imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

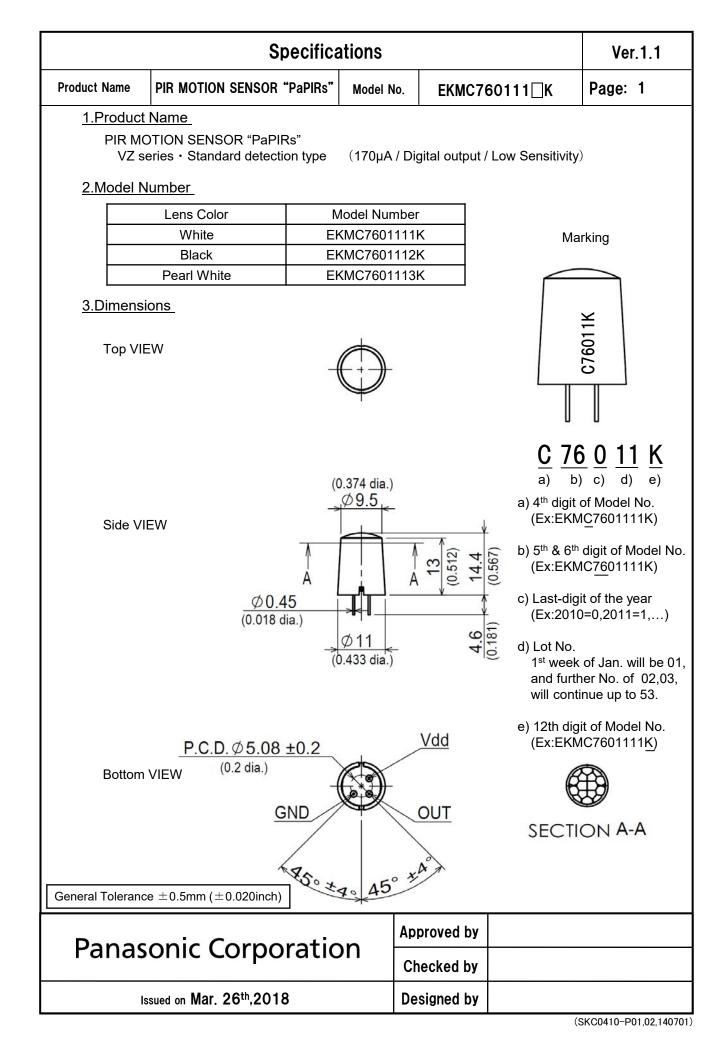
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Specifications					
Product Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC760111					
	·				

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 Range	16°C(28.8° F)	Max 7m	1.Movement speed: 1.0m/s 2.Target concept is human body
	8°C(14.4°F)	Max 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	94°	$(\pm 47^{\circ}$)	
Detection Area	Vertical	82°	$(\pm 41^{\circ})$	Refer to the section 4-5.
	Detection zones		64	

