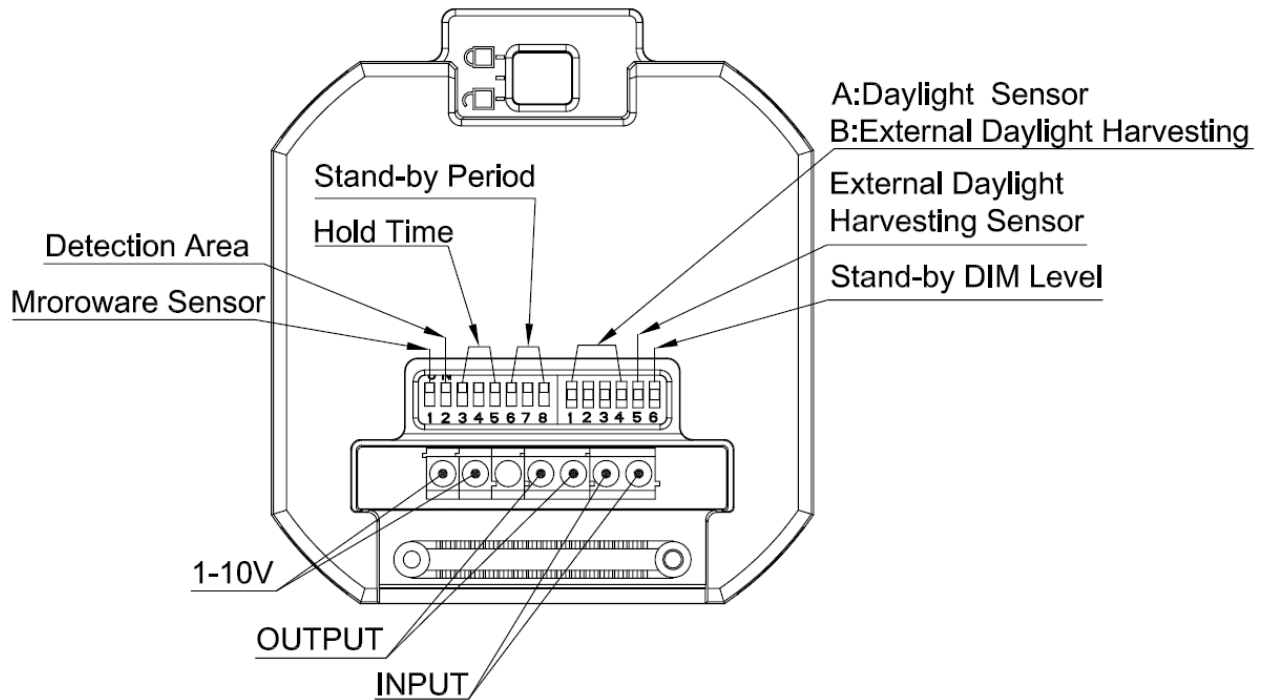


③ After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

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5. Function Diagram



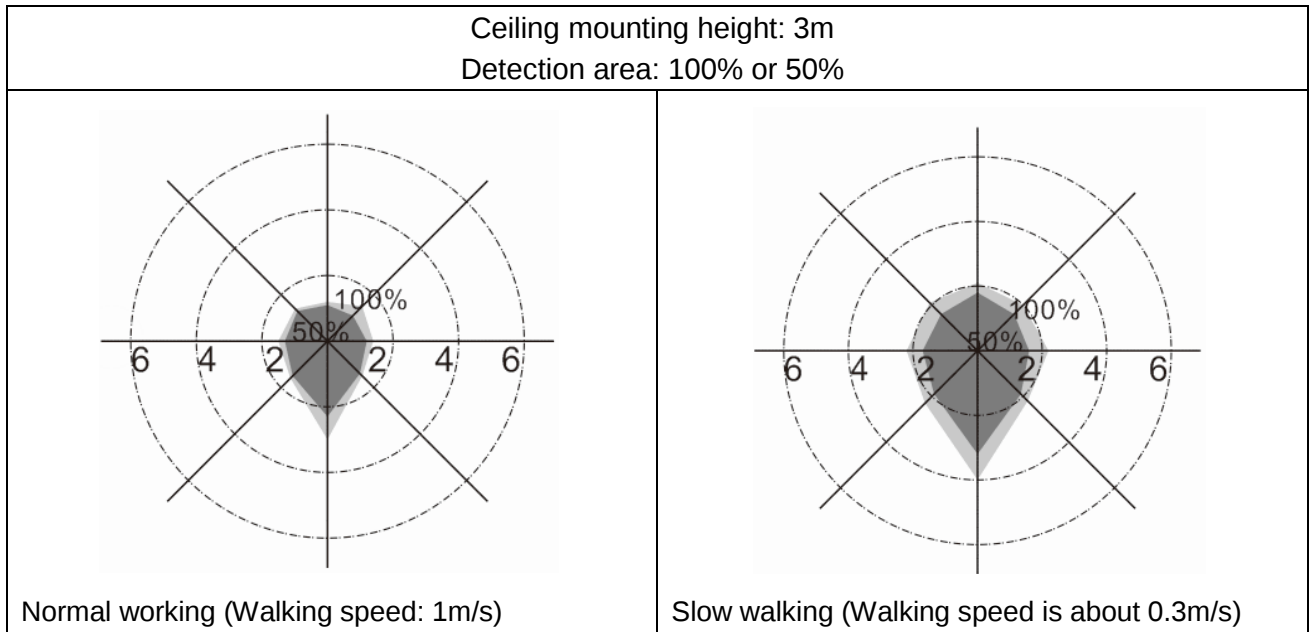
6. Radiation Pattern

Vertical detecting directions:

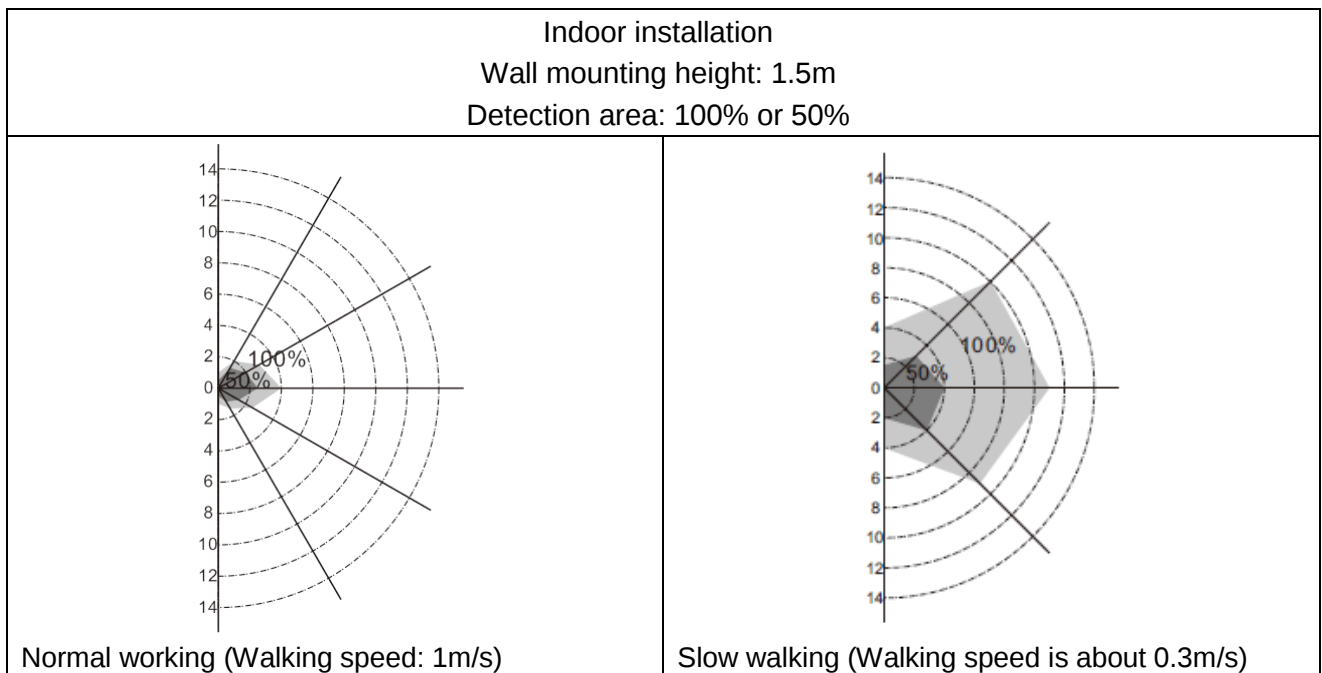


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Horizontal detecting directions:



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7. Sensor Settings

- Mode (SW1)

	1
Active	ON
disable	-

- Sensitivity (SW1)

	2
100%	ON
50%	-

- Hold Time (SW1)

	3	4	5
5S	ON	ON	ON
30S	-	ON	ON
1min	ON	-	ON
5min	-	-	ON
15min	ON	ON	-
30min	-	-	-

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- Stand-by Period (SW1)

	6	7	8
0S	ON	ON	ON
5min	-	ON	ON
10min	ON	-	ON
20min	-	-	ON
30min	ON	ON	-
+∞	-	-	-

- Daylight Threshold (SW2)

	1	2	3	4
25Lux	ON	ON	ON	ON
50Lux	-	ON	ON	ON
100Lux	ON	-	ON	ON
250Lux	ON	ON	-	ON
350Lux	ON	-	-	ON
500Lux	ON	ON	ON	-
disable	—	—	—	—

- Daylight Control Mode (SW2)

5	
ON	Daylight Threshold
-	Natural light adaptive

- Stand-by Dim Level (SW2)

6	
ON	15%
-	30%