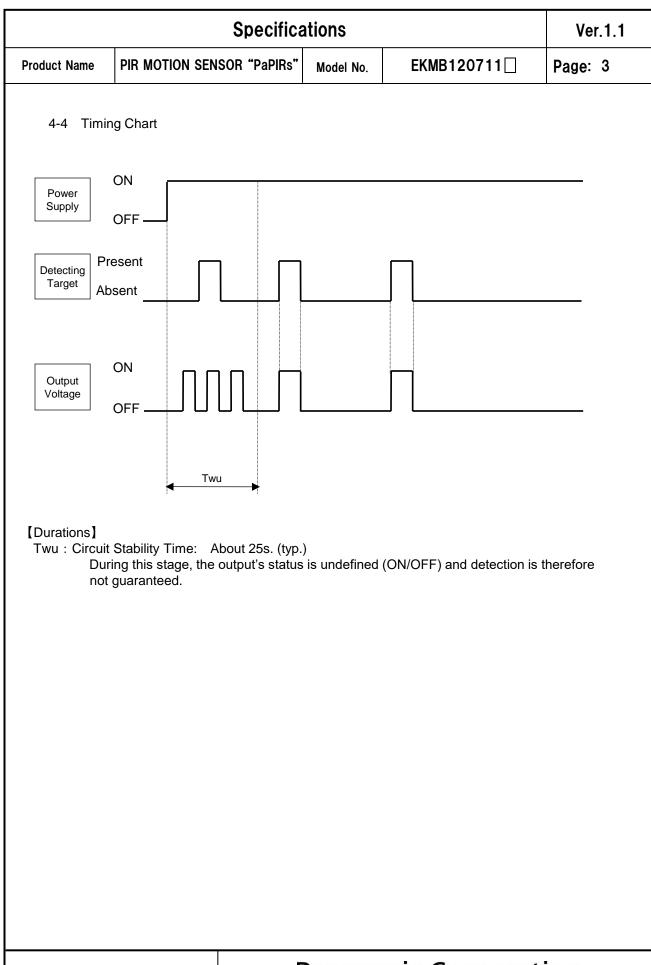


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4.Characte	eristics					
		formance r measuring: Am	bient te	emperature=	25°C(77°F) Opera	ting voltage=3VDC
	Temperature difference		Value		Conditions concerning the target	
(Not Det	e1) ection	8°C(14.4° F)	up to 7m 1.Movement speed: 1.0m/s 2.Target concept is human body			
Rar	nge	4°C(7.2° F)	up to 5m (Object size:Around 700×250mm		-	
Note1		ling on the temper on range will chan		lifference be	tween the target and	the surroundings,
				Value	Note	es
		Horizontal	90°	$(\pm45^{\circ})$		
Dete Ar	ction ea	Vertical	90°	$(\pm45^{\circ})$	Refer to the section 4-5.	
	I	Detection zones		32		
4-2 Ma	ximum R	ated Values				
			Value		llue	Unit
F	Power Supply Voltage		-0.3~4.5		VDC	
Usat	Usable Ambient Temperature		-20 \sim +60°C (-4 \sim +140° F) Do not use in a freezing or condensation environment		a freezing or	
	Storage Temperature		-20∼+70°C (-4∼+158° F)			

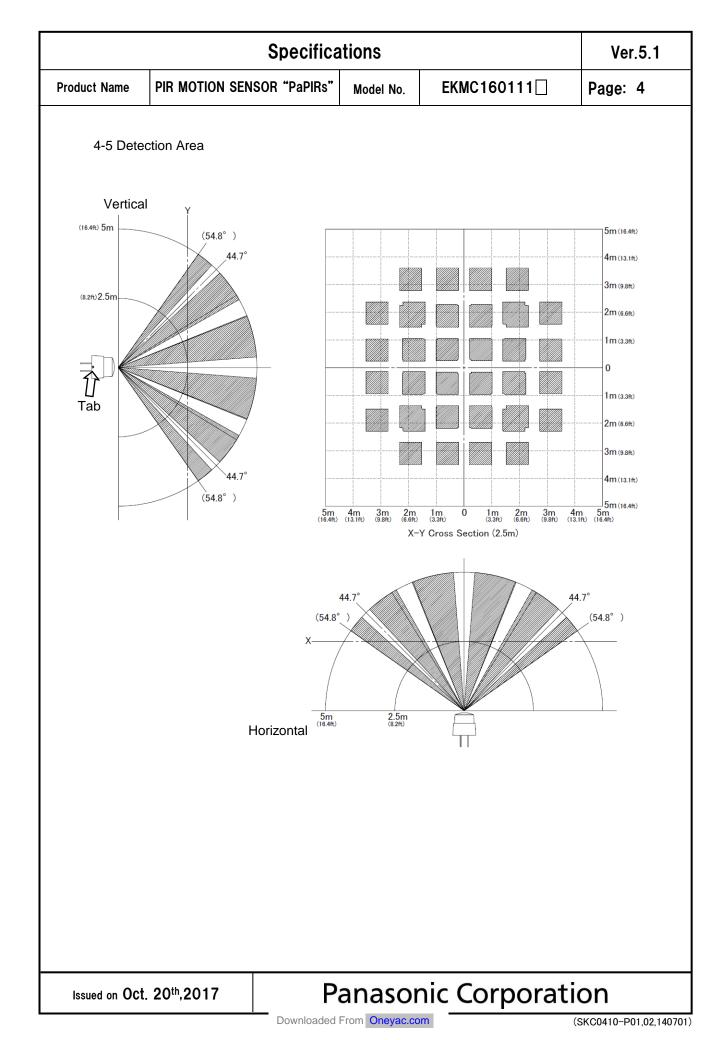
Conditions for Measuring: Ambient temperature:25°C(77°F)

