

⁽SKC0410-P01,02,140701)

	Reference Specifications					
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4.Characteristics

4-1 Detection Performance

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

1) Supposing slight motion (Small movement)

	Temperature difference	Value	Conditions concerning the target
(Note1)	16°C(28.8°F)	up to 3.5m	Supposing slight motion (Small movement) 1.Movement speed: 0.5m/s
Detection Range	8°C(14.4°F)	up to 2.5m	2.Target concept is human head (Object size:Around 200×200mm)

2) Supposing walking (Big movement)

	Temperature difference	Value	Conditions concerning the target
(Note1)	16°C(28.8°F)	up to 8.5m	Supposing walking (Big movement) 1.Movement speed: 1.0m/s
Detection Range	8°C(14.4°F)	up to 6m	2.Target concept is human body (Object size:Around 700×250mm)

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

		Value	Notes
	Horizontal	99°(±49.5°)	
Detection Area	Vertical	99°(±49.5°)	Refer to the section 4-5.
	Detection zones	192	

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)	

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Panasonic Corporation

(SKC0410-P01,02,140701)

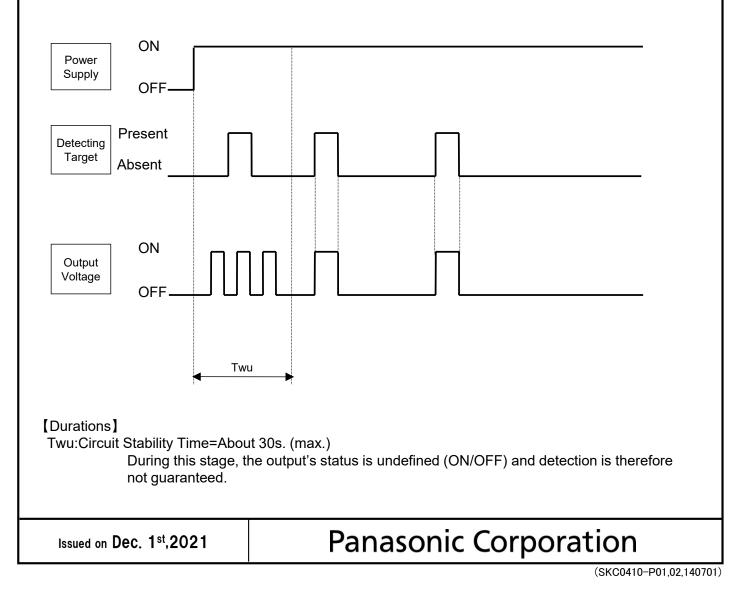
	Reference Specifications					
Product Na	ne	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760911 ∐K	Page: 3	

