

(SKC0410-P01,02,140701)

	Ver.1.1			
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC260711			

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	90° ($\pm45^\circ$)	be superior to 4°C.(7.2° F) 2.Movement speed: 1.0m/s	
	Vertical	90° ($\pm45^\circ$)	3.Target concept is human body	
	Detection zones*	32	(Size:Around 700 \times 250mm) 4.Detection range is 5m.	

The detection range is about 5m 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

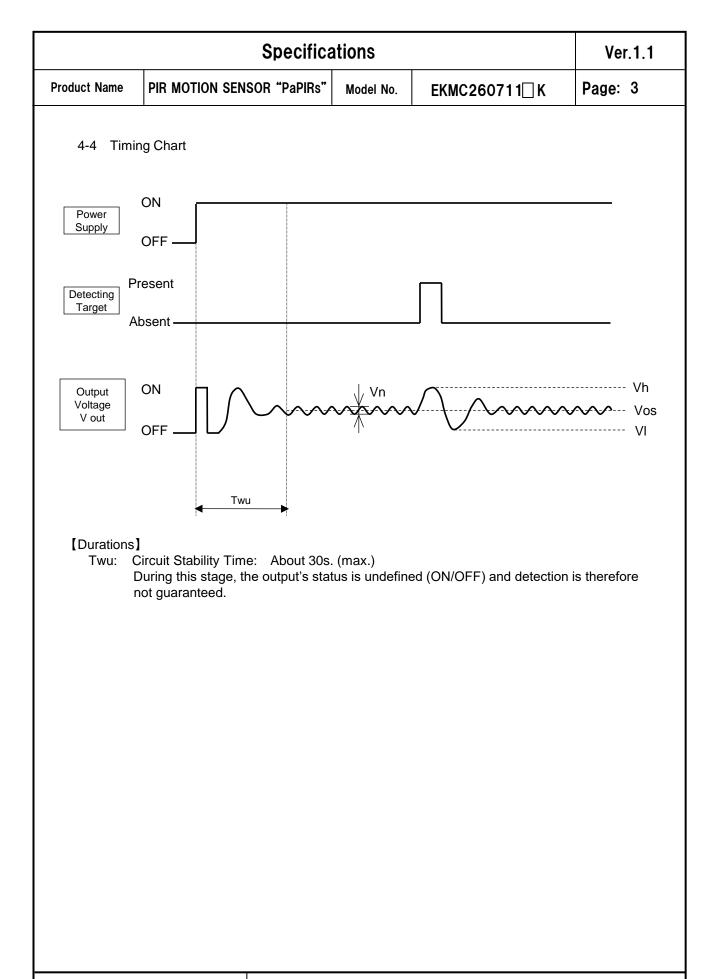
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20∼+60°C (-4∼+140° F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158° F)	

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 voltage		Vos	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 applied)		Twu		_	30	S	-

