	Specifica	tions		Ver.1.1
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC761011	K Page: 1
VZ s	OTION SENSOR "PaPIRs" eries · Flat square type (170μΑ / Ι	Digital output /	′ Low sensitivity)	
2.Model N				
		lodel Number	,	
		(MC7610111) (MC7610112)		
		(MC7610112)		
<u>3.Dimens</u> Top VI				
		}	show	$\underbrace{\begin{array}{c} N \\ a \end{array}}_{a} \underbrace{\begin{array}{c} 0 \\ b \end{array}}_{b} \underbrace{\begin{array}{c} 45 \\ c \end{array}}_{c}$ Marking which was n by a list shown belo $\underbrace{\begin{array}{c} ark ing \\ D \end{array}}_{c} \underbrace{\begin{array}{c} Model \\ KMB111011 \end{array}}$
Side V	EW ϕ 0.45 (0.018 dia.) 11 (0.433)	10.6 (0.418) 9.6 (0.379) 9.2 (0.364) 9.2 (0.364) $10.5 (0.364) $		E EKMB121011□ F
Bottom	VIEW		and	No. eek of Jan. will be 01, further No. of 02,03, continue up to 53.
	$\frac{P.D.C. \oint 5.08 \pm 0.2}{(0.2 \text{ dia.})}$	$\frac{3-\phi 1.5 \pm 0}{(0.059 \text{ dia})}$.)	ECTION A-A
General Tolerand	ce ±0.5mm (±0.020inch)	I	1	
Pana	sonic Corporatio	on 🦳	proved by ecked by	
	Issued on Apr. 1 st ,2021	Des	signed by	

	Ver.1.1						
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC761011 K						

4.Characteristics

4-1 Detection Performance

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

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

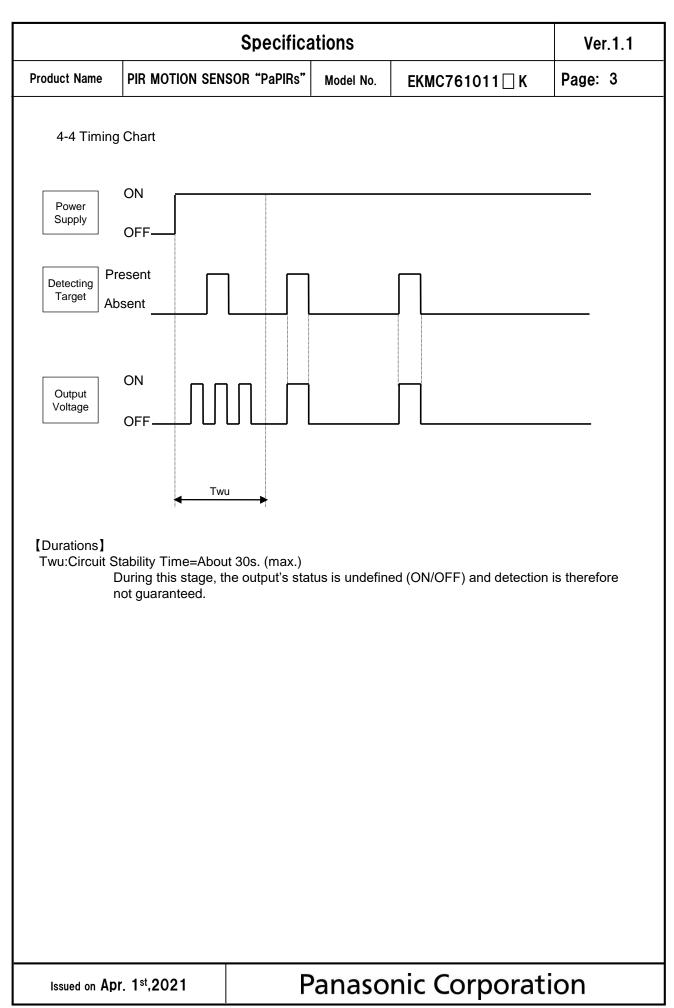
	Value	Unit
Power Supply Voltage	-0.3~7.0	VDC
Usable Ambient Temperature	-20 \sim +60°C (-4 \sim +140°F) Do not use in a freezing or condensation environment	
Storage Temperature	-20∼+70°C (-4∼+158°F)	

