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Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMB129111				
	•				

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)	8°C(14.4° F)	Max 3.5m	1.Movement speed: 0.5m/s
Detection Range	4°C(7.2° F)	Max 2.5m	2.Target concept is human head (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° ($\pm48.5^\circ$)	
Detection Area	Vertical	97° ($\pm48.5^\circ$)	Refer to the section 4-5.
	Detection zones	112	

4-2 Maximum Rated Values

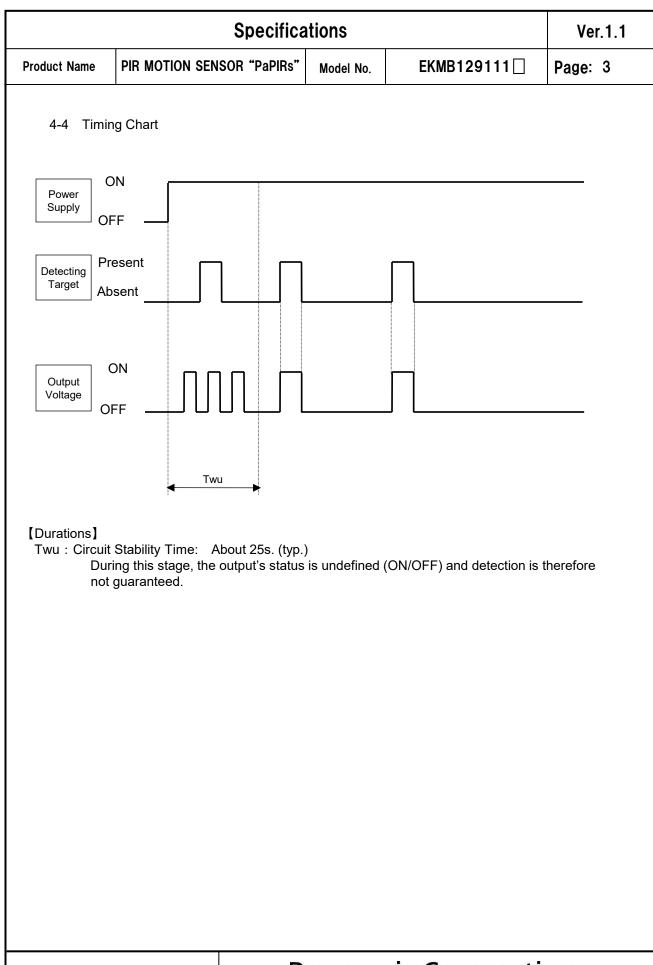
	Value	Unit
Power Supply Voltage	-0.3~4.5	VDC
Usable Ambient Temperature	-20∼+60°C (-4∼+140° F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158° F)	

4-3 Electrical Characteristics

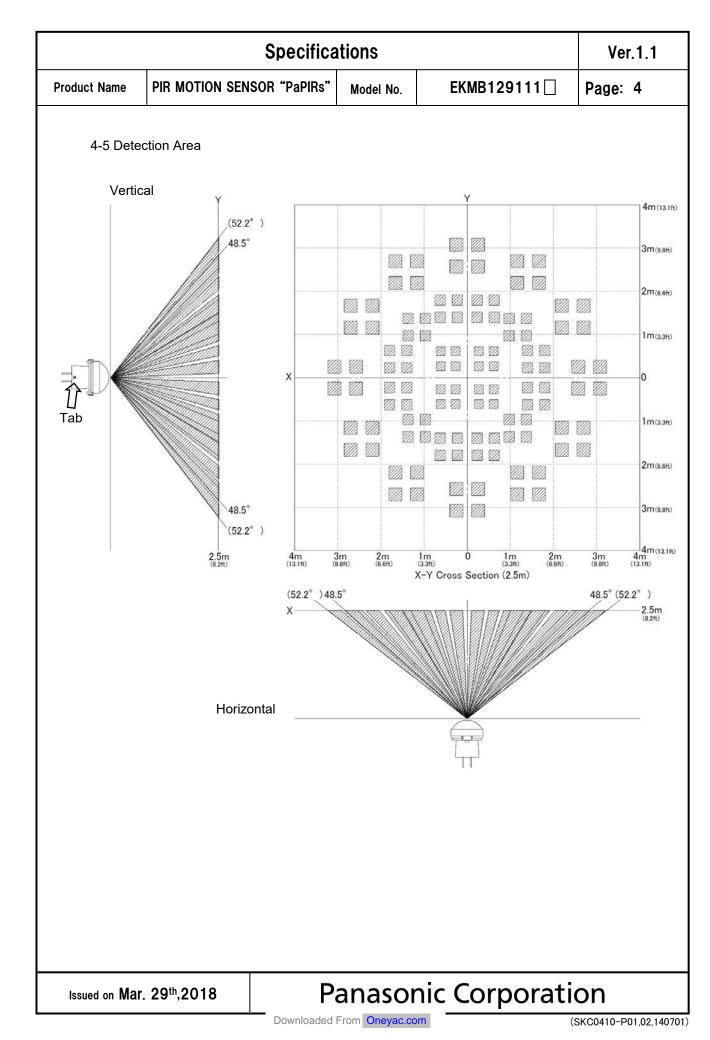
Conditions for Measuring: Ambient temperature=25°C(77°F)

