	Specifications						
Product Name	PIR MOTION SENSOR "I	PaPIRs"	Model No.	EKMC	261011 K	Page: 1	
	DTION SENSOR "PaPIRe eries • Flat square type (nalog output)			
	Lens Color	Мо	del Number				
	White	EKN	/IC2610111F	<			
	Black	EKN	/IC2610112	<			
	Pearl White	EKN	/IC2610113	<			
<u>3.Dimensi</u> Top VIE							
Side VI	− A <u>Ø0.45</u> (0.018 dia.)		$ \begin{array}{r} \underline{10.6} (0.418) \\ \underline{9.6} (0.379) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.363) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ \underline{9.2} (0.364) \\ $	(0.430)	a) The Markin shown by a Marking D E F G H I J K L b) Last-digit o (Ex:2020= c) Lot No. 1 st week of and further	A list shown below Model Number EKMB111011 EKMB121011 EKMB131011 EKMC161011 EKMC261011 EKMC261011 KMC261011 KMC261011 Model Number EKMC261011 KMC261011 KMC2021 KMC2021 KMC2021 KMC20203 KMC2030 KMC2030 KMC2030 KMC2030	
Bottom	VIEW				will continu	ue up to 53.	
General Toleranc	$\frac{\text{P.D.C.} \oint 5.08 \pm 0.2}{(0.2 \text{ dia.})}$ $\frac{\text{Vdd}}{\text{e} \pm 0.5 \text{mm} (\pm 0.020 \text{inch})}$		<u>8- ∅ 1.5 ±(</u> (0.059 dia - <u>OUT</u> _ <u>GND</u>		SECTI	ON A-A	
			1				
Panas	onic Corpo	ratio	n –	proved by			
				ecked by			
	Issued on Apr. 1 st ,2021		Des	signed by		KC0410-P01,02,14070	

	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC261011	Page: 2

4.Characteristics

4-1 Detection Performance

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

		Value	Conditions concerning the target
(Note 1) Detection Sensitivity		±0.22V≦	1.The temperature difference between the target and the surroundings should
	Horizontal	90°(±45°)	be superior to 4°C.(7.2°F) 2.Movement speed: 1.0m/s
Detection Area	Vertical	90°(±45°)	3.Target concept is human body (Size:Around 700 \times 250mm)
	Detection zones	40	4.Detection range is 5m.

Note 1: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.

4-2 Maximum Rated Values

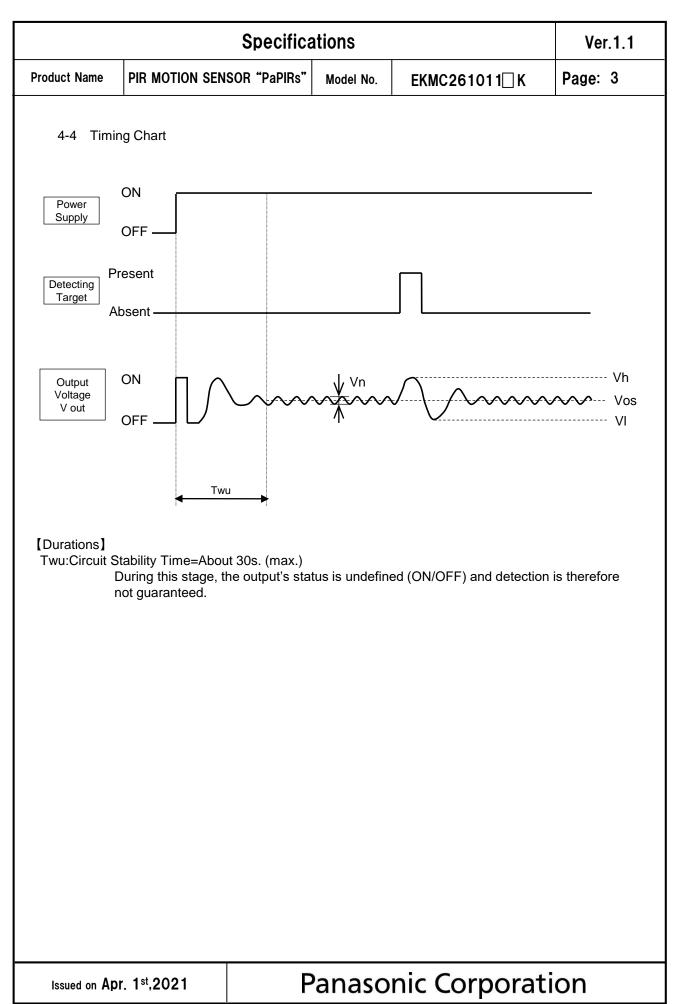
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20∼+60°C (-4∼+140°F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158°F)	

