Reference Specifications						Ver.1.2
Product Name	PIR MOTION SENSOR "P	aPIRs"	Model No.	EKM	Page: 1	
	OTION SENSOR "PaPIRs eries∙Flat square type (1		alog output)		I
	Lens Color	Mod	del Number			
	White		C2610111			
	Black	EKM	C2610112	<		
	Pearl White	EKM	C2610113	<		arking
<u>3.Dimens</u> Top VI						<u><u>a</u> <u>a</u> <u>b</u> <u>b</u> <u>b</u> <u>b</u> <u>c</u>)</u>
Side V	IEW 	ia.) 1	9.6 9.2	(0.418) (0.379) (0.364) (0.364)	a) The Marking shown by a Marking D E F G H I J K L N b) Last-digit	ng which was a list shown belo <u>KMB111011</u> EKMB111011 EKMB121011 EKMB131011 EKMC161011 EKMC261011 C
Bottom	NIEW	(0.4			c) Lot No. 1 st week o and furthe	0,2021=1,…) f Jan. will be 01 r No. of 02,03, ue up to 53.
	<u>P.D.C. Ø 5.08 ±</u> (0.2 dia.) ⊻	0.2 Vdd	OU GNI	_	SECTIO	DN A-A
General Toleran	ce ± 0.5 mm (± 0.020 inch)					
Dana	sonic Corner	ation	Apr	proved b	у	
rand	sonic Corpor	auo	Ch	ecked b	у	
	Issued on Dec. 1 st ,2021			signed k	ve	

	Ver.1.2			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC261011 K	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
Detection Area	Horizontal	90°(±45°)	be superior to 4°C.(7.2°F) 2.Movement speed: 1.0m/s
	Vertical	90°(±45°)	3.Target concept is human body (Size:Around 700×250mm)
	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

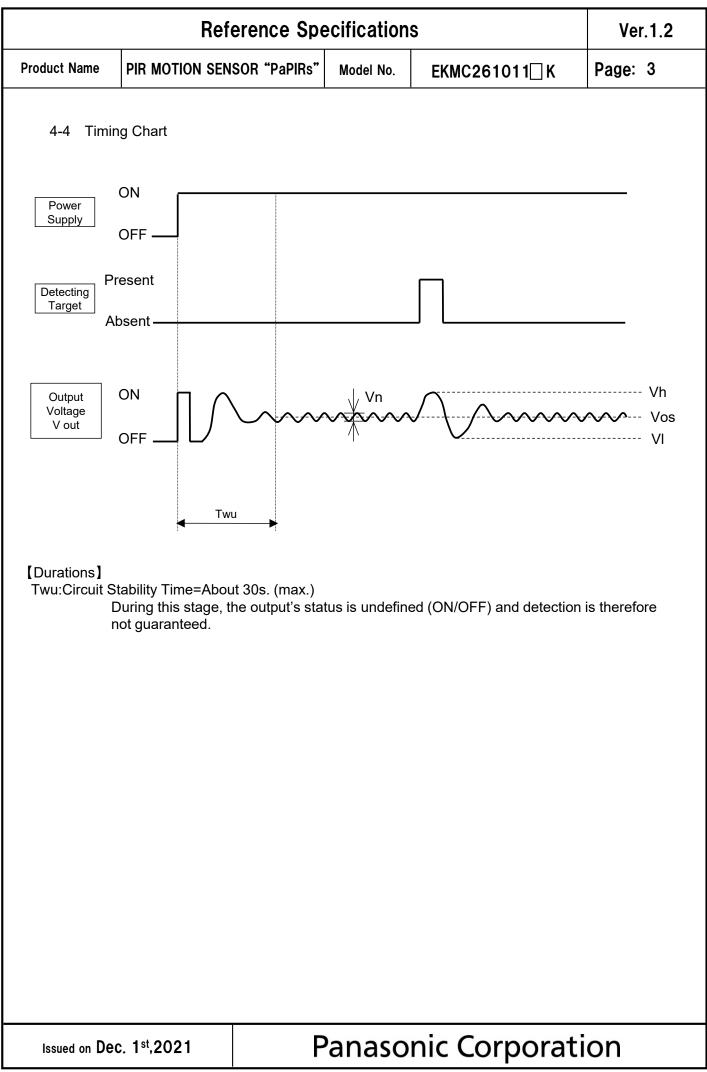
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20 \sim +60°C (-4 \sim +140°F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158°F)	

