	Specifi	cations			Ver.1.2
Product Name	PIR MOTION SENSOR "PaPIR	s" Model No.	EKMB	121111	Page: 1
	OTION SENSOR "PaPIRs" eries∙Ultra wide & Long distar	nce detection type	e (2µA / Dig	ital output)	I
	Lens Color	Model Number		Mar	king
	White	EKMB1211111			
	Black	EKMB1211112			
	Pearl White	EKMB1211113			
	EW EW $\phi 0.45$ $\phi 0.45$ $\phi 0.45$ $\phi 11$ (0.433 dia.) VIEW C.D. $\phi 5.08 \pm 0.2$ (0.2 dia.)	$ \begin{array}{c} 37.5 \\ 0 36 \\ 1.47 \\ 0 36 \\ 1.41 \\ 0 32.6 \\ 1.28 \\ \hline 0 32.6 \\ 1.28 \\ \hline 0 32.6 \\ 1.28 \\ \hline 0 32.6 \\ \hline 0 $	7 dia.) 3 dia.)	a) The Marking shown by a Marking D E F G H I J K L b) Last-digit (Ex:2020= 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.
Panae	sonic Corporat		proved by		
		Ch	ecked by		
	ssued on Jun. 17th,2023		signed by		

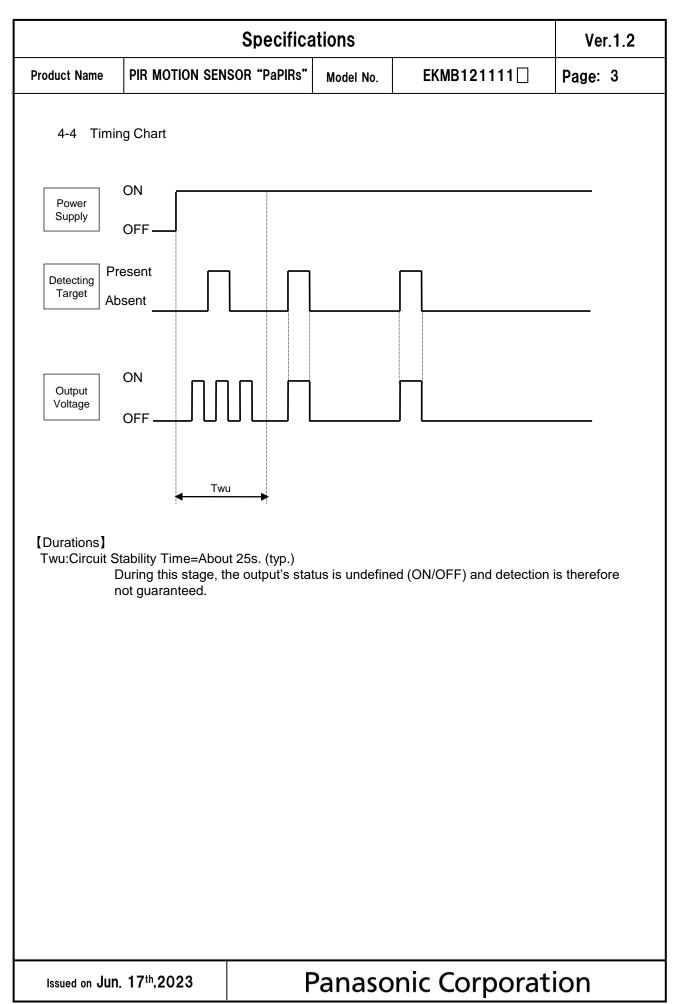
Specifications							Ver.1.	
Product Name	PIR N	IOTION SENSOR "Pa	aPIRs"	Model No.	EKMB12111	1	Page: 2	
<u>4.Chara</u>	<u>cteristic</u> :	<u>5</u>						
		erformance for measuring: Am	bient te	emperature=	25°C(77°F) Operatii	ng voltage	e=3VDC	
		Temperature difference		/alue	Conditions conce			
	Note1)	8°C(14.4°F)	up to 15m up to 10m		1.Movement speed: 1.0m/s 2.Target concept is human body (Object size:Around 700 × 250mm)			
_	Detection Range	4°C(7.2°F)						
Not	•	nding on the temper tion range will chan		lifference be	tween the target and	the surro	undings,	
			,	Value	Note	es		
		Horizontal	92	°(±46°)				
-	etection Area	Vertical	45°	(±22.5 [°])	Refer to the section 4-	-5.		
		Detection zones		188	-			
4-2 N	laximum	Rated Values						
				Va	llue	Ur	nit	
	Power Supply Voltage		-0.3~4.5		VD	C		
Us	Usable Ambient Temperature		-20 \sim +60°C (-4 \sim +140°F) Do not use in a freezing or condensation environment		a freezing or			
	Storogy	e Temperature		20 - 170°C	(-4∼+158°F)			