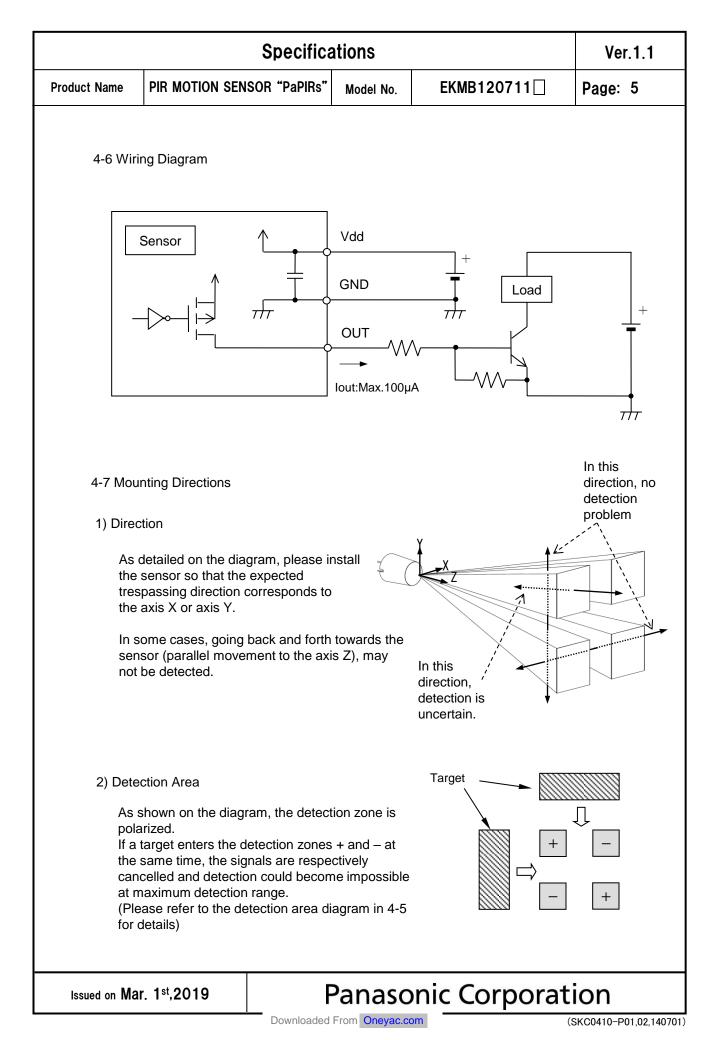
	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	2.3	_	4.0	VDC	—
Electrical Current Consumption	Iw	_	1.9	3.0	μA	lout=0
Output Current	lout	_	_	100	μA	Vout≧Vdd−0.5
Output Voltage	Vout	Vdd-0.5	_		VDC	—
Circuit Stability Time (when voltage is applied)	Twu	_	25	210	S	_

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5. Safety Precautions

Head the following precautions to prevent injury or accidents.

