	Ver.1.2				
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC76	1011 🗌 K	Page: 1
	DTION SENSOR "PaPIRs" eries Flat square type (170μA /	Digital output	/ Low sensiti	ivity)	1
		lodel Number			
		(MC7610111			
	Black Eł	KMC7610112	<		
	Pearl White Ek	KMC7610113	<		arking
<u>3.Dimensi</u> Top VII				a)	0 b) 45 c)
Side VI	Ø 0.45 (0.018 dia.)	9.6 9.2 A	$(0.315) \xrightarrow{(0.218)}{(0.328)} (0.328) \xrightarrow{(0.228)}{(0.430)} (0.430) \xrightarrow{(0.738)}{(0.430)} (0.430) \xrightarrow{(0.738)}{(0.430)} (0.430) \xrightarrow{(0.738)}{(0.738)} (0.738) \xrightarrow{(0.738)}{(0.7430)} (0.738) \xrightarrow{(0.738)}{(0.738)} (0.738) \xrightarrow{(0.738)}{(0.738)} (0.738) \xrightarrow{(0.738)}{(0.738)} (0.738) \xrightarrow{(0.738)}{(0.738)} (0.738) \xrightarrow{(0.738)}{(0.738)} (0.738) \xrightarrow{(0.738)}{(0.738)} (0.738) (0.738$	shown by a Marking D E F G H I J K L M N	EKMB111011 EKMB121011 EKMB131011 EKMC161011 EKMC261011 EKMC261011 K
Bottom	VIEW			and furthe	of Jan. will be 01, r No. of 02,03, ue up to 53.
General Tolerand	$\frac{P.D.C. \oint 5.08 \pm 0.2}{(0.2 \text{ dia.})}$ $\frac{V \text{dd}}{V \text{dd}}$ $\frac{V \text{dd}}{V \text{dd}}$		_	SECTIO	DN A-A
		I			
Panas	sonic Corporatio	on ⊢	proved by		
	•	Ch	ecked by		
	Issued on Dec. 1 <sup>st</sup> ,2021	De	signed by		

Reference Specifications					
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	ЕКМС761011 🗌 К	Page: 2	
4.Characte	eristics				

#### 4-1 Detection Performance

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

	Temperature difference	Value	Conditions concerning the target
<sup>(Note1)</sup> Detection Range	16°C(28.8°F)	up to 7m	1.Movement speed: 1.0m/s
	8°C(14.4°F)	up to 5m	2.Target concept is human body (Object size:Around 700 $ imes$ 250mm)

Note1:Depending on the temperature difference between the target and the surroundings, detection range will change.

		Value	Notes
	Horizontal	90°(±45°)	
Detection Area	Vertical	90°(±45°)	Refer to the section 4-5.
	Detection zones	40	