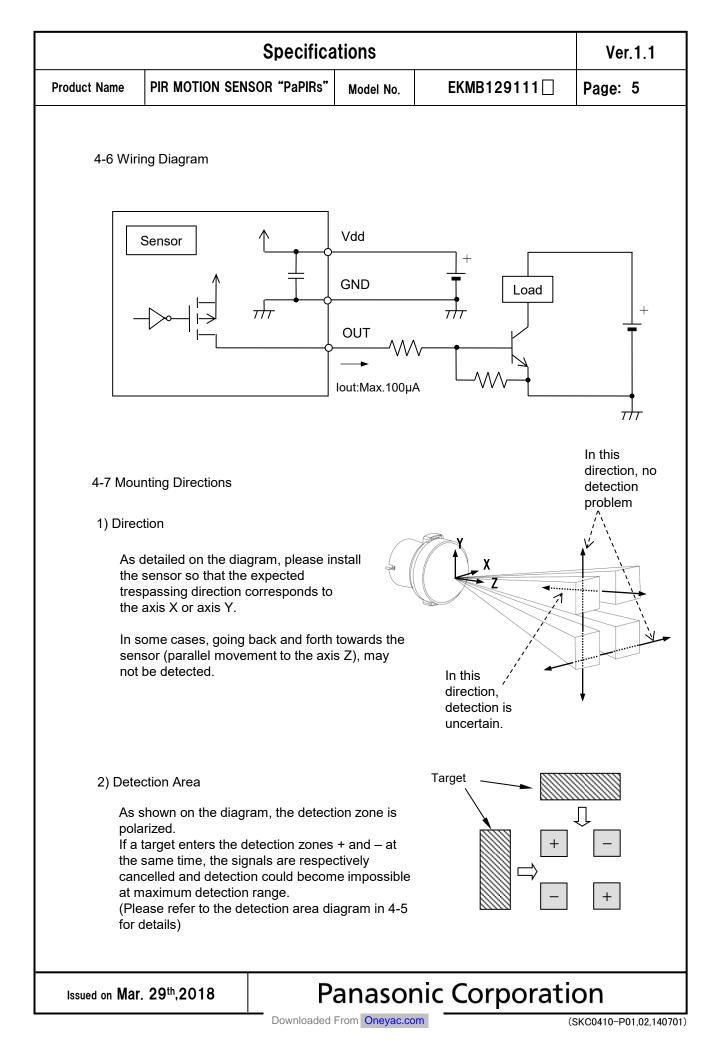
	Symbol	Min	Avg.	Max	Unit	Special mentior
Operating Voltage	Vdd	2.3	_	4.0	VDC	_
Electrical Current Consumption	Iw	_	1.9	3.0	μA	lout=0
Output Current	lout	—		100	μA	Vout≧Vdd−0
Output Voltage	Vout	Vdd-0.5			VDC	_
Circuit Stability Time (when voltage is applied)	Twu	_	25	210	S	_

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5. Safety Precautions

Head the following precautions to prevent injury or accidents.