4-3 Electrical Characteristics

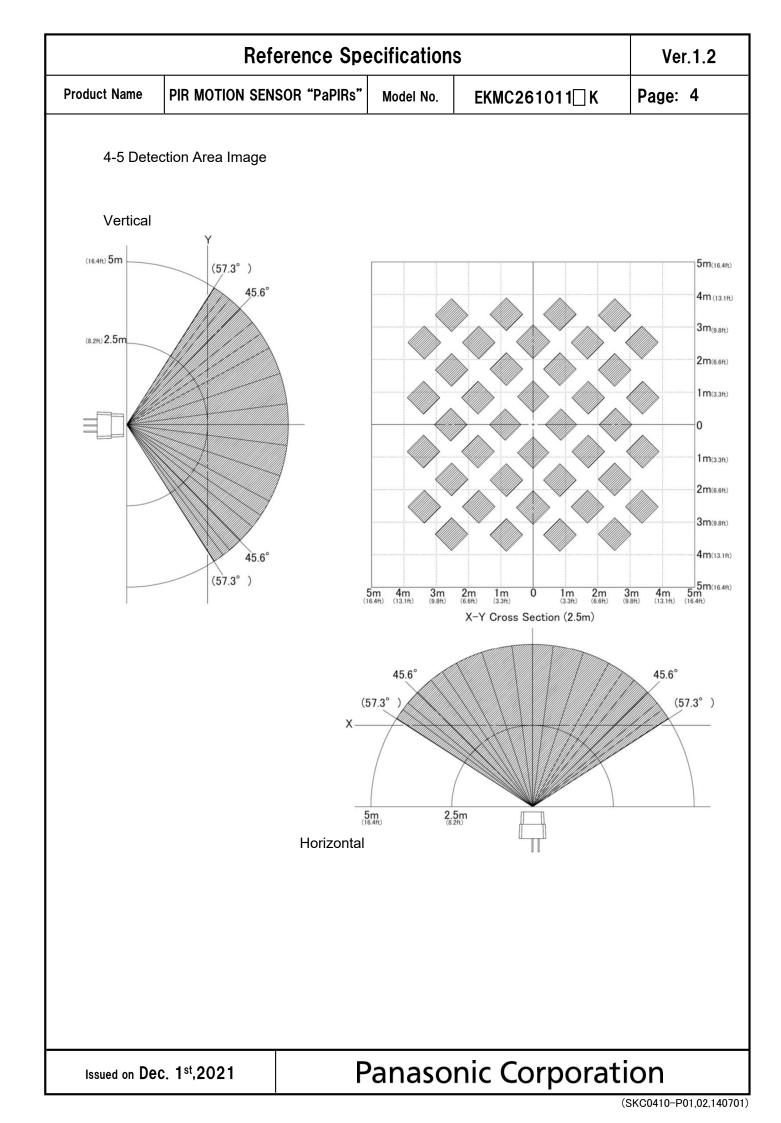
Conditions for Measuring: Ambient temperature: 25°C(77°F)