4-3 Electrical Characteristics

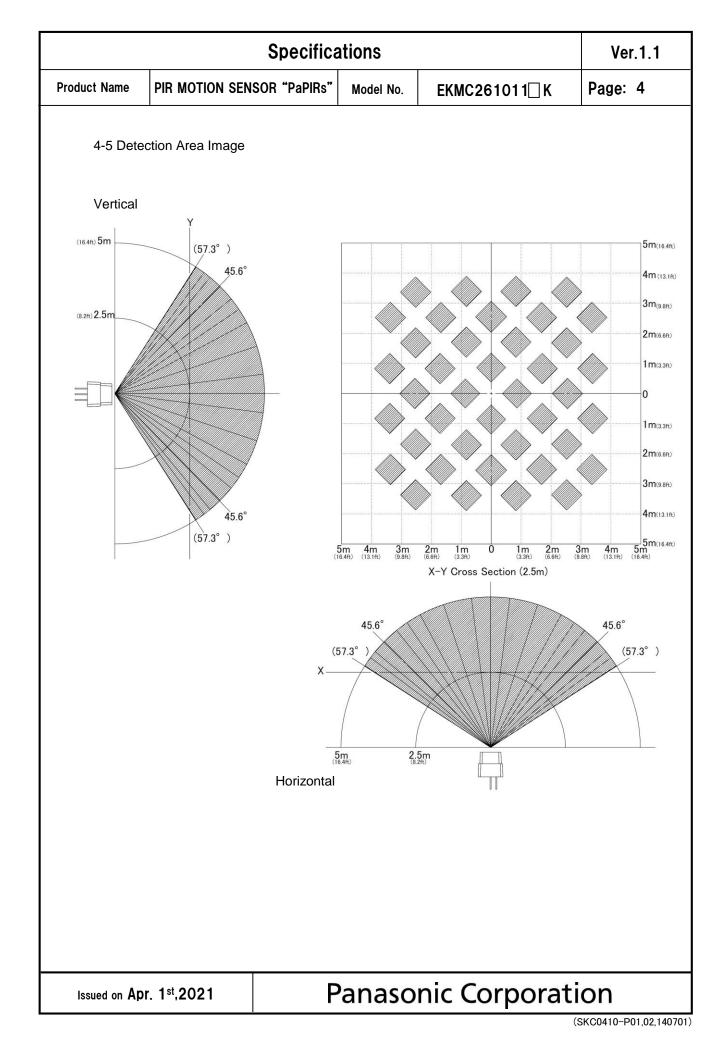
Conditions for Measuring: Ambient temperature: 25°C(77°F)

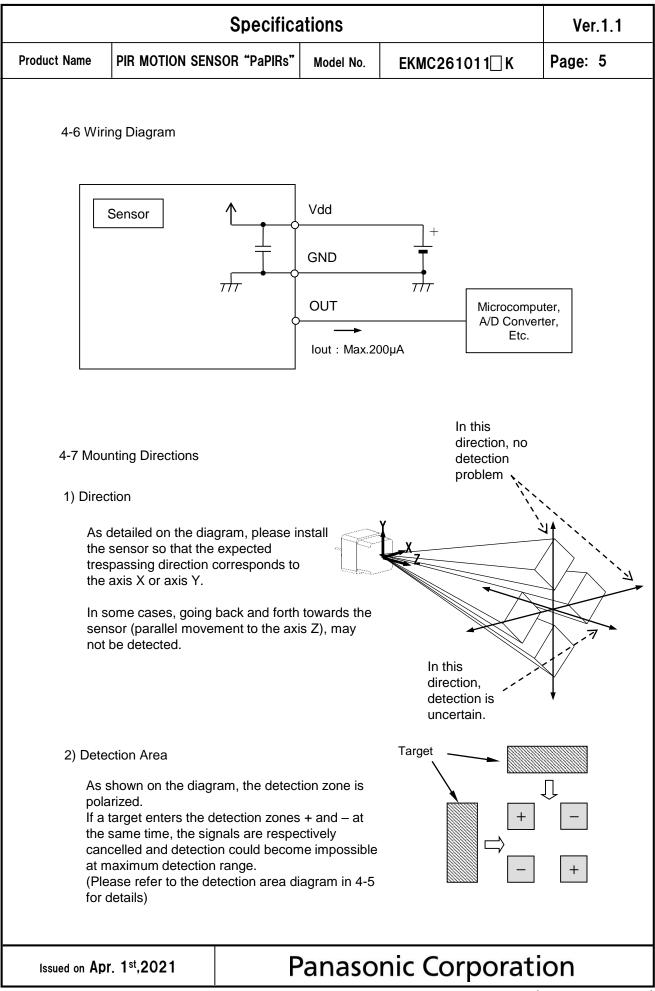
Subject	Symbol	Min	Avg.	Max	Unit	Special mention	
Operating Voltage	Vdd	3.0	_	5.5	VDC	—	
Electrical Current Consu	lw	_	170	350	μA	lout=0	
Output Current	Output Current			_	200	μA	_
Analog Output	High	Vh	1.9	_	_	V	—
Saturated Voltage	Low	VI		_	0.2	V	_
Output offset average vo	Output offset average voltage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

Issued on Apr. 1st,2021



(SKC0410-P01,02,140701)





⁽SKC0410-P01,02,140701)