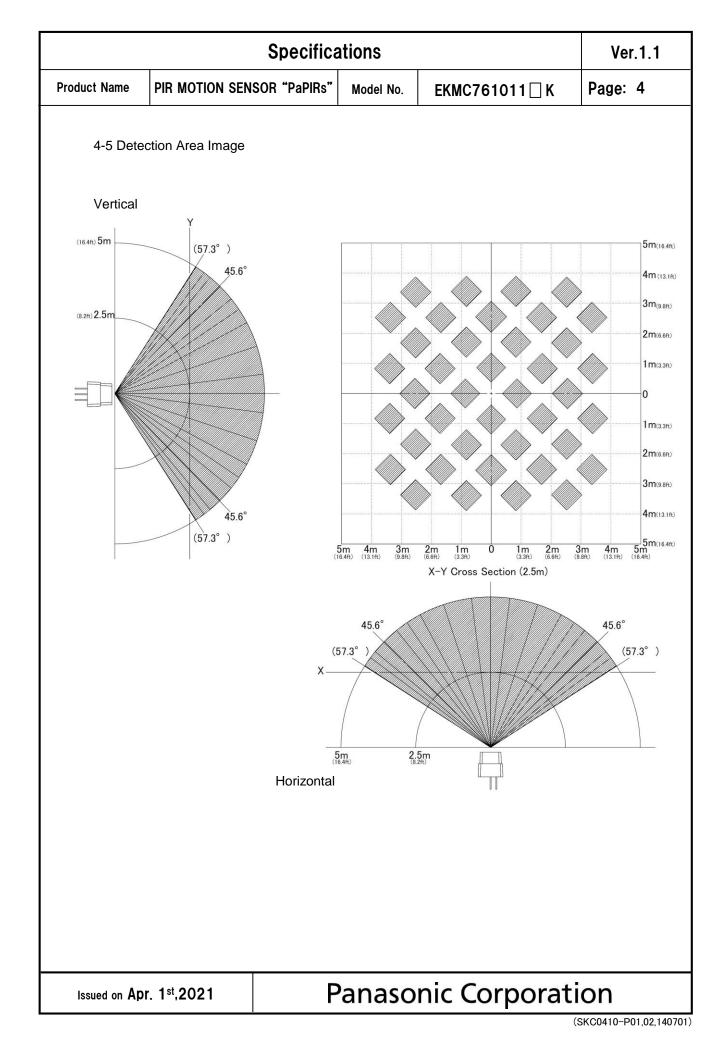
4-3 Electrical Characteristics

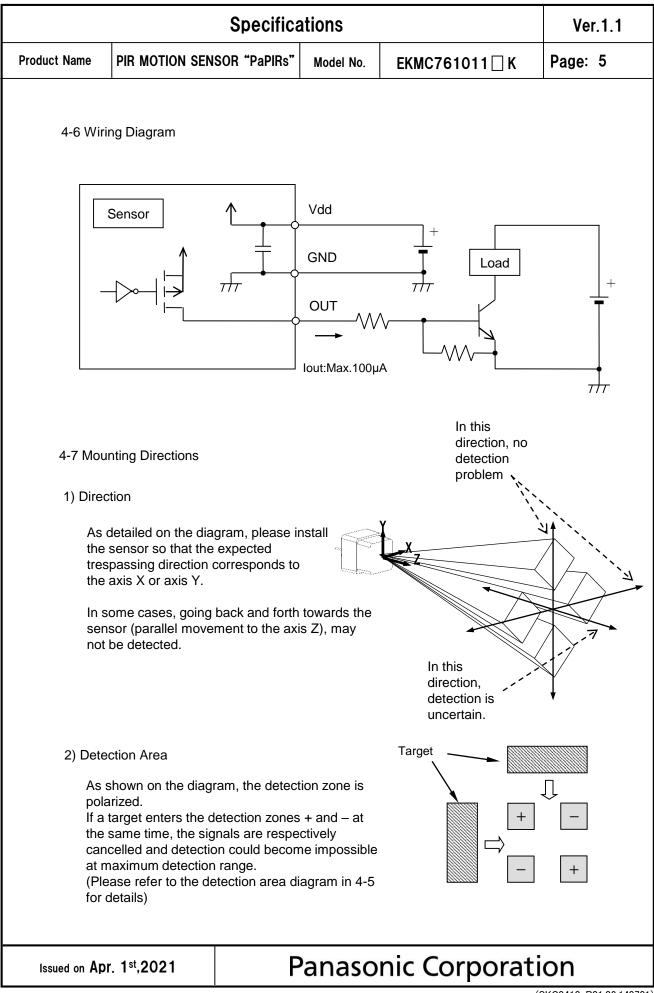
Conditions for Measuring: Ambient temperature=25°C(77°F)

	Symbol	Min	A			
	1		Avg.	Max	Unit	Special mentior
Operating Voltage	Vdd	3.0		6.0	VDC	—
Electrical Current Consumption	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 Apr. 1st,2021







⁽SKC0410-P01,02,140701)