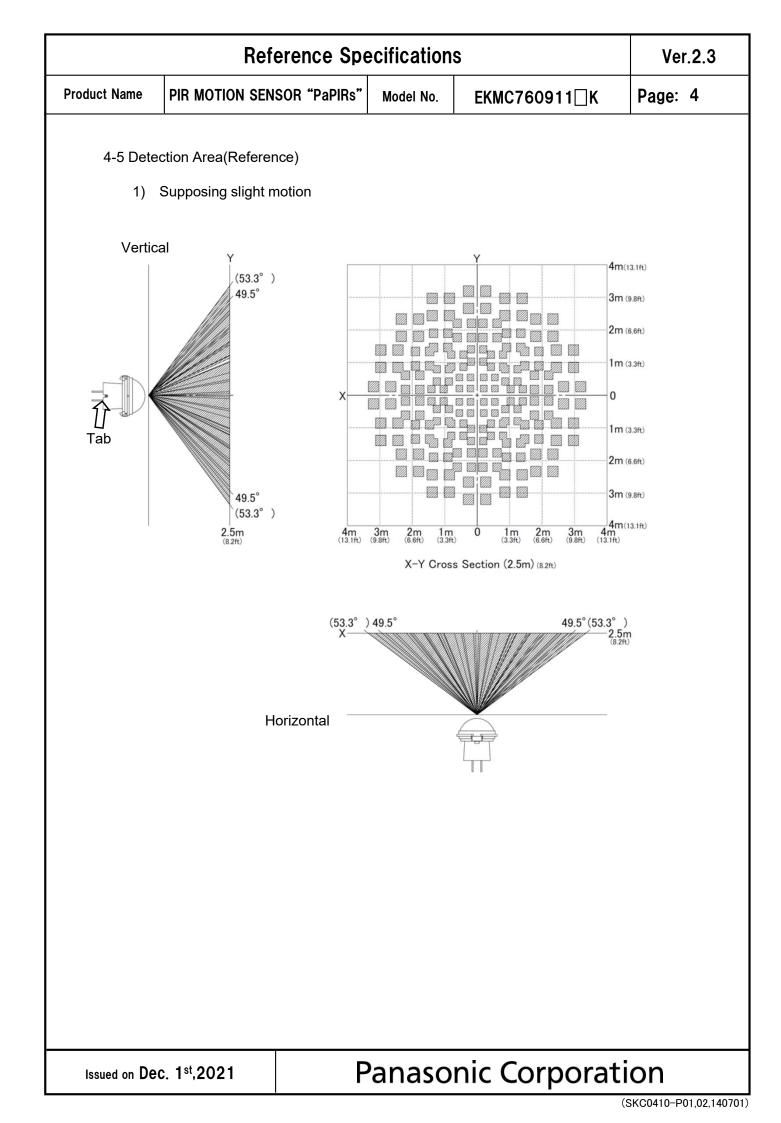
4-3 Electrical Characteristics

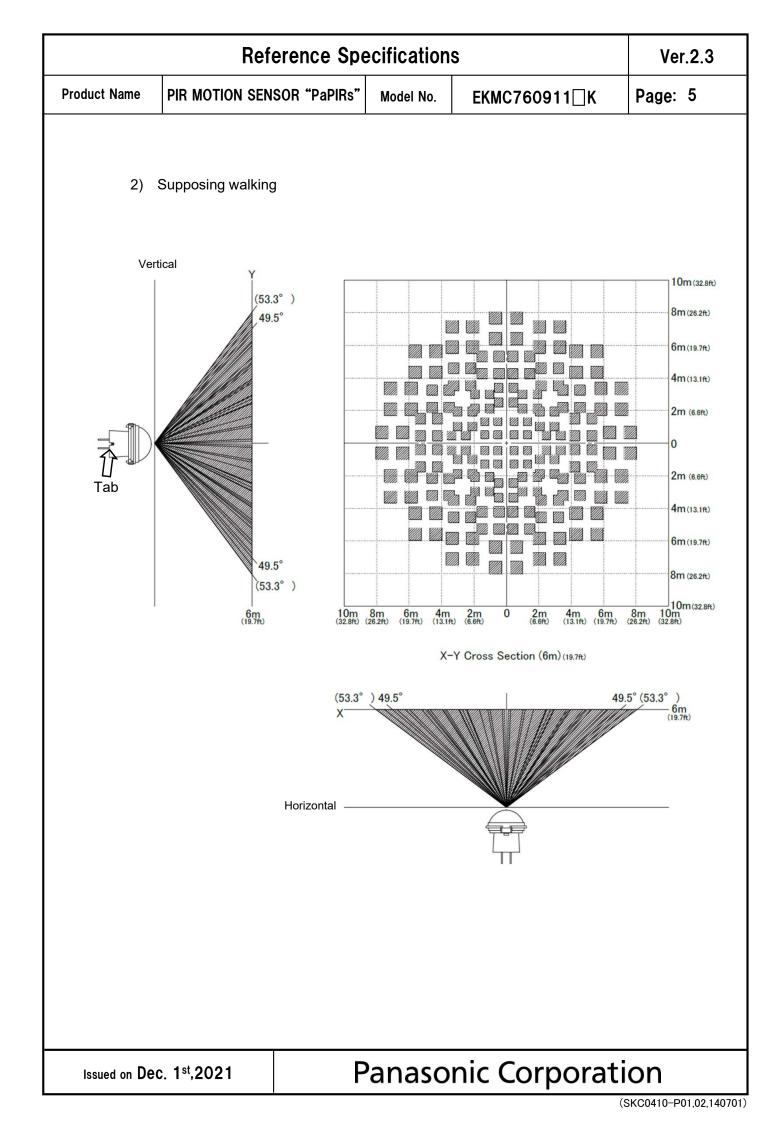
Conditions for Measuring: Ambient temperature=25°C(77°F)

