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	Ver.1.1				
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC260311				

4.Characteristics

4-1 Detection Performance

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

		Value	Conditions concerning the target	
※Detection Sensitivity		±0.22V≦	1. The temperature difference between the target and the surroundings should	
Detection Area	Horizontal	102° $(\pm 51^\circ$)	be superior to 4°C.(7.2° F) 2.Movement speed: 1.0m/s	
	Vertical	92° ($\pm46^\circ$)	3.Target concept is human body	
	Detection zones*	92	(Size:Around 700 \times 250mm) 4.Detection range is 12m.	

The detection range is about 12m however, depending on the target's speed and its temperature difference with the surroundings, detection can occur at a range superior to the value above. Therefore, before using, please confirm the detection characteristics under the usage environment.
 *Refer to the "detection area" diagram in section 4-5.

4-2 Maximum Rated Values

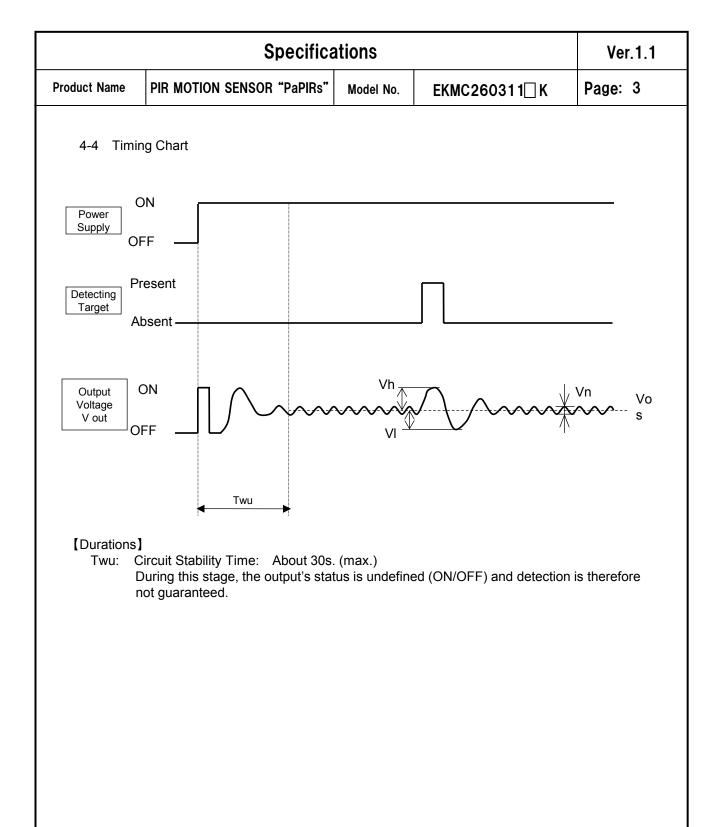
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20∼+60°C (-4∼+140° F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158° F)	

4-3 Electrical Characteristics

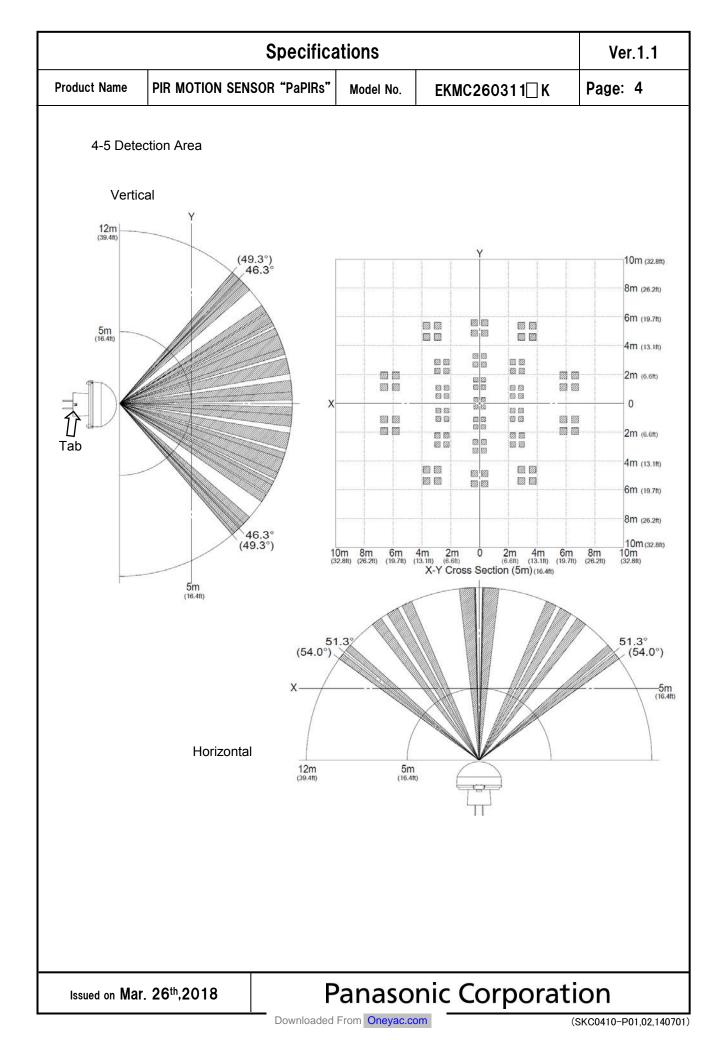
Conditions for Measuring: Ambient temperature: 25°C(77° F)

