

	Ver.1.1				
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC769111				

4.Characteristics

4-1 Detection Performance

Conditions for measuring: Ambient temperature=25°C(77° F) Operating voltage=5VDC

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

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

		Value	Notes
	Horizontal	97 $^\circ$ ($\pm48.5^\circ$)	
Detection Area	Vertical	97° ($\pm48.5^\circ$)	Refer to the section 4-5.
	Detection zones	112	

4-2 Maximum Rated Values

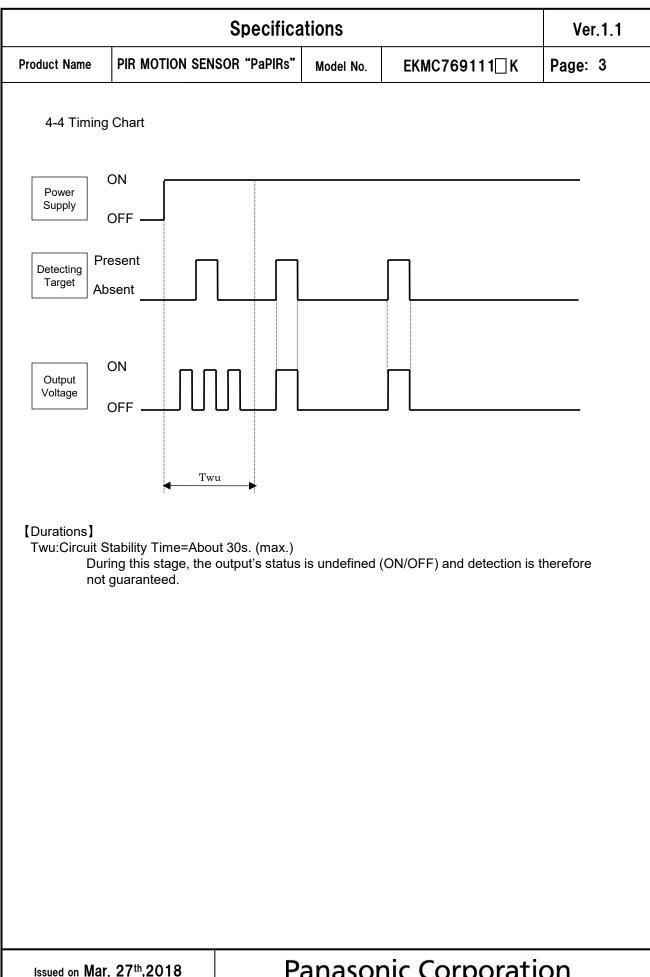
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20∼+60°C (-4∼+140° F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158° F)	