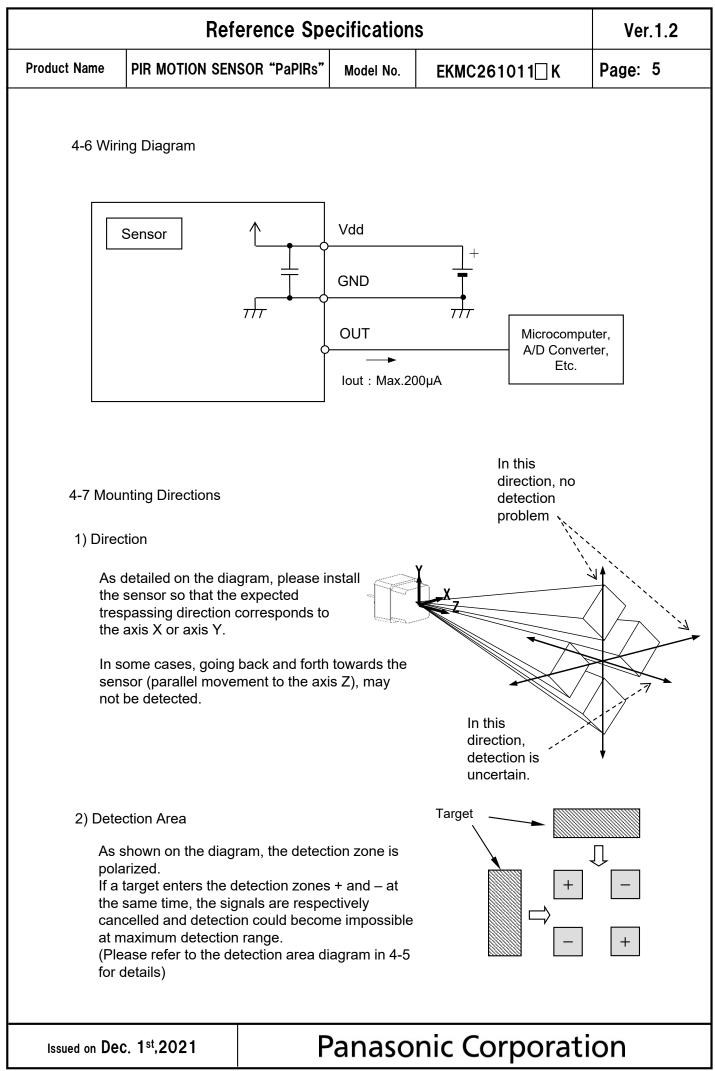
Subject		Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage		Vdd	3.0		5.5	VDC	_
Electrical Current Consumption		lw		170	350	μA	lout=0
Output Current		lout			200	μA	_
Analog Output	High	Vh	1.9			V	_
Saturated Voltage	Low	VI	_	_	0.2	V	—
Output offset average voltage		Vos	1.0	1.1	1.2	V	Steady-state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

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⁽SKC0410-P01,02,140701)





⁽SKC0410-P01,02,140701)

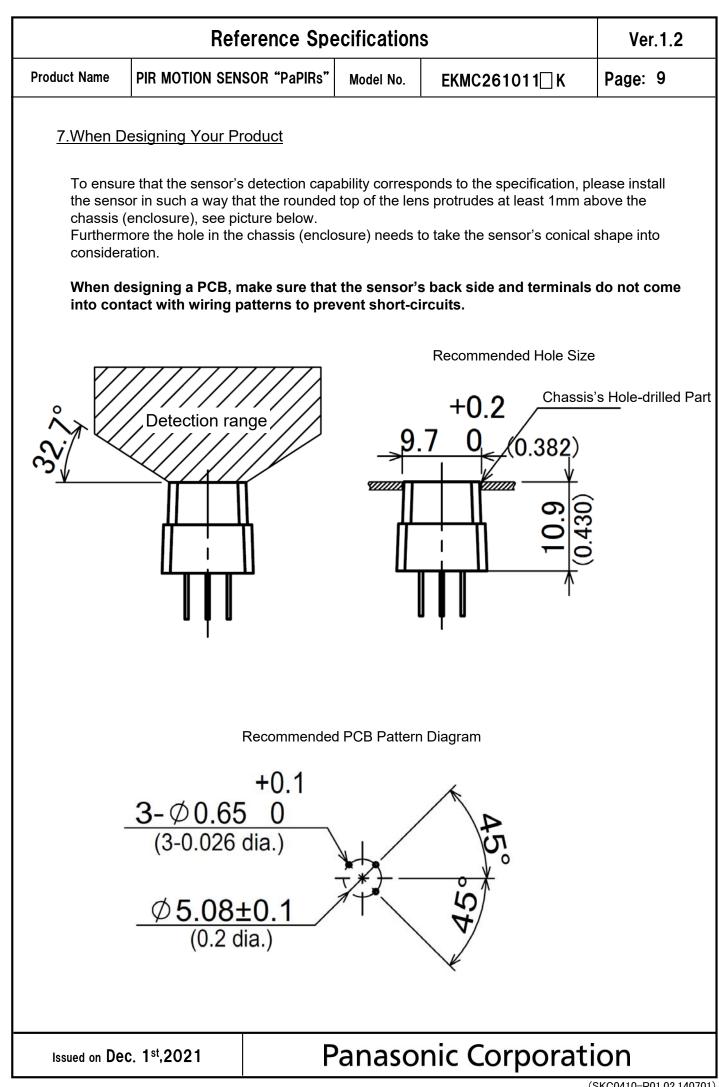
	Reference Specifications					
Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC261011 K Pag						
 Head the feature of the second seco	Precautions ollowing precautions to prevent injuse these sensors under any circunent conditions or other specificate e sensors in any way which cause e abnormally high levels of heat, e and possibly causing an accident of the possibly causing an	imstance in w tions are exce es their specif emit smoke, effective ducts of the h re subject to n vironment and heating, smol afety and mair ancy or break y referring to t the connector unforeseen pr e, etc., resulti	hich the range of their ratio eeded. fications to be exceeded m tc., resulting in damage to ighest quality and reliability natural deterioration, and d d conditions of use. Contin ke or fire. Always use the p netenance measures to avo c-down. the connector wiring diagra- is connected properly. roblems in operation, gene ng in damage to the circuit	ay the y. urability of ued use product in id am,		
		reuiting open	-circuiting and temperature			