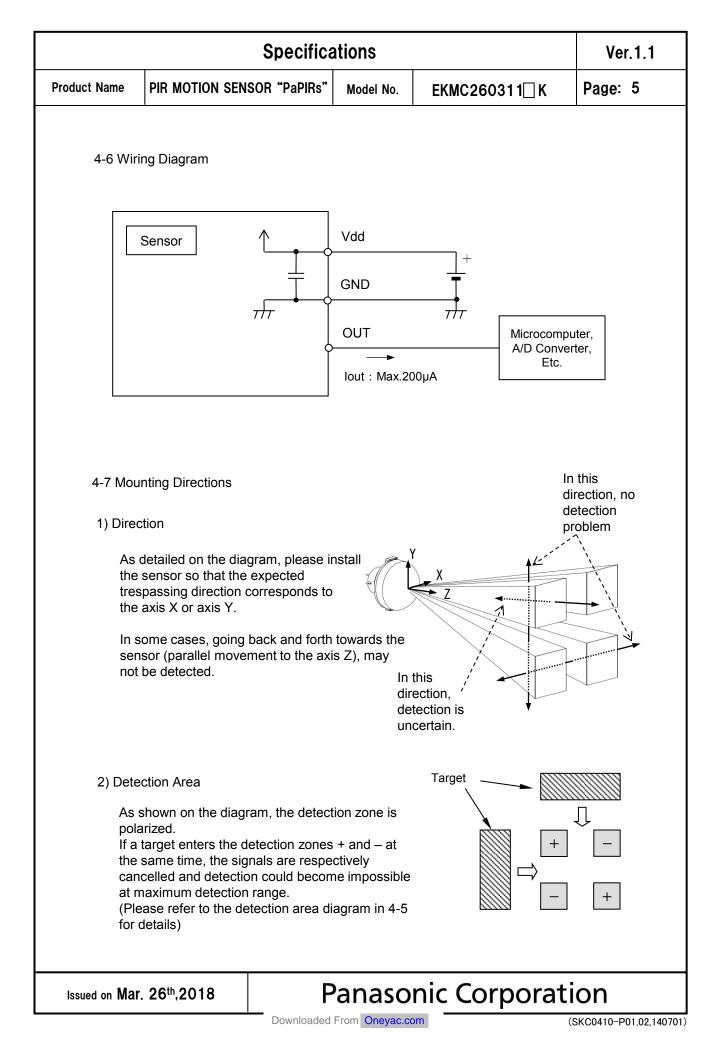
Subject		Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage		Vdd	3.0		5.5	VDC	—
Electrical Current Consumption		lw	—	170	350	μA	lout=0
Output Current	lout			200	μA	—	
Analog Output	High	Vh	1.9		_	V	—
Saturated Voltage	Low	VI	—	_	0.2	V	—
Output offset average vo	Output offset average voltage		1.0	1.1	1.2	V	Steady-state output voltage when not detecting.
Steady-state noise	Vn	—	80	150	mV	—	
Circuit Stability Time (when voltage is appli	Twu		_	30	s	_	

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5. Safety Precautions

Head the following precautions to prevent injury or accidents.