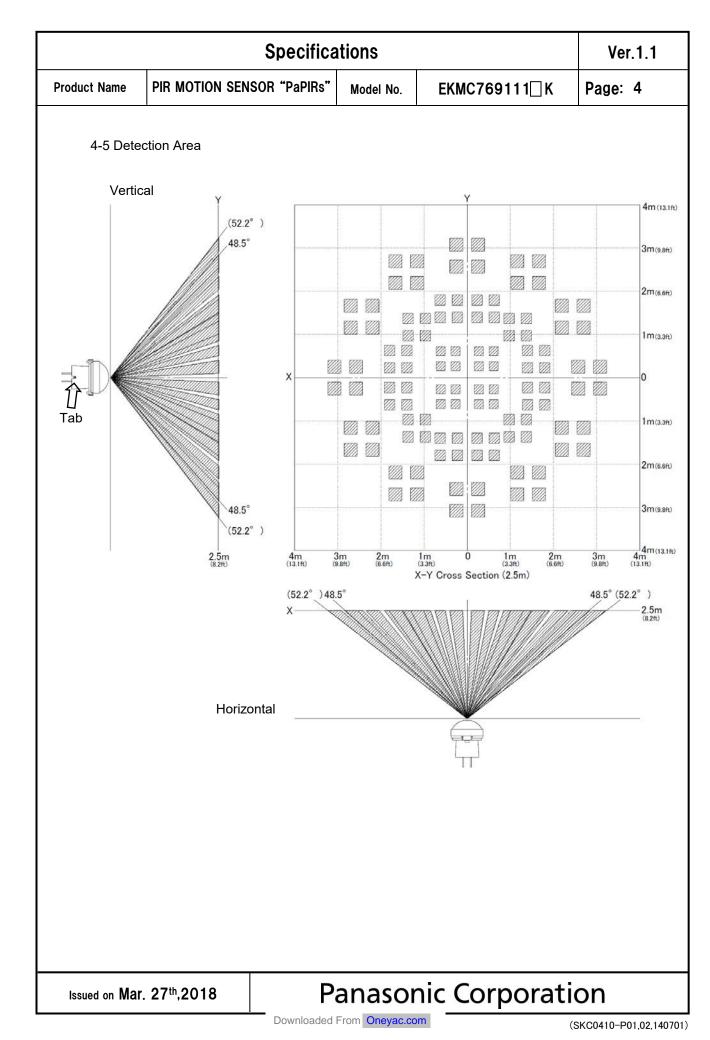
4-3 Electrical Characteristics

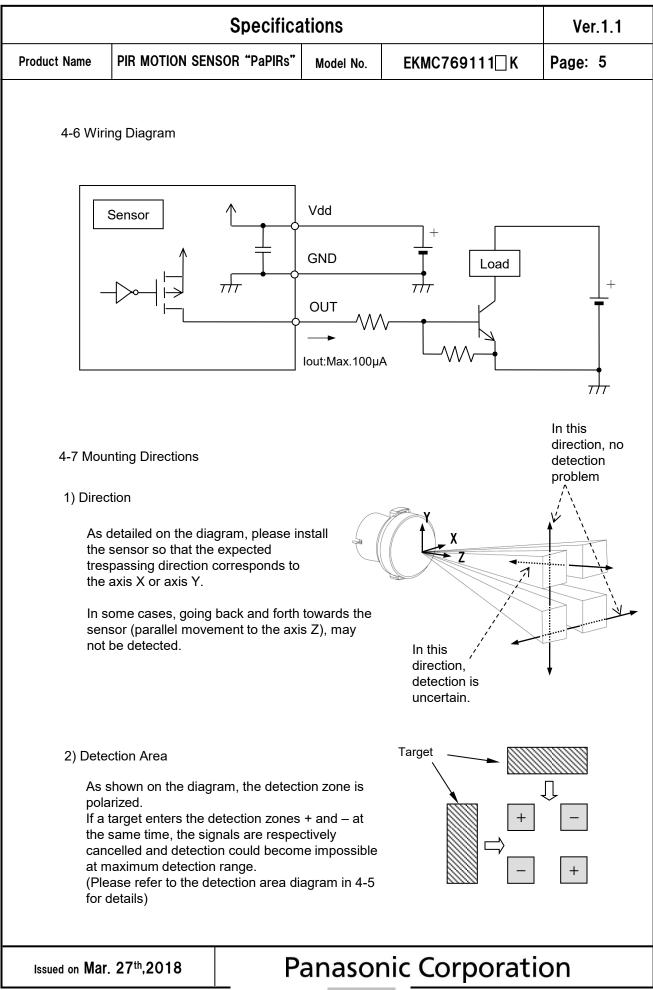
Conditions for Measuring: Ambient temperature=25°C(77° F)

	Symbol	Min	Avg.	Max	Unit	Special mentior
Operating Voltage	Vdd	3.0	-	6.0	VDC	—
Electrical Current Consumption	lw	—	170	300	μA	lout=0
Output Current	lout	—	_	100	μA	Vout≧Vdd−0.
Output Voltage	Vout	Vdd-0.5	_	_	VDC	_
Circuit Stability Time (when voltage is applied)	Twu	_	_	30	s	_

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Specifications				
Product Name	Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC769111			

5. Safety Precautions

Head the following precautions to prevent injury or accidents.