Specifications					
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC261011 K				
				•	

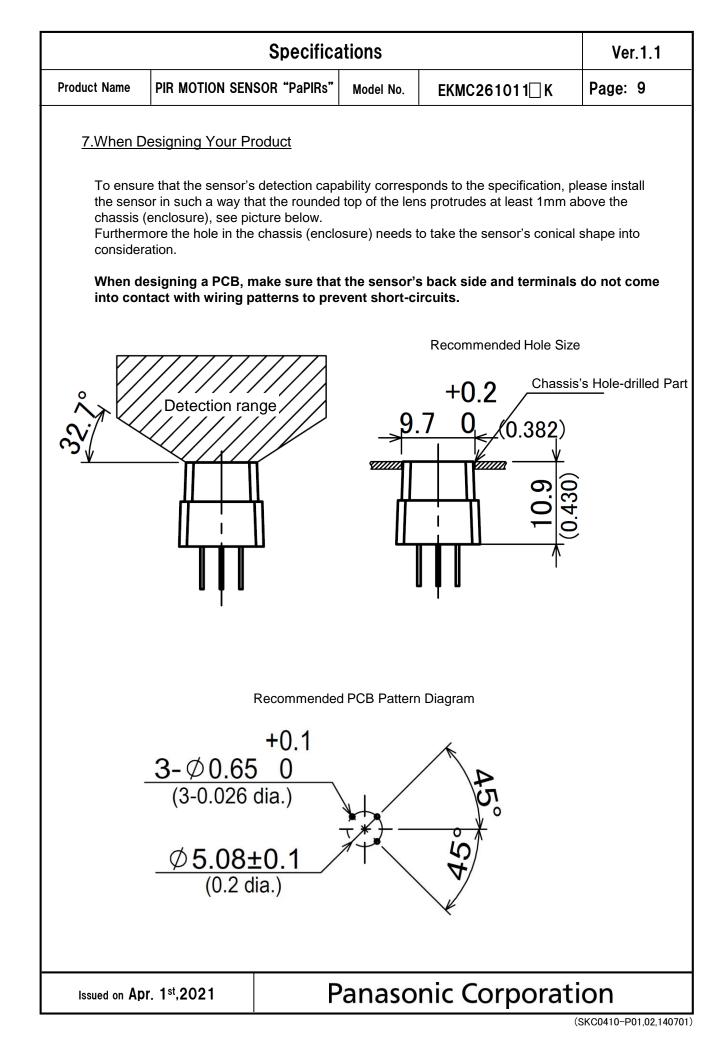
5. Safety Precautions

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

Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC261011 K Page:	7					
6.Operating Precautions						
6-1 Basic Principles						
PaPIRs is a pyroelectric infrared sensor that detects variations in infrared rays. However, it may not detect in the following cases: lack of movement, no temperature change heat source. Besides, it could also detect the presence of heat sources other than a human Efficiency and reliability of the system may vary depending on actual operating conditions:						
1) Detecting heat sources other than the human body, such as:						
 a) small animals entering the detection area b) When a heat source for example sun light, incandescent lamp, car headlights etc, or str beam hit the sensor regardless inside or outside the detection area. c) Sudden temperature change inside or around the detection area caused by hot or cold was from HVAC, or vapor from the humidifier, etc. 						
2) Difficulty 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) Expansion of the detection area						
In case of considerable difference in the ambient temperature and the human body temper detection area may be wider apart from the configured detection area.	rature,					
4) Malfunction / Detection error						
Unnecessary detection signal might be outputted, on rare occasions, come from sudden o output due to the nature of pyro-electric element. When the application does not accept su condition strictly, please implement the countermeasure by introducing pulse count circuit	ich					
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 excessiv moisture, condensation, frost, containing salt air or dust. 	/e					
6) Avoid use in environments with corrosive gases.						

	Specifications						
Product Na	ime	PIR MOTION SEN	SOR "PaPIRs"	Model No.	EKMC261011 K	Page: 8	
6-3 ⊢	landlir	ng Cautions					
		t solder with a sol ensor should be h	-	ove 350°C (662	2°F), or for more than 3 sec	onds.	
2)	To ma	aintain stability of t	he product, alv	ways mount or	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)	Do no	t use a sensor afte	er it fell on the	ground.			
		ensor may be dan ns and be very ca			c electricity. Avoid direct ha duct.	nd contact with	
		wiring the produc disturbances.	t, always use s	shielded cable	s and minimize the wiring le	ength to prevent	
7)	is hig	hly recommendec e resistance : be	Ι.		age surge. Use of surge abs le value indicated in the ma	-	
	Noise	resistance : ±2	20V or less (Sc	quare waves w	noise can cause operating vith 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)	Detection performance can be reduced by dirt on the 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.						
	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.						
	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 ~ +40°C (+41 ~ +104°F) Humidity: 30 ~ 75% Please use within 1 year after products delivery. 						
Issued	on Apr	r. 1 st ,2021	F	anaso	nic Corporati	ion	



	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC261011	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.

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 EKMB4391113K
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