

Specifications

Ver.1.1

Product Name

PIR MOTION SENSOR "PaPIRs"

Model No.

EKMB139111□K

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4.Characteristics

4-1 Detection Performance

Conditions for measuring: Ambient temperature=25°C(77° F) Operating voltage=3VDC

	Temperature difference	Value	Conditions concerning the target
(Note1) Detection Range	8°C(14.4° F)	Max 3.5m	1.Movement speed: 0.5m/s 2.Target concept is human head (Object size:Around 200×200mm)
	4°C(7.2° F)	Max 2.5m	

Note1: Depending on the temperature difference between the target and the surroundings, detection range will change.

		Value	Notes
Detection Area	Horizontal	97° (±48.5°)	Refer to the section 4-5.
	Vertical	97° (±48.5°)	
	Detection zones	112	

4-2 Maximum Rated Values

	Value	Unit
Power Supply Voltage	-0.3~4.5	VDC
Usable Ambient Temperature	-20~+60°C (-4~+140° F) Do not use in a freezing or condensation environment	
Storage Temperature	-20~+70°C (-4~+158° F)	

4-3 Electrical Characteristics

Conditions for Measuring: Ambient temperature=25°C(77° F)

	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	2.3	—	4.0	VDC	—
Electrical Current Consumption	Iw	—	6	12	μA	Iout=0
Output Current	Iout	—	—	100	μA	Vout ≥ Vdd - 0.5
Output Voltage	Vout	Vdd - 0.5	—	—	VDC	—
Circuit Stability Time (when voltage is applied)	Twu	—	—	10	s	This is when temperature of the sensor is stable.