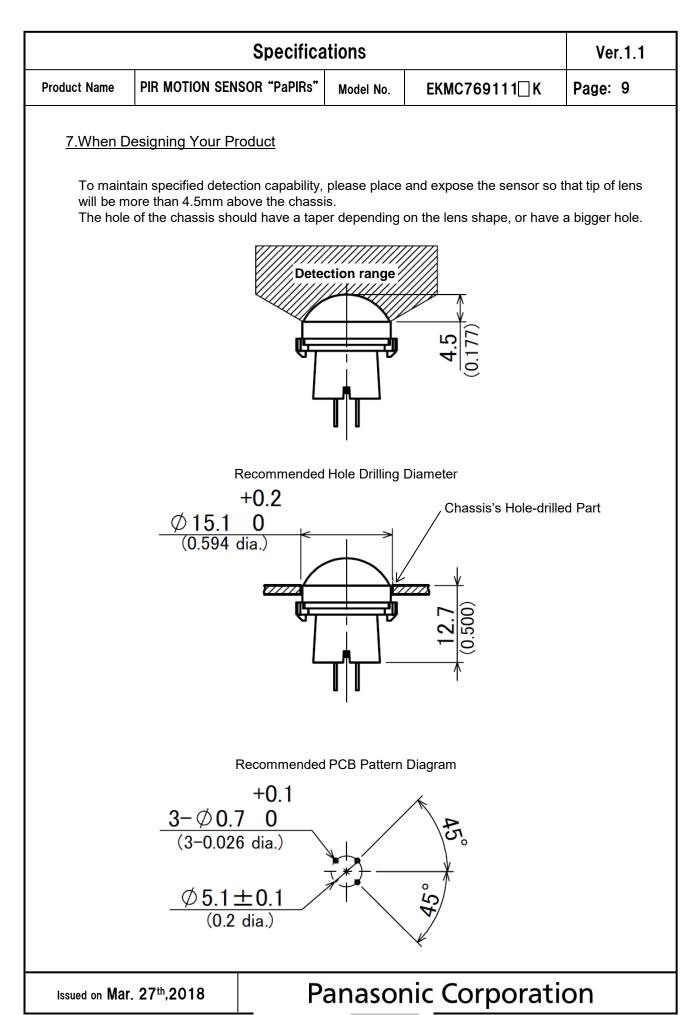
- Do not use these sensors under any circumstance in which the range of their ratings, environment conditions or other specifications are exceeded. Using the sensors in any way which causes their specifications to be exceeded may generate abnormally high levels of heat, emit smoke, etc., resulting in damage to the circuitry and possibly causing an accident.
- 2) Our company is committed to making products of the highest quality and reliability. Nevertheless, all electrical components are subject to natural deterioration, and durability of a product will depend on the operating environment and conditions of use. Continued use after such deterioration could lead to overheating, smoke or fire. Always use the product in conjunction with proper fire-prevention, safety and maintenance measures to avoid accidents, reduction in product life expectancy or break-down.
- Before connecting, check the pin layout by referring to the connector wiring diagram, specifications diagram, etc., to verify that the connector is connected properly. Mistakes made in connection may cause unforeseen problems in operation, generate abnormally high levels of heat, emit smoke, etc., resulting in damage to the circuitry.
- 4) Do not use any motion sensor which has been disassembled or remodeled.
- 5) Failure modes of sensors include short-circuiting, open-circuiting and temperature rises. If this sensor is to be used in equipment where safety is a prime consideration, examine the possible effects of these failures on the equipment concerned, and ensure safety by providing protection circuits or protection devices. Example :
 - Safety equipments and devices
- Traffic signals
- Burglar and disaster prevention

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	Specifica	tions		Ver.1.1
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC769111⊡K	Page: 7
<u>6.Operating</u>	g Precautions			
6-1 Basic	Principles			
Howeve heat so	is a pyroelectric infrared sensor th er, it may not detect in the following urce. Besides, it could also detect t cy and reliability of the system may	cases: lack o he presence	of movement, no temperatur of heat sources other than a	a human body.
1) Dete	ecting heat sources other than the l	human body,	such as:	
b) Wh bear c) Suc	all animals entering the detection a nen a heat source for example sun l m hit the sensor regardless inside o dden temperature change inside or n HVAC, or vapor from the humidifie	light, incande or outside the around the d	detection area.	
2) Diffi	culty in sensing the heat source			
a co b) Nor	ess, acrylic or similar materials stan prrect transmission of infrared rays n-movement or quick movements o ase refer to 4-1 for details about m	, f the heat sou	irce inside the detection are	
3) Exp	ansion of the detection area			
	e of considerable difference in the tion area may be wider apart from t			y temperature,
4)Mal	function / Detection error			
output	cessary detection signal might be o t due to the nature of pyro-electric e ion strictly, please implement the c	element. Whe	en the application does not a	iccept such
6-2 Opti	mal Operating Environment Condit	ions		
2) Hun	nperature : Please refer to the ma nidity Degree :15~85% Rh (Avoid ssure : 86~106kPa			:)
5) This	rheating, oscillations, shocks can c s sensor is not waterproof or dustpr sture, condensation, frost, containir	oof. Avoid us	e in environments subject to	excessive
	id use in environments with corrosi	•		