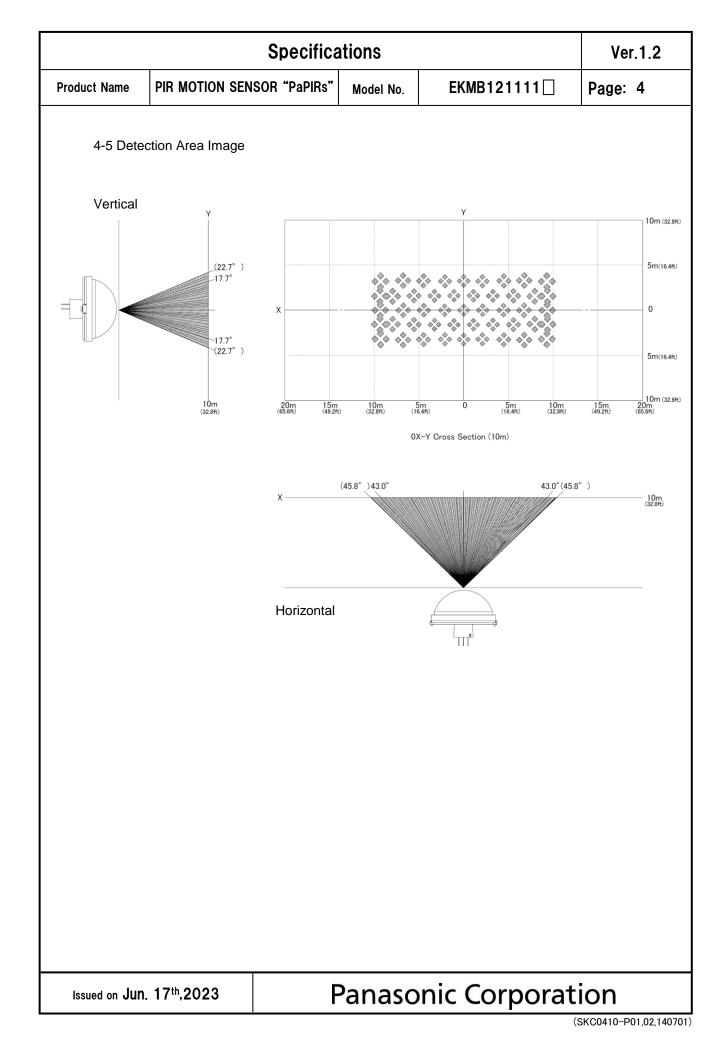
4-3 Electrical Characteristics

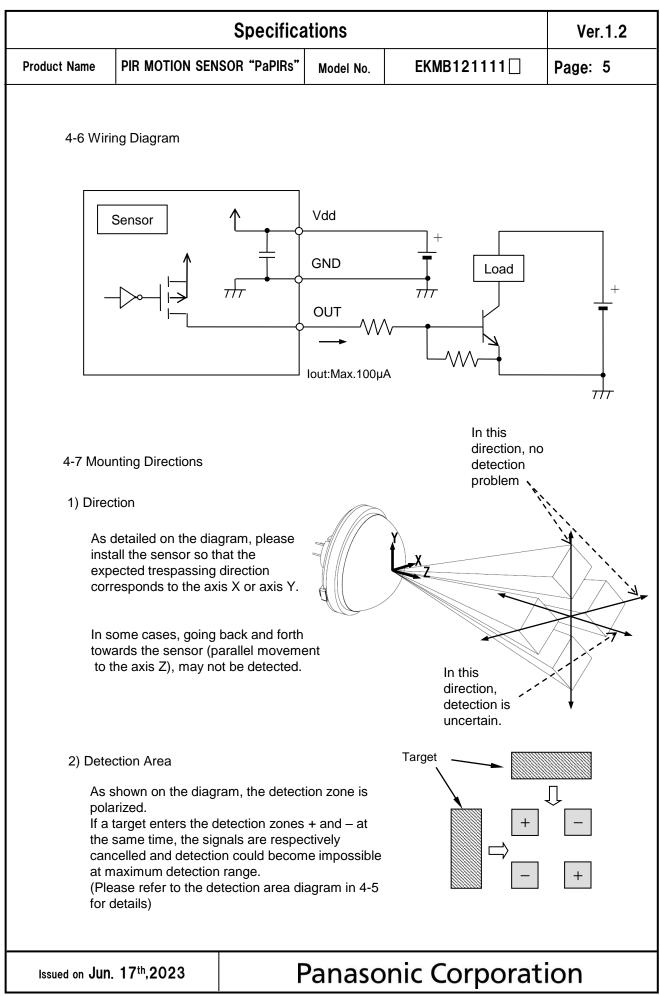
Conditions for Measuring: Ambient temperature: 25°C(77°F)

	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	2.3	_	4.0	VDC	_
Electrical Current Consumption	Iw	_	1.9	3.0	μA	lout=0
Output Current	lout	—		100	μA	Vout≧Vdd−0.5
Output Voltage	Vout	Vdd-0.5			VDC	—
Circuit Stability Time (when voltage is applied)	Twu	—	25	210	S	_

Issued on Jun. 17th,2023







Specifications						
Product Name	Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMB121111					