#### 4-2 Maximum Rated Values

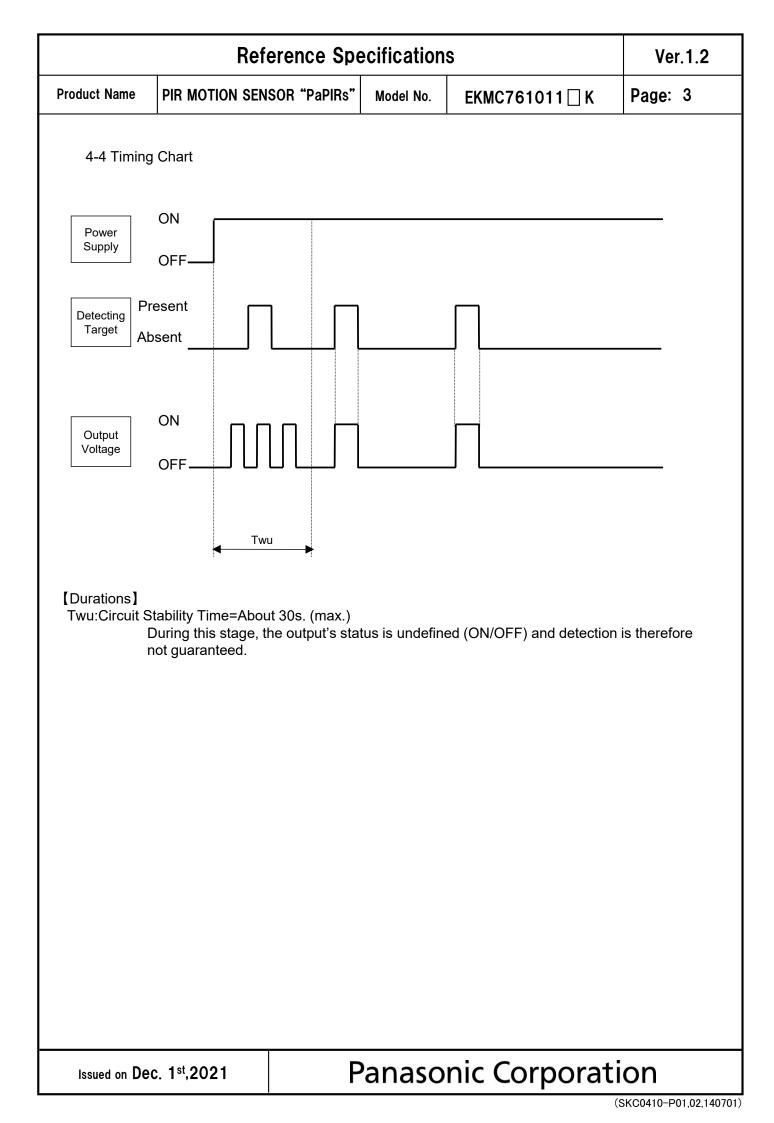
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20 $\sim$ +60°C (-4 $\sim$ +140°F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158°F)	