4-2 Maximum Rated Values

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

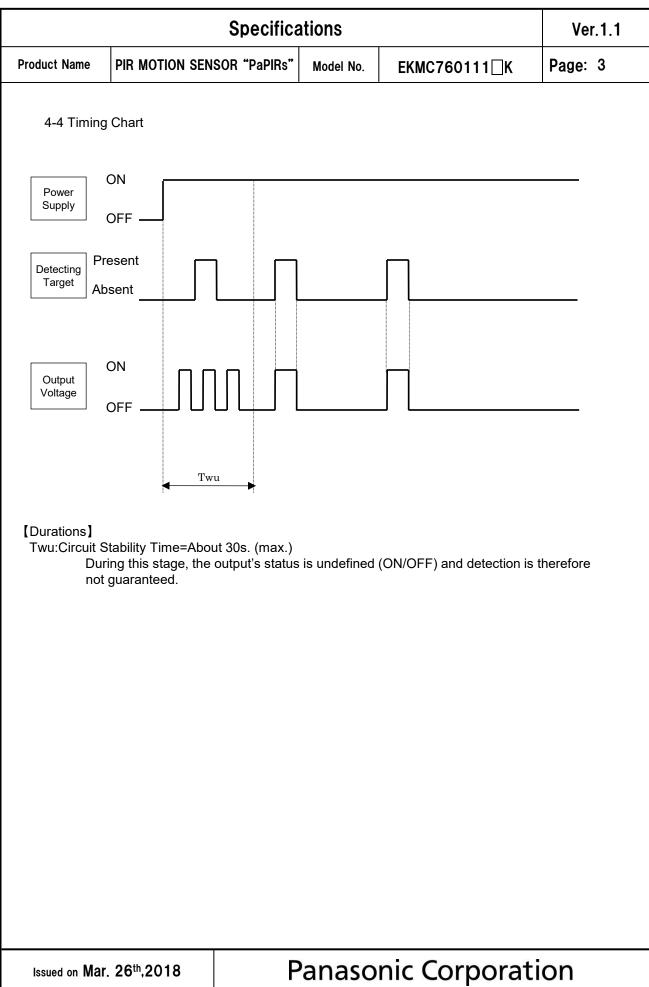
4-3 Electrical Characteristics

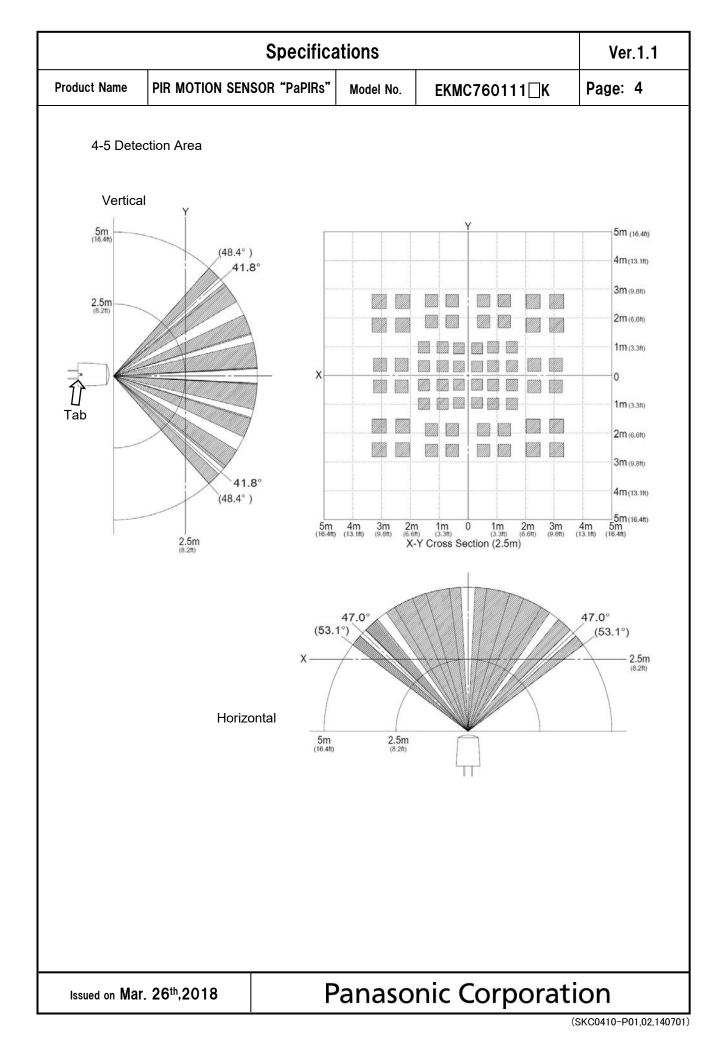
Conditions for Measuring: Ambient temperature=25°C(77° F)