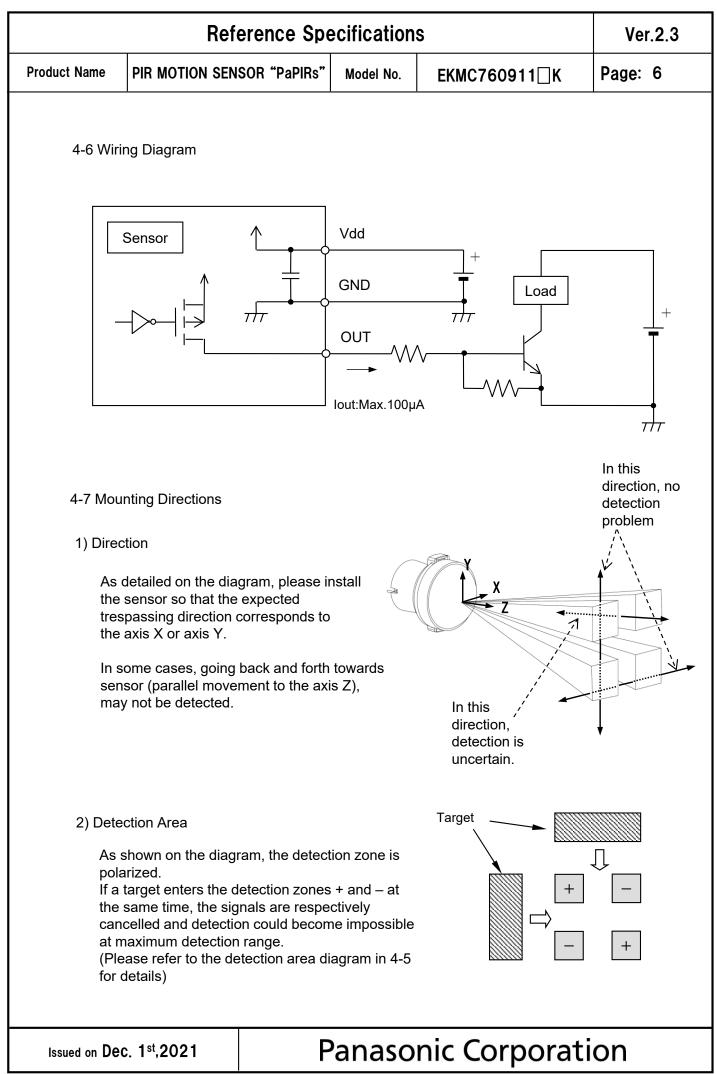
	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	3.0	_	6.0	VDC	_
Electrical Current Consumption	Iw	—	170	300	μA	lout=0
Output Current	lout	—	_	100	μA	Vout≧Vdd−0.5
Output Voltage	Vout	Vdd-0.5	_	_	VDC	—
Circuit Stability Time (when voltage is applied)	Twu	_		30	s	_

4-4 Timing Chart









	Reference Specifications						
Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC760911							
 Head the f 1) Do not a environment Using the generate circuitry 2) Our condition Neverthe a product after successful conjunct acciden 3) Before a specification of the specification of	Precautions ollowing precautions to prevent inj use these sensors under any circu- ment conditions or other specificat le sensors in any way which cause e abnormally high levels of heat, e and possibly causing an accident mpany is committed to making pro- eless, all electrical components ar ct will depend on the operating en- ch deterioration could lead to over the deterioration could lead to over the with proper fire-prevention, sa ts, reduction in product life expect connecting, check the pin layout by ations diagram, etc., to verify that	mstance in w ions are exce es their speci- mit smoke, e ducts of the h re subject to r vironment and heating, smol fety and mair ancy or break y referring to the connector	which the range of their ration eeded. fications to be exceeded m tc., resulting in damage to ighest quality and reliabilit natural deterioration, and d d conditions of use. Contin the contector wiring diagn the connector wiring diagn is connected properly.	nay the y. lurability of nued use product in id			
abnorm 4) Do not u 5) Failure If this se possible	s made in connection may cause in ally high levels of heat, emit smoke use any motion sensor which has l modes of sensors include short-cir ensor is to be used in equipment w e effects of these failures on the ec g protection circuits or protection o	e, etc., resulti been disasse rcuiting, open /here safety is juipment cond	ng in damage to the circui mbled or remodeled. -circuiting and temperatur s a prime consideration, ex	try. e rises. kamine the			