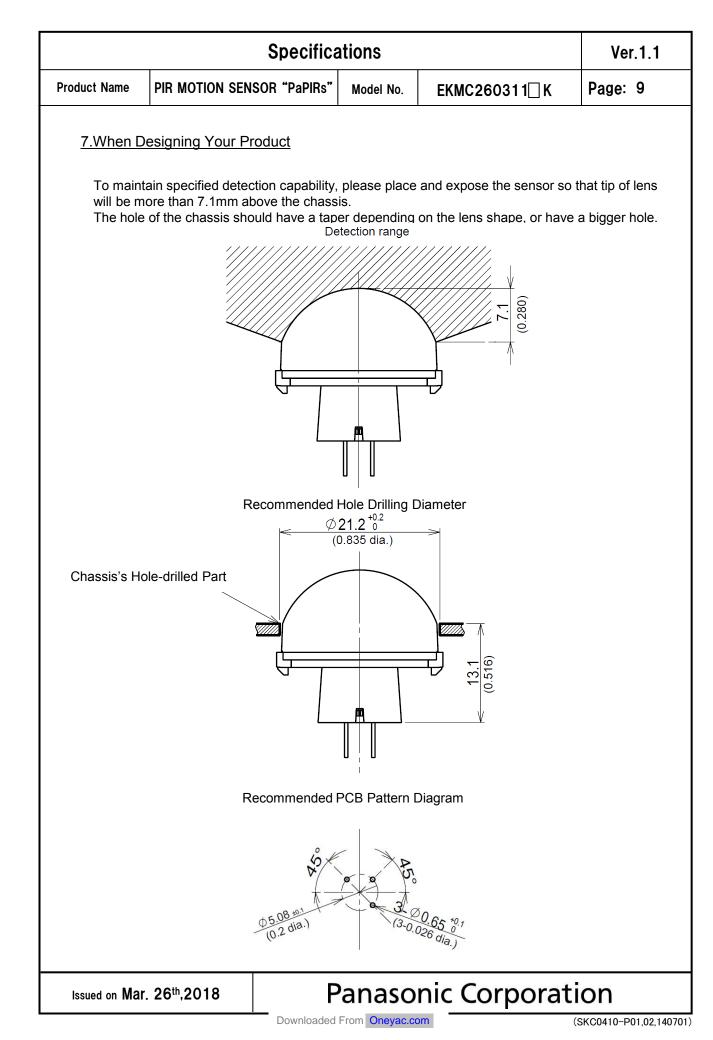
- Do not use these sensors under any circumstance in which the range of their ratings, environment conditions or other specifications are exceeded. Using the sensors in any way which causes their specifications to be exceeded may generate abnormally high levels of heat, emit smoke, etc., resulting in 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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Specifications					
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6.Operating	Precautions				
6-1 Basic P	rinciples				
However, heat sourc	a pyroelectric infrared sensor tha it may not detect in the following o ce. Besides, it could also detect th and reliability of the system may	cases: lack of e presence o	movement, no temperatur f heat sources other than a	a human body.	
1) Detect	ing heat sources other than the h	uman body, s	uch as:		
b) When beam c) Sudde	animals entering the detection are a heat source for example sun lig nit the sensor regardless inside or en temperature change inside or a VAC, or vapor from the humidifier	ght, incandes outside the c around the de	detection area.		
2) Difficul	ty in sensing the heat source				
a corr b) Non-m	, acrylic or similar materials stand ect transmission of infrared rays, novement or quick movements of e refer to 4-1 for details about mo	the heat sour	ce inside the detection are	-	
3) Expan	sion of the detection area				
	of considerable difference in the a n area may be wider apart from th			y temperature,	
4) Malfur	nction / Detection error				
output d	ssary detection signal might be ou ue to the nature of pyro-electric el n strictly, please implement the co	ement. When	the application does not a	iccept such	
6-2 Optima	al Operating Environment Condition	ons			
2) Humid	erature : Please refer to the max ity Degree :15~85% Rh (Avoid ire : 86~106kPa			:)	
5) This se	eating, oscillations, shocks can ca ensor is not waterproof or dustpro ire, condensation, frost, containing	of. Avoid use	in environments subject to	excessive	
6) Avoid	use in environments with corrosive	e gases.			

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6-3	6-3 Handling Cautions							
1)	 Do not solder with a soldering iron above 350°C(662°F), or for more than 3 seconds. This sensor should be hand soldered. 							
2)	To ma	aintain stability of t	he product, alv	vays mount or	n a printed circuit board.			
3)		t use liquids to wa mance.	sh the sensor.	If washing flu	id gets through the lens, it c	an reduce		
4)	Do no	t use a sensor afte	er it fell on the	ground.				
5)		ensor may be dan ns and be very cai			c electricity. Avoid direct hai duct.	nd contact with		
6)		wiring the produc disturbances.	t, always use s	hielded cable	s and minimize the wiring le	ngth to prevent		
7)	is hig	hly recommended e resistance : be			age surge. Use of surge abs e value indicated in the max			
8)	Noise	resistance : ±2	20V or less (Sc	uare waves w	noise can cause operating /ith a width of 50ns or 1µs) capacitor on the sensor's pe			
9)		iting errors can be broadcasting offic	-	ise from static	electricity, lightning, cell ph	one, amateur		
10)	Detec	tion performance	can be reduce	d by dirt on th	e lens, please be careful.			
11)		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.						
12)	12) 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.							
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)	4) 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.							
15)	15) Storage conditions Temperature: $+5 \sim +40^{\circ}C (+41 \sim +104^{\circ} F)$ Humidity: $30 \sim 75\%$ Please use within 1 year after products delivery.							
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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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