Specifications					
Product Name	Page: 6				
	•			•	

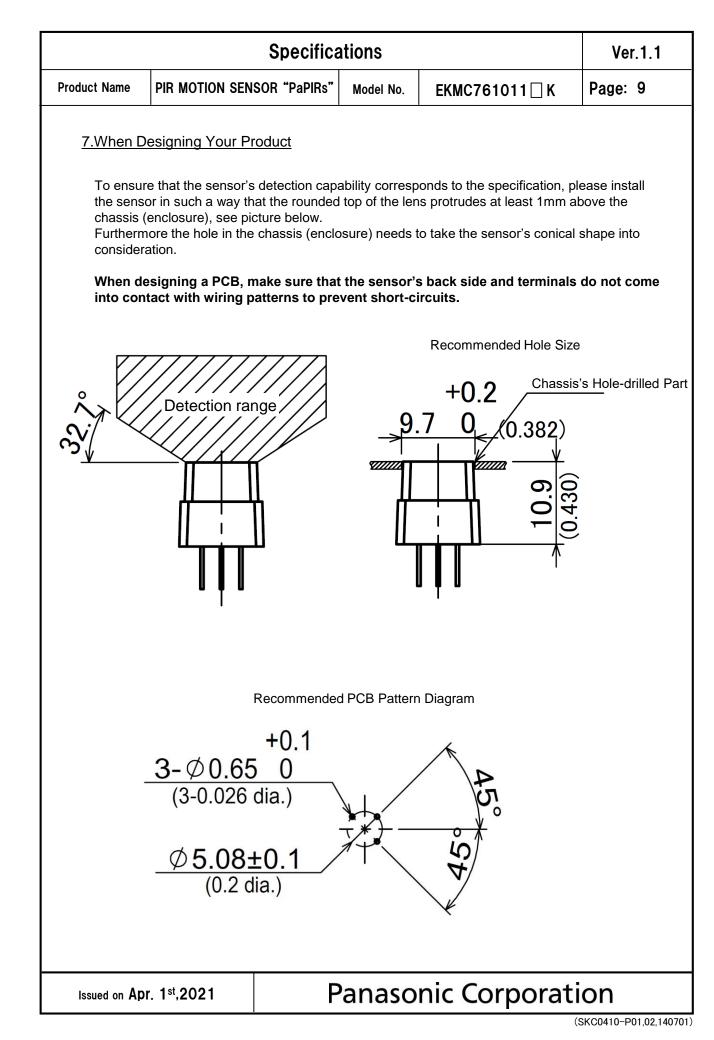
5. Safety Precautions

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

	Sp	ecifica	ations		Ver.1.1		
Product Name	PIR MOTION SENSOR "F	PaPIRs"	Model No.	EKMC761011 🗌 K	Page: 7		
6.Operating	Precautions						
6-1 Basic F	Principles						
However, heat sour	ce. Besides, it could also	following o detect t) cases: lack c the presence (iations in infrared rays. If movement, no temperat of heat sources other thar ing on actual operating co	n a human body.		
1) Detect	ing heat sources other th	nan the h	numan body, s	such as:			
b) When beam c) Sudd	hit the sensor regardless	nple sun s inside inside or	light, incande: or outside the around the d	scent lamp, car headlights detection area. etection area caused by h			
2) Difficul	ty in sensing the heat so	ource					
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) Expans	sion of the detection area	а					
	In case of considerable difference in the ambient temperature and the human body temperature, detection area may be wider apart from the configured detection area.						
4) Malfun	ction / Detection error						
output o	lue to the nature of pyro-	-electric	element. Whe	are occasions, come from In the application does no re by introducing pulse co	t accept such		
6-2 Optima	I Operating Environmen	t Conditi	ons				
2) Humid 3) Pressu	ıre : 86∼106kPa	Rh (Avoid	l condensatior	n or freezing of this produ	ot)		
5) This se	eating, oscillations, shocl ensor is not waterproof o re, condensation, frost, c	or dustpro	oof. Avoid use	in environments subject	o excessive		
	use in environments with		-				

	Specifications					
Product Na	me	PIR MOTION SEN	SOR "PaPIRs"	Model No.	ЕКМС761011 🗌 К	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 seco	onds.
2)	To ma	aintain stability of t	he product, alv	vays mount or	n a printed circuit board.	
,		t use liquids to wa mance.	ish 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.		
,		ensor may be dan ns and be very ca	• •		c electricity. Avoid direct hai duct.	nd contact with
		wiring the produc disturbances.	t, always use s	hielded cable	s and minimize the wiring le	ength to prevent
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.					
,	Please use a stabilized power supply. Power supply noise can cause operating errors. Noise resistance : $\pm 20V$ or less (Square waves with a width of 50ns or 1µs) To reduce the effect of power supply noise, install a capacitor on the sensor's power supply pin.					
	Operating errors can be caused by noise from static electricity, lightning, cell phone, amateur radio, broadcasting offices etc					
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)	not gu humia	uarantee durability dity levels will acc lanned usage and	/ or environme elerate the dete	ntal resistance erioration of e	uggested to prolong usage. e. Generally, high temperatu lectrical components. Pleas he expected reliability and le	ures or high e consider both
	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)	Te Hu	ge conditions emperature: umidity: se use within 1 yea	+5 ~ +40°C (- 30 ~ 75% ar after product)	
Issued of	on Apr	r. 1 st ,2021	F	anaso	nic Corporati	on



	Ver.1.1			
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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.

Mouser Electronics

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