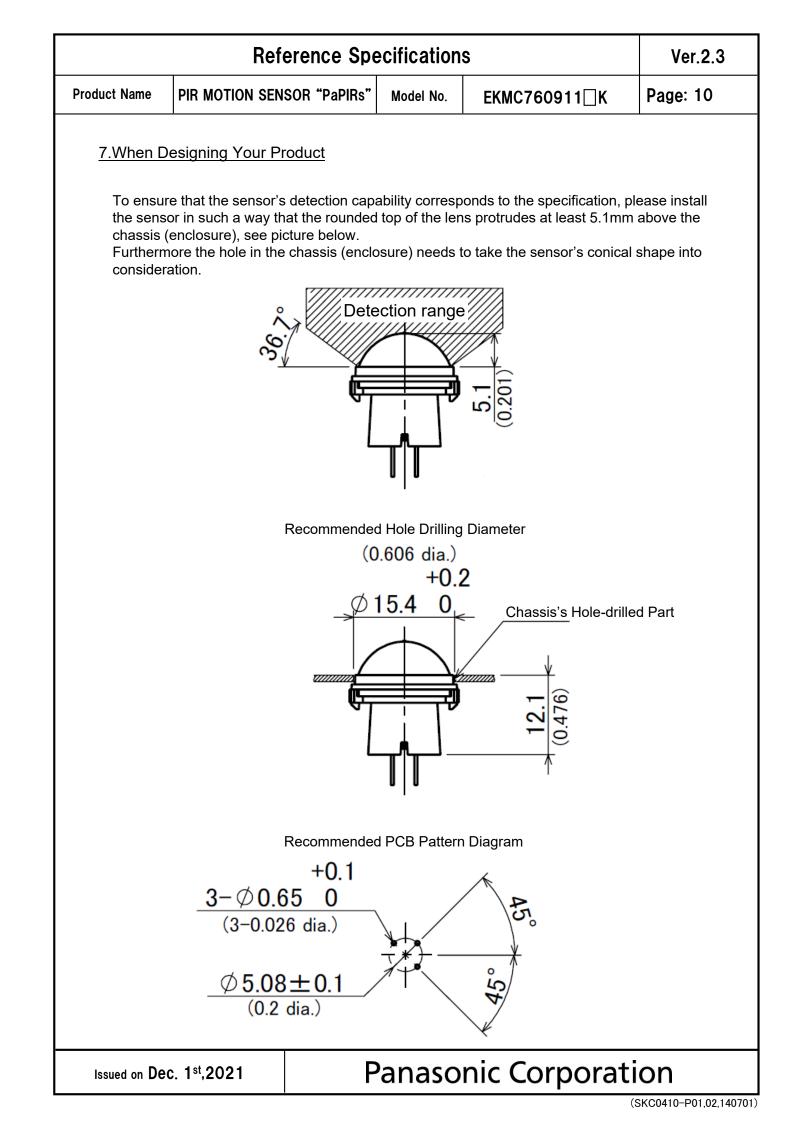
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	Reference Specifications							
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760911	Page: 8				
6.Operating	Precautions							
6-1 Basic I	6-1 Basic Principles							
However heat sour	s a pyroelectric infrared sensor th , it may not detect in the following ce. Besides, it could also detect / 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	າuman 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 ou HVAC, or vapor from the humidif	light, incande or outside the r around the d	detection area.					
2) Difficu	Ity in sensing the heat source							
a cor b) Non-	s, acrylic or similar materials star rect transmission of infrared rays movement or quick movements se refer to 4-1 for details about m	s, of the heat so	urce inside the detection are	-				
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						
 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 excessive moisture, condensation, frost, containing salt air or dust. Avoid use in environments with corrosive gases. 								
b) Avoid	use in environments with corrosi	ve gases.						

Panasonic Corporation

Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC760911□K Page: 9 6-3 Handling Cautions 1) Do not solder with a soldering iron above 350°C (662 F), or for more than 3 seconds. This sensor should be hand soldered. 2) To maintain stability of the product, always mount on a printed circuit board. 3) Do not use liquids to wash the sensor. If washing fluid gets through the lens, it can reduce performance. 4) Do not use a sensor after it fell on the ground. 5) The sensor may be damaged by ±200 volts of static electricity. Avoid direct hand contact with the pins and be very careful when operating the product. 6) When wiring the product, always use shielded cables and minimize the wiring length to prevent noise disturbances. 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. 8) Please use a stabilized power supply. Power supply noise can cause operating errors. Noise resistance : ± ±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. 9) 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. <th></th> <th></th> <th>Ref</th> <th>erence Spe</th> <th>ecification</th> <th>S</th> <th>Ver.2.3</th>			Ref	erence Spe	ecification	S	Ver.2.3
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Issued on Dec. 1 st , 2021 Panasonic Corporation			1 st 2021		Danaca	nic Cornorati	ion



	Ver.2.3			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760911 K	Page: 11

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.

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