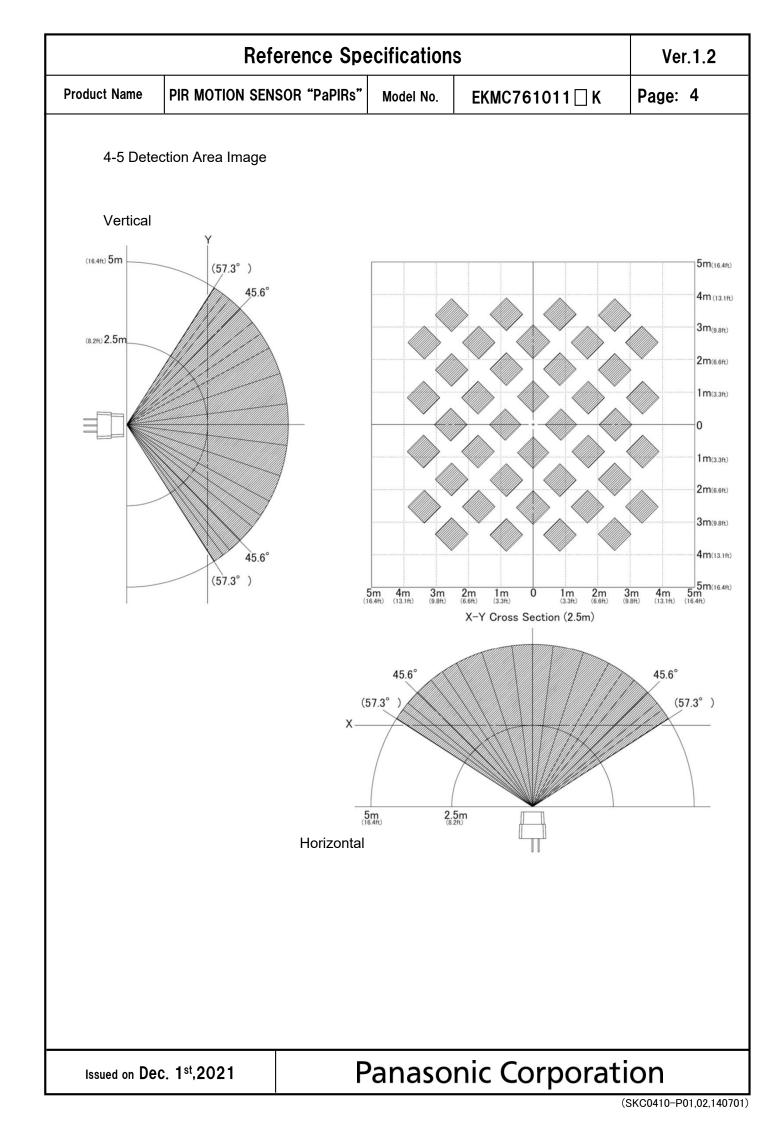
### 4-3 Electrical Characteristics

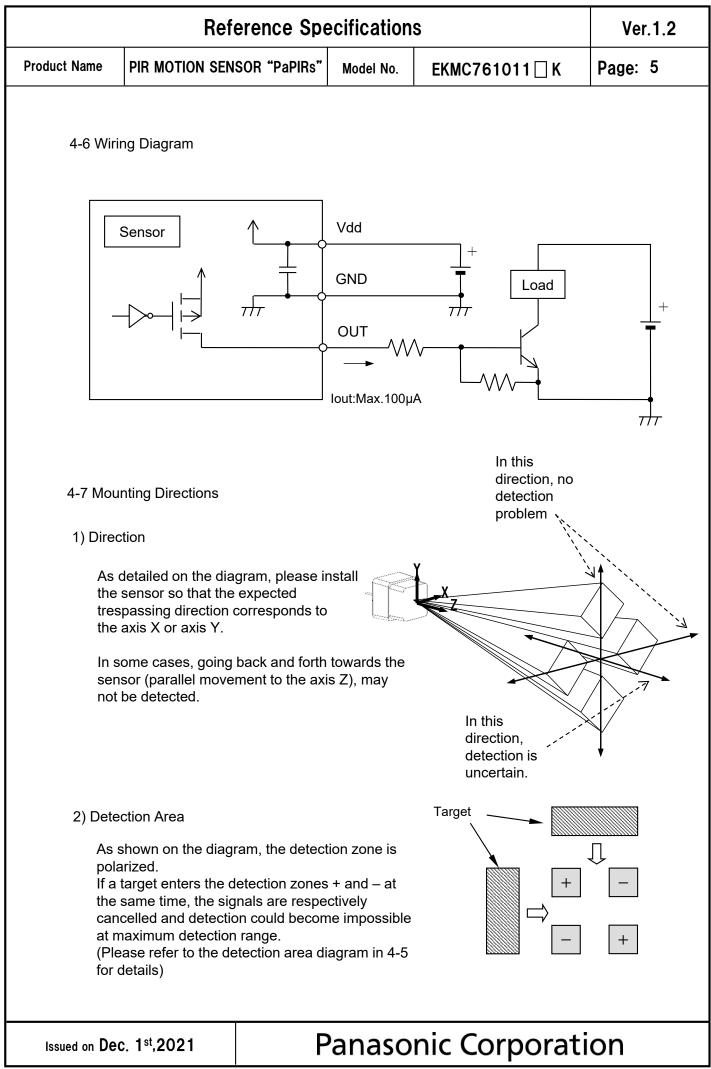
Conditions for Measuring: Ambient temperature=25°C(77°F)

	Symbol	Min	Avg.	Max	Unit	Special mentior
Operating Voltage	Vdd	3.0	—	6.0	VDC	—
Electrical Current Consumptior	n Iw	_	170	300	μA	lout=0
Output Current	lout	_	_	100	μA	Vout≧Vdd−0.
Output Voltage	Vout	Vdd-0.5	_	_	VDC	_
Circuit Stability Time (when voltage is applied)	Twu	_	_	30	s	_