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	Reference Spe	ecification	S	Ver.1.2		
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC261011 K	Page: 7		
6.Operating	Precautions					
6-1 Basic F	Principles					
However, heat sour	s a pyroelectric infrared sensor th it may not detect in the following ce. Besides, it could also detect to and reliability of the system may	g cases: lack o the presence	of movement, no temperatur of heat sources other than a	human body.		
1) Detect	ing heat sources other than the h	າuman body, s	such as:			
b) Whe beam c) Sudd	I animals entering the detection a n a heat source for example sun hit the sensor regardless inside len temperature change inside or HVAC, or vapor from the humidifi	light, incande or outside the r around the d	detection area.			
2) Difficu	Ity in sensing the heat source					
a cor b) Non-	 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) Expan	sion of the detection area					
	of considerable difference in the on area may be wider apart from			y temperature,		
4) Malfun	action / Detection error					
output o	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	al Operating Environment Conditi	ions				
2) Humid 3) Pressu	 2) Humidity Degree :15~85% Rh (Avoid condensation or freezing of this product) 3) Pressure : 86~106kPa 					
5) This se moistu	 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. 					
o) Avoid	use in environments with corrosiv	ve yases.				

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	Ref	erence Spe	ecification	s	Ver.1.2	
Product Name	PIR MOTION SEN	SOR "PaPIRs"	Model No.	EKMC261011	Page: 8	
6-3 Handliı	ng Cautions					
,	ot solder with a sol sensor 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.		
,	ot use liquids to wa mance.	ash the sensor.	If washing flu	id gets through the lens, it	can reduce	
4) Do no	ot 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.	and contact with	
	wiring the produc disturbances.	t, always use s	shielded cable	s and minimize the wiring l	ength to prevent	
is hig	hly recommended e resistance : be	Ι.		age surge. Use of surge ab e value indicated in the ma		
Noise	resistance : ±2	20V or less (So	uare waves w	noise can cause operating /ith a width of 50ns or 1µs) capacitor on the sensor's p		
, ,	ating errors can be broadcasting offic	-	ise from static	electricity, lightning, cell pl	none, amateur	
10) Detec	ction performance	can be reduce	d by dirt on th	e lens, please be careful.		
				lease avoid adding weight r reduced performance.	or impacts that	
not g humi	uarantee durability dity levels will acc lanned usage and	y or environme elerate the det	ntal resistance erioration of e	uggested to prolong usage e. Generally, high temperat lectrical components. Pleas he expected reliability and le	ures or high se consider both	
	ot attempt to clean ese can cause sha	-		ent or solvent, such as ben	zene or alcohol,	
enviro	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.					
т. Н	ge conditions emperature: umidity: se use within 1 yea	30 ~ 75%)		
Issued on De(c. 1 st ,2021	F	Panaso	nic Corporat	ion	



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Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC261011	Page: 10

8.Special Notice

This document is only for reference, so in the case of actual consideration and adoption, please order the latest specification sheet.

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.