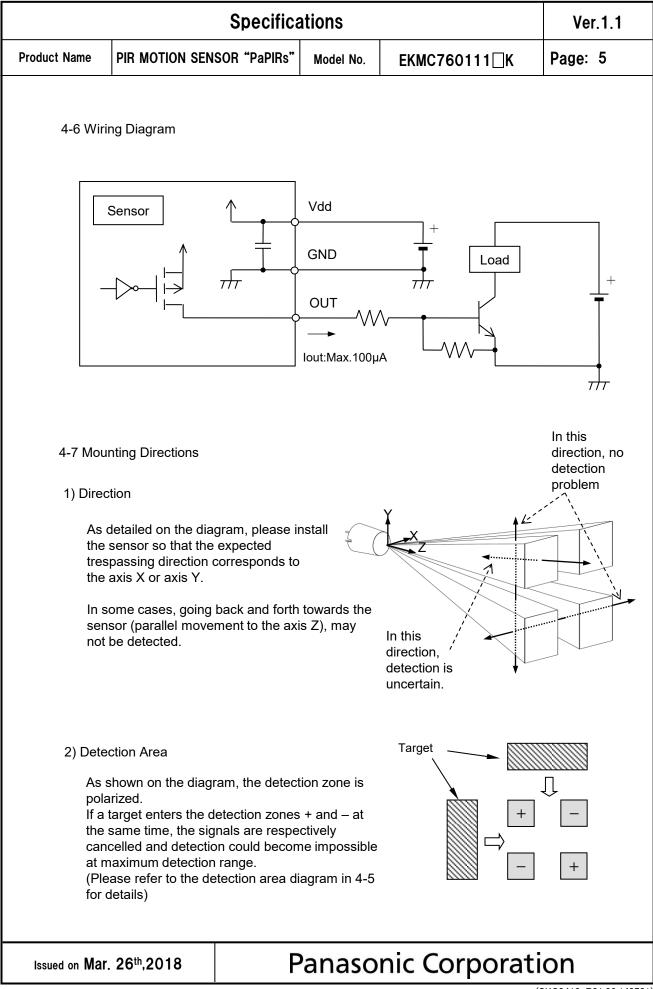
	Symbol	Min	Avg.	Max	Unit	Special mentior
Operating Voltage	Vdd	3.0	_	6.0	VDC	—
Electrical Current Consumption	lw	—	170	300	μA	lout=0
Output Current	lout	—	-	100	μA	Vout≧Vdd−0.
Output Voltage	Vout	Vdd-0.5	-	_	VDC	—
Circuit Stability Time (when voltage is applied)	Twu	_	_	30	s	_

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Specifications				
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760111□K	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

Panasonic Corporation

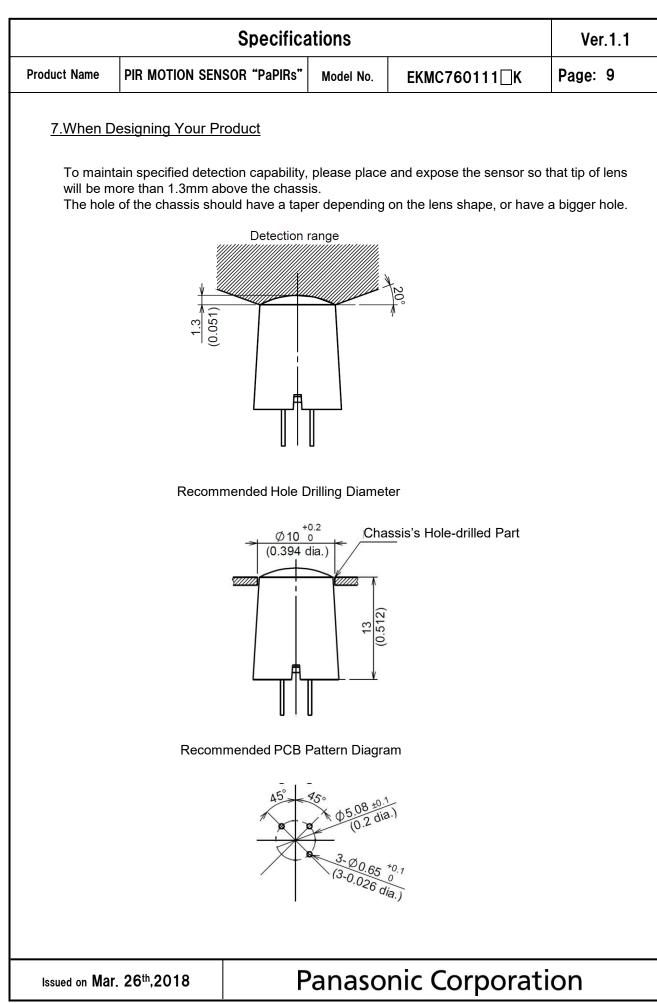
(SKC0410-P01,02,140701)