Issued on Dec. 1<sup>st</sup>,2021







<sup>(</sup>SKC0410-P01,02,140701)

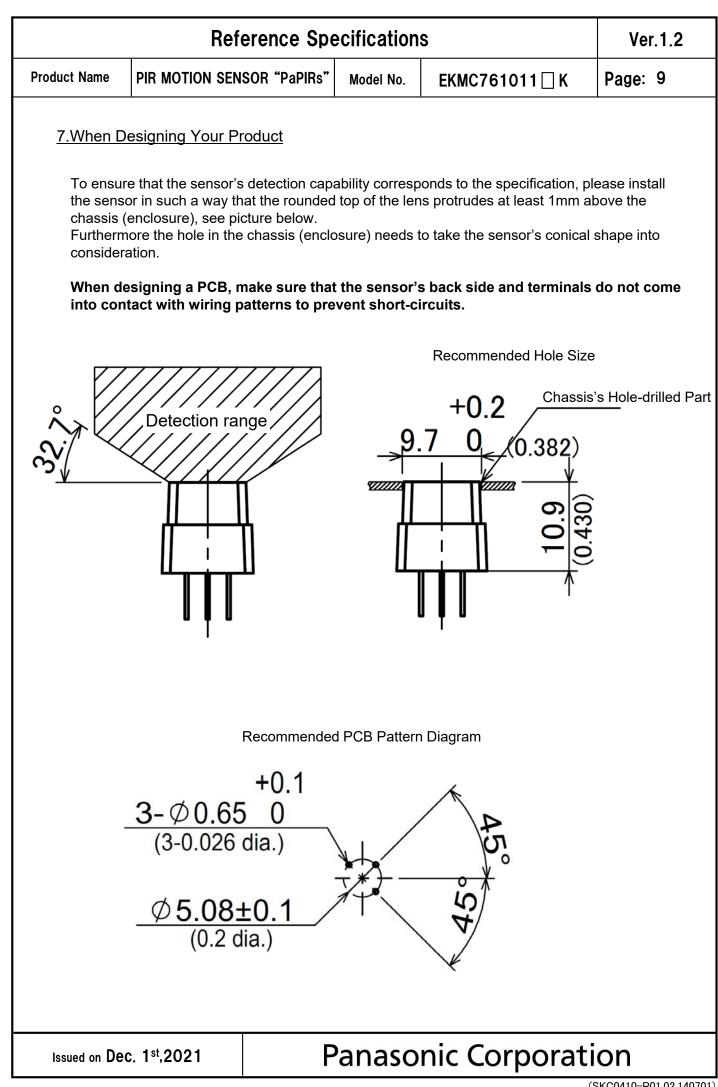
	<b>Reference Specifications</b>						
Product Name	roduct Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC761011 🗌 K						
<ul> <li>Head the for</li> <li>1) Do not usenvironing using the generated circuitry</li> <li>2) Our come Neverther a product after successful conjunct accident</li> <li>3) Before conspecificat Mistakes abnormatication and the second context accident</li> </ul>	Precautions ollowing precautions to prevent injust use these sensors under any circu- nent conditions or other specificat e sensors in any way which cause e abnormally high levels of heat, e and possibly causing an accident of the possibly causing an accident appany is committed to making pro- eless, all electrical components are ct will depend on the operating envel th deterioration could lead to over- ion with proper fire-prevention, sa s, reduction in product life expect connecting, check the pin layout by ations diagram, etc., to verify that is a made in connection may cause us ally high levels of heat, emit smoke	imstance in w tions are exce es their speci- emit smoke, e ducts of the h re subject to r vironment and heating, smol afety and main ancy or break y referring to the connector unforeseen p e, etc., resulti	which the range of their ratin eeded. fications to be exceeded m etc., resulting in damage to highest quality and reliability natural deterioration, and d d conditions of use. Contin ke or fire. Always use the p ntenance measures to avoit k-down. the connector wiring diagra r is connected properly. roblems in operation, gene ing in damage to the circuit	ay the /. urability of ued use roduct in d am,			
If this se possible	nodes of sensors include short-cin nsor is to be used in equipment w effects of these failures on the eq g protection circuits or protection o	/here safety is quipment con	s a prime consideration, ex	amine the			
•	Safety equipments and de∖	vices					