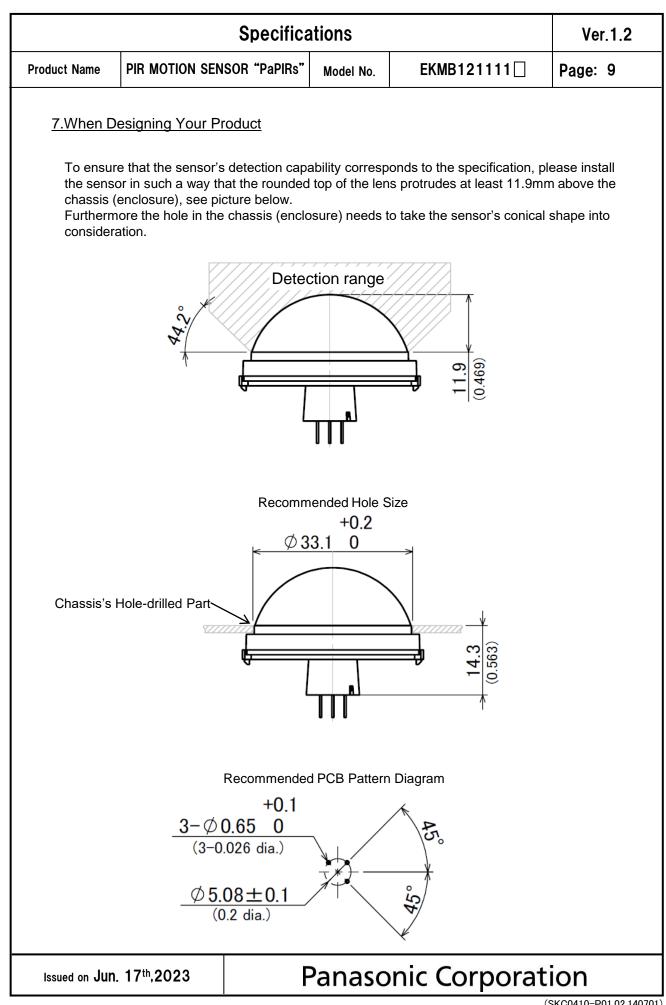
5. Safety Precautions

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

		Ver.1.2						
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMB121111	Page: 7				
6.Operating	Precautions							
6-1 Basic F	Principles							
However, heat sour	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	cases: lack o the presence	of movement, no temperature of heat sources other than a	human body.				
1) Detect	ing heat sources other than the h	uman body, s	such as:					
b) When beam c) Sudd	l animals entering the detection a n a heat source for example sun hit the sensor regardless inside or en temperature change inside or HVAC, or vapor from the humidifi	light, incande or outside the around the d	detection area.					
2) Difficul	ty in sensing the heat source							
a cor b) Non-	s, acrylic or similar materials star rect transmission of infrared rays movement or quick movements o se refer to 4-1 for details about m	, of the heat so	urce inside the detection are	-				
3) Expans	3) Expansion of the detection area							
	of considerable difference in the In area may be wider apart from t			y temperature,				
4) Malfun	ction / Detection error							
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 Condition	ons						
 Humid Pressution Overheit This see moisture 	erature : Please refer to the ma ity Degree :15~85% Rh (Avoid ire : 86~106kPa eating, oscillations, shocks can ca ensor is not waterproof or dustpro re, condensation, frost, containing use in environments with corrosiv	l condensation ause the sens pof. Avoid use g salt air or du	n or freezing of this product) sor to malfunction. e in environments subject to					
,		-						
	Ι							

Specifications						Ver.1.2		
Product Name		PIR MOTION SENSOR "		DR "PaPIRs" Model No. EKMB121111		Page: 8		
6-3 H	landlin	g Cautions				- ·		
		t solder with a sold ensor should be h	-		2°F), or for more than 3 se	conds.		
2)	To ma	intain stability of t	he product, a	Ilways mount o	n a printed circuit board.			
		t use liquids to wa mance.	sh the senso	r. If washing flu	id gets through the lens, it	can reduce		
4)	Do not	t use a sensor afte	er it fell on the	e ground.				
		ensor may be dam is and be very car			c electricity. Avoid direct h duct.	and contact with		
		wiring the produc disturbances.	t, always use	shielded cable	es and minimize the wiring	length to prevent		
7)	is higł	nly recommended resistance : be		er supply voltag	age surge. Use of surge at ge value indicated in the ma			
	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)	Detect	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)	not gu humid	larantee durability lity levels will acce anned usage and	or environm	ental resistance eterioration of e	uggested to prolong usage e. Generally, high tempera lectrical components. Plea ne expected reliability and	tures or high se consider both		
		t attempt to clean se can cause sha	-		gent or solvent, such as be	nzene or alcohol,		
	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	imidity:	+5 ~ +40°C 30 ~ 75% ar after produ	(+41 ~ +104°F	-)			



(SKC0410-P01,02,140701)

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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.

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 EKMC1606111
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 OKY3221
 OKY3221