	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760111	Page: 7
6.Operating	Precautions			
6-1 Basic Pr	inciples			
However, i heat sourc	a pyroelectric infrared sensor that it may not detect in the following e. Besides, it could also detect th and reliability of the system may	cases: lack of ne presence o	movement, no temperature f heat sources other than a	human body.
1) Detecti	ng heat sources other than the h	uman body, s	uch as:	
b) When beam h c) Sudde	animals entering the detection an a heat source for example sun lig hit the sensor regardless inside of n temperature change inside or a VAC, or vapor from the humidifie	ght, incandeso r outside the c around the de	letection area.	
2) Difficult	y in sensing the heat source			
a corre b) Non-m	acrylic or similar materials stand ect transmission of infrared rays, ovement or quick movements of e refer to 4-1 for details about mo	the heat sour	ce inside the detection area	-
3) Expans	sion of the detection area			
	f considerable difference in the a area may be wider apart from th			temperature,
4) Malfun	ction / Detection error			
output du	sary detection signal might be ou le to the nature of pyro-electric el strictly, please implement the co	lement. When	the application does not ac	cept such
6-2 Optima	I Operating Environment Condition	ons		
 Humidi Pressu Overhe This se moistu 	rature : Please refer to the max ty Degree :15~85% Rh (Avoid re : 86~106kPa eating, oscillations, shocks can ca ensor is not waterproof or dustpro re, condensation, frost, containing use in environments with corrosiv	condensation ause the sens of. Avoid use g salt air or du	or freezing of this product) or to malfunction. in environments subject to o	excessive

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	Specifications				
Product Name	PIR MOTION SEN	SOR "PaPIRs"	Model No.	EKMC760111	Page: 8
6-3 Hand	ling Cautions				
,	ot solder with a sol sensor should be h	•	ove 350°C(662	2°F), or for more than 3 se	conds.
2) To m	aintain stability of t	he product, alv	vays mount o	n a printed circuit board.	
•	ot use liquids to wa rmance.	sh the sensor.	If washing flu	id gets through the lens, it c	an reduce
4) Do n	ot use a sensor aft	er it fell on the	ground.		
	sensor may be dan ins and be very ca			c electricity. Avoid direct hai duct.	nd contact with
,	n wiring the produc disturbances.	t, always use s	hielded cable	s and minimize the wiring le	ength to prevent
is hig	ghly recommended le resistance : be			age surge. Use of surge abs e value indicated in the max	
Noise	e resistance : ±2	20V or less (Sc	uare waves w	noise can cause operating vith a width of 50ns or 1µs) capacitor on the sensor's pe	
	ating errors can be , broadcasting offic	-	ise from static	electricity, lightning, cell ph	one, amateur
10) Dete	0) Detection performance can be reduced by dirt on the lens, please be careful.				
,		•	• • •	lease avoid adding weight c r reduced performance.	or impacts that
12) Operating "temperatures" and "humidity level" are suggested to prolong usage. However, they do not guarantee durability or environmental resistance. Generally, high temperatures or high humidity levels will accelerate the deterioration of electrical components. Please consider both the planned usage and environment to determine the expected reliability and length of life of the product.					
	ot attempt to clean ese can cause sha	•		ent or solvent, such as benz	zene or alcohol,
envir	14) 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	age conditions emperature: lumidity: se use within 1 yea	+5 ~ +40°C (- 30 ~ 75% ar after product		F)	
Issued on Ma	r. 26 th ,2018	F	Panaso	nic Corporati	on



(SKC0410-P01,02,140701)

	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760111	Page: 10

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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