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		Specifica	ations		Ver.1.1
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6-3 Hand	ling Cautions				
,	ot solder with a sol sensor should be h	•	ve 350°C(662	°F), or for more than 3 se	conds.
2) To ma	aintain stability of t	he product, alv	vays mount or	a printed circuit board.	
,	ot use liquids to wa rmance.	sh the sensor.	lf washing flu	id gets through the lens, it c	an reduce
4) Do no	ot use a sensor aft	er it fell on the	ground.		
,	ensor may be dan ns and be very ca			c electricity. Avoid direct hai luct.	nd contact with
,	n wiring the produc disturbances.	t, always use s	hielded cable	s and minimize the wiring le	ngth to prevent
is hig	hly recommended e resistance : be	l.		age surge. Use of surge abs e value indicated in the max	
Noise	e resistance : ±2	20V or less (Sq	uare waves w	noise can cause operating rith a width of 50ns or 1µs) capacitor on the sensor's po	
, ,	ating errors can be broadcasting offic		se from static	electricity, lightning, cell ph	one, amateur
10) Dete	10) Detection performance can be reduced by dirt on the lens, please be careful.				
,	 The lens is made of soft materials (Polyethylene). Please avoid adding weight or impacts that might change its shape, causing operating errors or reduced performance. 				
not g humi	uarantee durability dity levels will acc lanned usage and	or environment elerate the dete	ntal resistance erioration of el	uggested to prolong usage. e. Generally, high temperatu ectrical components. Please e expected reliability and le	ires or high e consider both
-	ot attempt to clean ese can cause sha			ent or solvent, such as benz	zene or alcohol,
enviro	14) Avoid storage in high, low temperature or liquid environments. As well, avoid storage in environments containing corrosive gas, dust, salty air etc. It could cause performance deterioration and the sensor's main part or the metallic connectors could be damaged.				
T H	ge conditions emperature: lumidity: se use within 1 yea	+5 ~ +40°C (+ 30 ~ 75% ar after product		F)	
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8.Special Notice

As improvements are continually being made, the specifications or design of this product are subject to change without notice.

Please strictly follow the "Safety Precautions" and "Operating Precautions" on the specifications sheet. Normal functioning cannot be expected if used in environments or conditions other than those specified above.

We are deeply committed to providing the highest quality control for this product. Nevertheless:

- For issues not addressed above, we invite you to share your suggestions, or details about your company's usage conditions, installation, specifications, needs of end users, and applications for this sensor.
- 2) To reduce the risk of harm caused by product failure to human life or assets, this product should always be used in conjunction with other safety measures, such as protective circuitry, double layered circuit boards, etc., and used within the guaranteed performance, efficiency or special characteristics values stated in the specification sheet.
- 3) This product is warranted for a period of one year, from date of delivery, applicable only if the product is used in accordance with the precautions mentioned above and the specifications sheet. We will replace or repair at the delivery location any malfunctioning or defective part or entire product if such defect or malfunction is caused by us.

However, the above warranty shall be void in the following circumstances:

- a) Damage caused to something else than the product itself.
- b) Damage or loss resulting during transportation, storage or handling after the date of supply.
- c) Phenomenon unforeseeable in the state of the technology as of the supply date.
- d) Damage caused by natural or unnatural events such as fire, earthquake, flood, or conflicts beyond our control.

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单击下面可查看定价,库存,交付和生命周期等信息

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