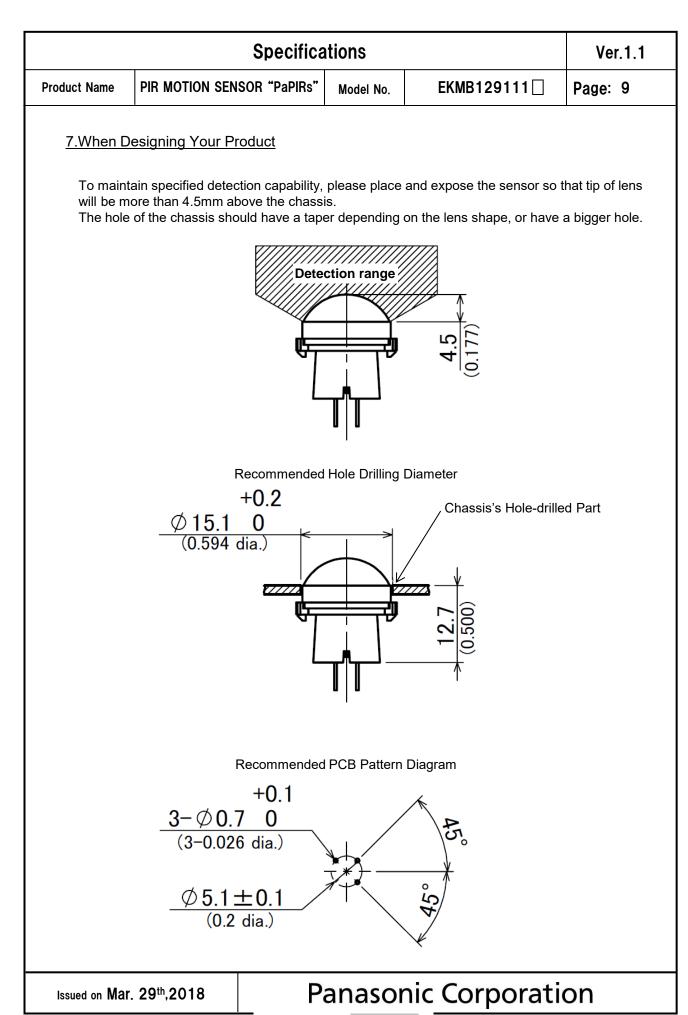
- Do not use these sensors under any circumstance in which the range of their ratings, environment conditions or other specifications are exceeded. Using the sensors in any way which causes their specifications to be exceeded may generate abnormally high levels of heat, emit smoke, etc., resulting in 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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<u>6.Operat</u>	ing Precautions			
6-1 Ba	sic Principles			
Howe heat	Rs is a pyroelectric infrared sensor f ever, it may not detect in the followin source. Besides, it could also detect ency and reliability of the system ma	g cases: lack c the presence o	of movement, no temperatu	a human body.
1) D	etecting heat sources other than the	human body, s	such as:	
b) \ b c) \$	small animals entering the detection When a heat source for example sur eam hit the sensor regardless inside Sudden temperature change inside c om HVAC, or vapor from the humidi	n light, incandes or outside the or around the de	detection area.	
2) D	ifficulty in sensing the heat source			
a b) N	Glass, acrylic or similar materials sta a correct transmission of infrared ray Ion-movement or quick movements Please refer to 4-1 for details about r	s, of the heat sou	rce inside the detection are	-
3) E	xpansion of the detection area			
	case of considerable difference in the ection area may be wider apart from			dy temperature,
4) N	Ialfunction / Detection error			
out	necessary detection signal might be put due to the nature of pyro-electric idition strictly, please implement the	element. Whe	n the application does not a	accept such
6-2 O	ptimal Operating Environment Cond	itions		
2) H 3) P 4) C 5) T	emperature : Please refer to the n lumidity Degree :15~85% Rh (Avo ressure : 86~106kPa overheating, oscillations, shocks can his sensor is not waterproof or dust	id condensatio cause the sens proof. Avoid use	n or freezing of this produc sor to malfunction. e in environments subject to	
	noisture, condensation, frost, contair void use in environments with corro	-	iust.	
,		-		

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6-3 Handl	ling Cautions				•
	ot solder with a sol sensor should be h	-	ove 350°C(662	2°F), or for more than 3 se	econds.
2) To ma	aintain stability of t	he product, alv	vays mount or	n a printed circuit board.	
	ot use liquids to wa rmance.	sh the sensor.	If washing flu	id gets through the lens, it o	can 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 ha duct.	nd contact with
,	n wiring the produc disturbances.	t, always use s	hielded cable	s and minimize the wiring le	ength to prevent
is hig	hly recommended e resistance : be	l.		age surge. Use of surge abs e value indicated in the ma	
Noise	e resistance : ±2	20V or less (So	luare waves w	noise can cause operating /ith a width of 50ns or 1µs) capacitor on the sensor's p	
	Operating errors can be caused by noise from static electricity, lightning, cell phone, amateur radio, broadcasting offices etc				
10) Deteo	ction performance	can be reduce	d by dirt on th	e 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	v or environme elerate the dete	ntal resistance erioration of el	uggested to prolong usage. e. Generally, high temperati ectrical components. Pleas le expected reliability and le	ures or high e consider both
•	13) Do not attempt to clean this product with any detergent or solvent, such as benzene or alcohol, as these can cause shape or color alterations.				
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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