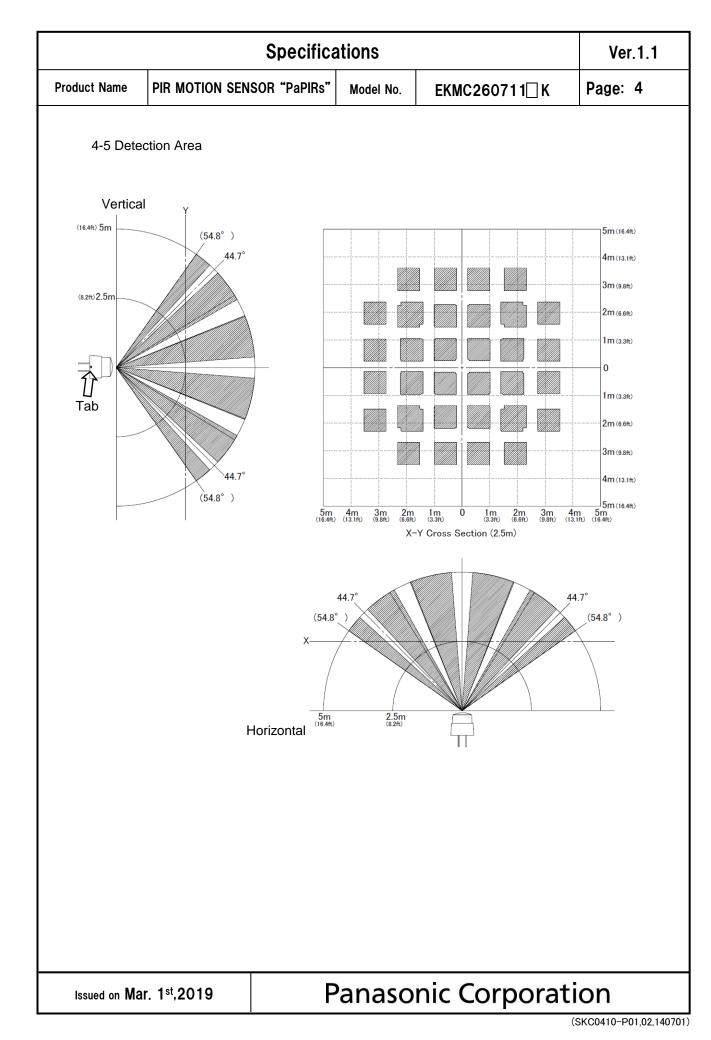
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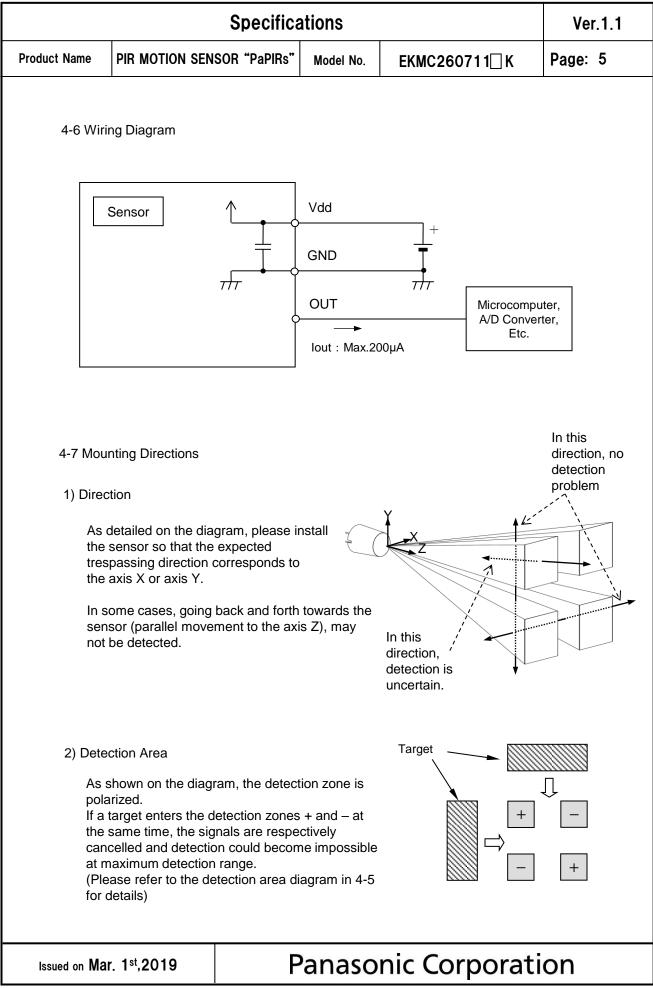


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Panasonic Corporation

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Specifications				
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC260711			

