# **SPECIFICATION**

Product Name:	Microwave Motion Sensor	
Model No.:	MC103S	
Issue Date:	Mar. 23, 2020	
CUSTOMER APPROVED		

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
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#### 1. Features



- Input 120-277Vac
- Output 120-277Vac
- Auxiliary output 12Vdc
- Built-in relay,switch on/off power by relay
- 1-10V interface for corridor function with sensor
- 5 years warranty

### 2. Parameter

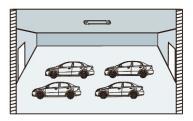
Input	Input Voltage	108-305VAC
	DC input voltage	N/A
	Rated Voltage	120-277VAC
	Stand-by Power	≤1W
	Surge	L-N 1KV
	Wiring	Press-in terminals 0.75-1.5mm2
Output	Ouput voltage	12Vdc
	Working mode	ON/OFF,0-10V dimming
	Transmitting power	0.5mW Max.
		120V,50/60Hz,2A ballast
Sensor	Load Capacity	277V,50/60Hz 2A,ballast
Parameters		220-240V,50/60Hz,2A Inductive
	0-10V dimming	<50mA
	0-10 v diffilling	10% (1.4-1.6V) ,20%(1.9-2.1V),30%(2.9-3.1V),50%(4.9-5.1V)
	Wiring	Press-in terminals 0.75-1.5mm2
	Operating Temperature	-25℃+60℃
	Storage Temperature	Temperature: -40℃+80℃;
	Storage Temperature	Humidity: 10%-95% (non-condensing)
	EMC standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547
	Safety standard	EN61347-1,EN61347-2-13
Operating Environment	Environmental Requirement	Compliant to RoHS
	Certificate	CE pending
	IP Rating	IP20
	Protection Class	Class II
	Installation	Built-in/stand-alone
	Dimension	120x30x22mm
	Package	cartons

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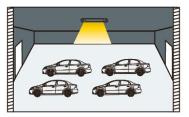
Net '	Weight	58g
Lifet	time	5 years warranty @Ta 230V full load

### 3. Function (Below function is available only work with Merrytek DC sensor)

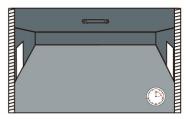
1) On/OFF Function (stand-by period be set to "0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.

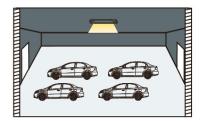


With insufficient ambient light, the sensor switches on the light when motion is detected.



After elapse of hold time, the sensor switches off the light when no motion is detected.

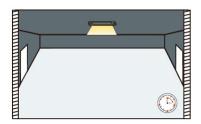
#### 2) 2-step dimming function (stand-by period be set to "+∞")



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

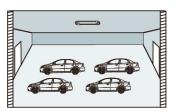


When motion is detected, the sensor will switch on the light to 100% brighteness

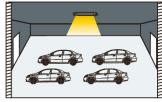


After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

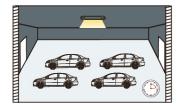
#### 3) 3-step dimming function (stand-by period be set to "10S/1min/3min/5min/10min/30min")



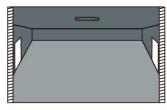
With sufficient ambient light, the light will not be switched on even if with motion signal.



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



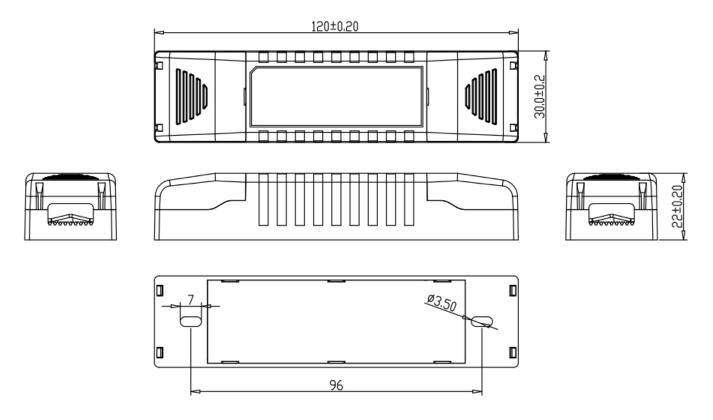
After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



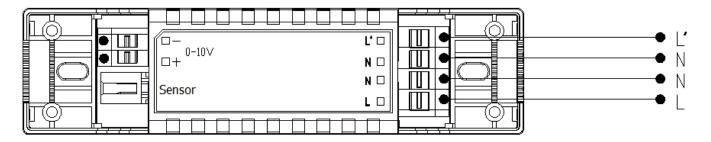
After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.



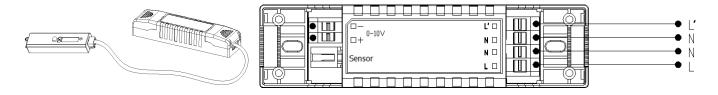
### 4. Dimension (mm)



## 5. Wiring



## 6. Wiring example when combined with Merrytek DC sensor





# 7. Application Notice

- 1) The sensor should be installed by a professional electrician. Please turn off the power before installing or wiring.
- 2) MC103S can only work with Merrytek DC sensor, please contact with Merrytek sales for right DC sensor model No.accroding to your application.