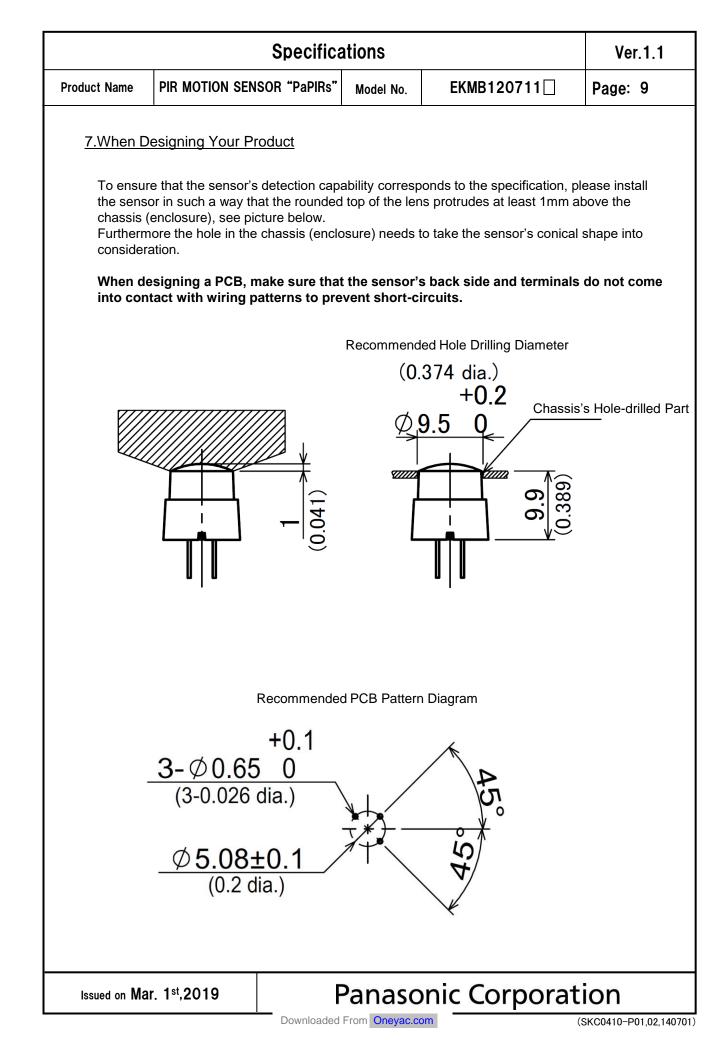
- Do not use these sensors under any circumstance in which the range of their ratings, environment conditions or other specifications are exceeded. Using the sensors in any way which causes their specifications to be exceeded may generate abnormally high levels of heat, emit smoke, etc., resulting in 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
 - $\boldsymbol{\cdot}$ Burglar and disaster prevention

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<u>6.Oper</u>	ating	Precautions					
6-1 I	Basic F	Principles					
Ho hea	wever, at sour	s a pyroelectric infrared sensor t , it may not detect in the followin rce. Besides, it could also detect / and reliability of the system ma	ng cases: lack of the presence	of movement, no temperatur of heat sources other than a	a human body.		
1)	Detec	ting heat sources other than the	human body,	such as:			
b) Whei beam) Sudd	I animals entering the detection n a heat source for example sur hit the sensor regardless inside len temperature change inside c HVAC, or vapor from the humidi	n light, incande e or outside the or around the d	e detection area.			
2)	Difficu	Ity in sensing the heat source					
 a) Glass, acrylic or similar materials standing between the target and the sensor may not allow a correct transmission of infrared rays, b) Non-movement or quick movements of the heat source inside the detection area. (Please refer to 4-1 for details about movement speed.) 							
3)	Expar	nsion of the detection area					
	In case of considerable difference in the ambient temperature and the human body temperature, detection area may be wider apart from the configured detection area.						
4)	4) Malfunction / Detection error						
Unnecessary detection signal might be outputted, on rare occasions, come from sudden outbreak output due to the nature of pyro-electric element. When the application does not accept such condition strictly, please implement the countermeasure by introducing pulse count circuit etc.							
6-2	Optim	al Operating Environment Cond	litions				
2) 3)	 Temperature : Please refer to the maximum rated values of 4-2. Humidity Degree :15~85% Rh (Avoid condensation or freezing of this product) Pressure : 86~106kPa Overheating, oscillations, shocks can cause the sensor to malfunction. 						
,	 5) This sensor is not waterproof or dustproof. Avoid use in environments subject to excessive moisture, condensation, frost, containing salt air or dust. 						
6)		use in environments with corror	-				

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	Specifications						
Product Name PIR MOTION SEN		SOR "PaPIRs"	Model No.	EKMB120711	Page: 8		
6-3 Ha	andling Cautions		·				
,	o not solder with a sol his sensor should be ł	-		2°F), or for more than 3 se	conds.		
2) To	o maintain stability of	he product, al	ways mount o	n a printed circuit board.			
	 Do not use liquids to wash the sensor. If washing fluid gets through the lens, it can reduce performance. 						
4) D	o not use a sensor aft	er it fell on the	ground.				
,	The sensor may be damaged by ± 200 volts of static electricity. Avoid direct hand contact with the pins and be very careful when operating the product.						
,	When wiring the product, always use shielded cables and minimize the wiring length to prevent noise disturbances.						
is	The inner circuit board could be destroyed by a voltage surge. Use of surge absorption elements is highly recommended. Surge resistance : below the power supply voltage value indicated in the maximum rated values section.						
N	Please use a stabilized power supply. Power supply noise can cause operating errors. Noise resistance : $\pm 20V$ or less (Square waves with a width of 50ns or 1µs) To reduce the effect of power supply noise, install a capacitor on the sensor's power supply pin.						
	Operating errors can be caused by noise from static electricity, lightning, cell phone, amateur radio, broadcasting offices etc						
10) D	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.						
n h tł	Operating "temperatures" and "humidity level" are suggested to prolong usage. However, they do not guarantee durability or environmental resistance. Generally, high temperatures or high humidity levels will accelerate the deterioration of electrical components. Please consider both the planned usage and environment to determine the expected reliability and length of life of the product.						
	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.						
er	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.						
	torage conditions Temperature: Humidity: Please use within 1 yea	30 ~ 75%	$+41 \sim +104^{\circ}$	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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