5. Safety Precautions

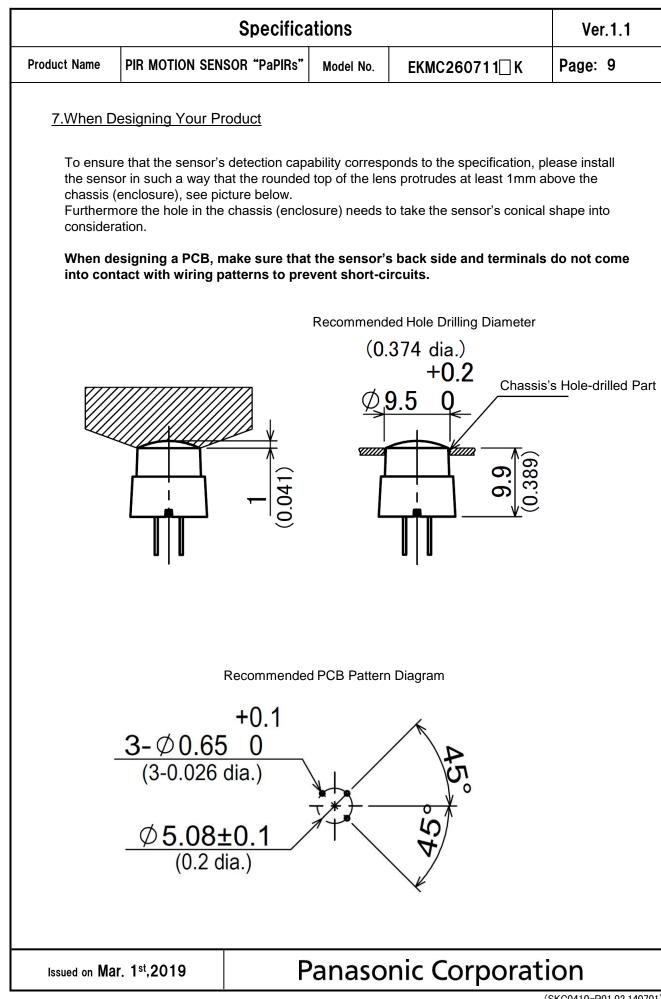
Head the following precautions to prevent injury or accidents.

- 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

	Specifications							
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC260711 K	Page: 7				
6.Operating	6.Operating Precautions							
6-1 Basic Pi	rinciples							
However, i heat sourc	a pyroelectric infrared sensor that it may not detect in the following e. Besides, it could also detect th and reliability of the system may	cases: lack of ne presence o	movement, no temperature f heat sources other than a	human body.				
1) Detecti	ng heat sources other than the h	uman body, s	uch as:					
b) When beam h c) Sudde	animals entering the detection an a heat source for example sun lig hit the sensor regardless inside o en temperature change inside or a VAC, or vapor from the humidifie	ght, incandes r outside the c around the de	detection area.					
2) Difficult	ty in sensing the heat source							
a corre b) Non-m	acrylic or similar materials stand ect transmission of infrared rays, lovement or quick movements of e refer to 4-1 for details about mo	the heat sour	ce inside the detection area	-				
3) Expans	sion of the detection area							
	of considerable difference in the a a area may be wider apart from th			temperature,				
4) Malfun	ction / Detection error							
output du	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 Optima	6-2 Optimal Operating Environment Conditions							
 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. This sensor is not waterproof or dustproof. Avoid use in environments subject to excessive moisture, condensation, frost, containing salt air or dust. Avoid use in environments with corrosive gases. 								

Issued on Mar. 1st,2019

	Specifications				
Product Name	PIR MOTION SEN	SOR "PaPIRs"	Model No.	EKMC260711	Page: 8
6-3 Han	lling Cautions				
	ot solder with a sol sensor should be l	-	ove 350°C (662	2°F), or for more than 3 se	conds.
2) To n	naintain stability of	the product, alv	ways mount or	n a printed circuit board.	
,	ot use liquids to wa ormance.	ash the sensor.	If washing flu	id gets through the lens, it c	an reduce
4) Do r	ot use a sensor aft	er it fell on the	ground.		
	sensor may be dar bins and be very ca	• •		c electricity. Avoid direct har duct.	nd contact with
,	en wiring the produce e disturbances.	t, always use s	shielded cable	s and minimize the wiring le	ngth to prevent
is h	 7) 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. 				
Nois	e resistance : ±	20V or less (So	quare waves w	noise can cause operating vith a width of 50ns or 1µs) capacitor on the sensor's po	
<i>,</i> ,	 Operating errors can be caused by noise from static electricity, lightning, cell phone, amateur radio, broadcasting offices etc 				
10) Dete) 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. 				
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.					
	 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. 				
envi	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.				
-	age conditions Temperature: Humidity: ase use within 1 yea	+5 ~ +40°C (- 30 ~ 75% ar after product		F)	
Issued on M	ar. 1 st ,2019	F	Panaso	nic Corporati	on



	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC260711 🗌 K	Page: 10

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.



ООО "ЛайфЭлектроникс"

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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