Issued on Dec. 1<sup>st</sup>,2021

	Reference Specifications					
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	ЕКМС761011 🗌 К	Page: 7		
6.Operating	Precautions					
6-1 Basic I	Principles					
However, heat sour	s a pyroelectric infrared sensor th , it may not detect in the following ce. Besides, it could also detect t / 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	ting heat sources other than the h	numan body, s	such as:			
b) Whe beam c) Sudo	I animals entering the detection a n a heat source for example sun hit the sensor regardless inside den 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-	<ul> <li>a) Glass, acrylic or similar materials standing between the target and the sensor may not allow a correct transmission of infrared rays,</li> <li>b) Non-movement or quick movements of the heat source inside the detection area.</li> <li>(Please refer to 4-1 for details about movement speed.)</li> </ul>					
3) Expan	sion of the detection area					
	of considerable difference in the on area may be wider apart from			y temperature,		
4) Malfur	nction / 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				
<ol> <li>Temperature : Please refer to the maximum rated values of 4-2.</li> <li>Humidity Degree : 15~85% Rh (Avoid condensation or freezing of this product)</li> <li>Pressure : 86~106kPa</li> <li>Overheating, oscillations, shocks can cause the sensor to malfunction.</li> <li>This sensor is not waterproof or dustproof. Avoid use in environments subject to excessive moisture, condensation, frost, containing salt air or dust.</li> </ol>						
	re, condensation, frost, containin use in environments with corrosiv	•	<b>ມວ</b> ເ.			

Issued on Dec. 1<sup>st</sup>,2021

	Ref	ference Spe	ecification	S	Ver.1.2
Product Name	PIR MOTION SEM	NSOR "PaPIRs"	Model No.	ЕКМС761011 🗌 К	Page: 8
6-3 Han	dling Cautions				
,	not solder with a so s sensor should be	-	ove 350°C (662	2°F), or for more than 3 sec	onds.
2) To	maintain stability of	the product, alv	ways mount or	n a printed circuit board.	
,	not use liquids to wa formance.	ash the sensor.	lf washing flu	id gets through the lens, it o	can reduce
4) Do	not use a sensor af	ter it fell on the	ground.		
	e sensor may be dar pins and be very ca			c electricity. Avoid direct ha duct.	nd contact with
•	en wiring the produces.	ct, always use s	shielded cable	s and minimize the wiring le	ength to prevent
is l	nighly recommende rge resistance : b	d.		age surge. Use of surge abs e value indicated in the max	
Noi	se resistance : 土	20V or less (Sc	uare waves w	noise can cause operating vith a width of 50ns or 1µs) capacitor on the sensor's p	
, ,	erating errors can be io, broadcasting offi	-	ise from static	electricity, lightning, cell ph	ione, amateur
10) De	tection performance	e can be reduce	d by dirt on th	e lens, please be careful.	
				lease avoid adding weight or reduced performance.	or impacts that
no hu the	t guarantee durabilit midity levels will acc	y or environme celerate the det	ntal resistance erioration of e	uggested to prolong usage. e. Generally, high temperatu lectrical components. Pleas ne expected reliability and le	ures or high e consider both
	not attempt to clear hese can cause sha	-		ent or solvent, such as ben	zene or alcohol,
env	rironments containin	ig corrosive gas	s, dust, salty a	ironments. As well, avoid st ir etc. It could cause perforr llic connectors could be dar	mance
,	rage conditions Temperature: Humidity: ease use within 1 ye	30 <b>~</b> 75%		·)	
Issued on [	)ec. 1 <sup>st</sup> ,2021	F	anaso	nic Corporati	ion



	Ver.1.2			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	ЕКМС761011 🗌 К	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.