	Speci	fications			Ver.1.1
Product Name	PIR MOTION SENSOR "PaPI	Rs" Model No.	EKMC76	9311] K	Page: 1
	ON SENSOR "PaPIRs" es • Standard motion / Slight	motion detection	type(170µA		t / Low Sensitivity) rking
	Lens Color	Model Number			
	White	EKMC7693111			
	Black	EKMC7693112			+
<u>3.Dimensi</u> Top VIE		EKMC7693113	<		
Side VII	Molding gate 16.6 (0.6 0 14.9 (0.5 14.9 (0.5 0 14.9 (0.5) 0 14.9 (0.5 0 14.9 (0.5) 0 14.9 (0.		(0.677)	a) The Marking shown by a l Marking A B C D E F G H I b) Last-digit of (Ex:2010=0,	Model Number EKMB119311 EKMB129311 EKMB269311 EKMC169311 EKMC269311 EKMC469311 EKMC769311 KMC769311 KMC769311
	Ø 11 (0.433 dia) 0.200 dia)	VDD			lan. will be 01, No. of 02,03, up to 53.
Bottom General Tolerance	VIEW GND e ±0.5mm (±0.020inch)	0079) 4.5 4.5	0.177)	A-A cros	s sectional
L	· · · ·		I		
Panas	onic Corporat	tion —	proved by ecked by		
ls	sued on Mar. 27 th .2018	De De aded From Oneyac.co	signed by	10	SKC0410-P01,02,14070

	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC769311 ∐K	Page: 2

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) area	•	16°C(28.8°F)	Max 3m	1.Movement speed: 0.5m/s 2.Target concept is human head
	detection area	8°C(14.4°F)	Max 2.2m	(Object size:Around 200×200mm) 3.Passing 1 zone
motion	Standard motion	16°C(28.8°F)	Max 3m	1.Movement speed: 1.0m/s 2.Target concept is human body
	detection area	8°C(14.4°F)	Max 2.2m	(Object size:Around 400 × 200mm) 3.Passing 2 zones

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

			Value	Notes
Slight	Slight	Horizontal	44° ($\pm 22^\circ$)	
	motion ditection	Vertical	44° ($\pm 22^\circ$)	
Detection	area	Detection zones	36	Refer to the section 4-5.
Area	Area Standard	Horizontal	90° ($\pm45^\circ$)	Relef to the section 4-5.
	motion detection	Vertical	90° ($\pm45^\circ$)	
	area	Detection zones	48	

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)	

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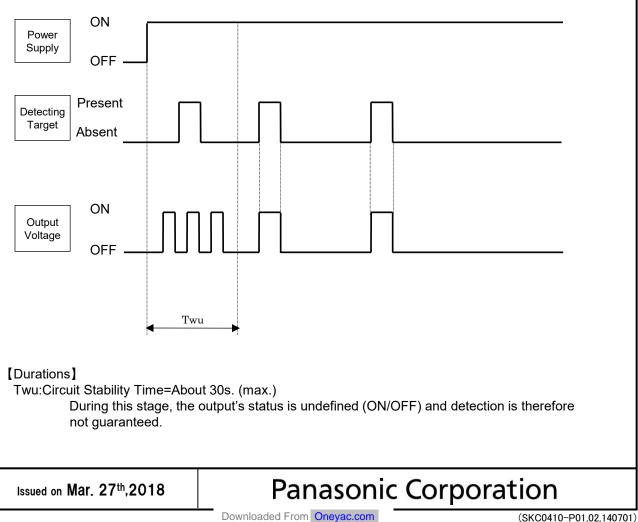
	Ver.1.1			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC769311 K	Page: 3

4-3 Electrical Characteristics

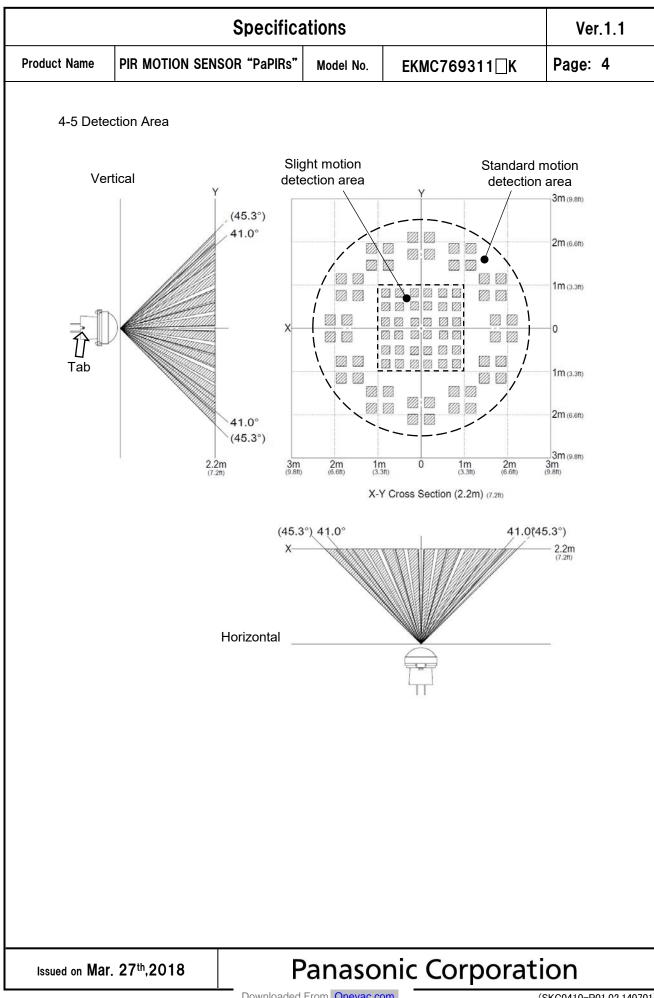
Conditions for Measuring: Ambient temperature=25°C(77°F)

	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	3.0		6.0	VDC	—
Electrical Current Consumption	lw	—	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

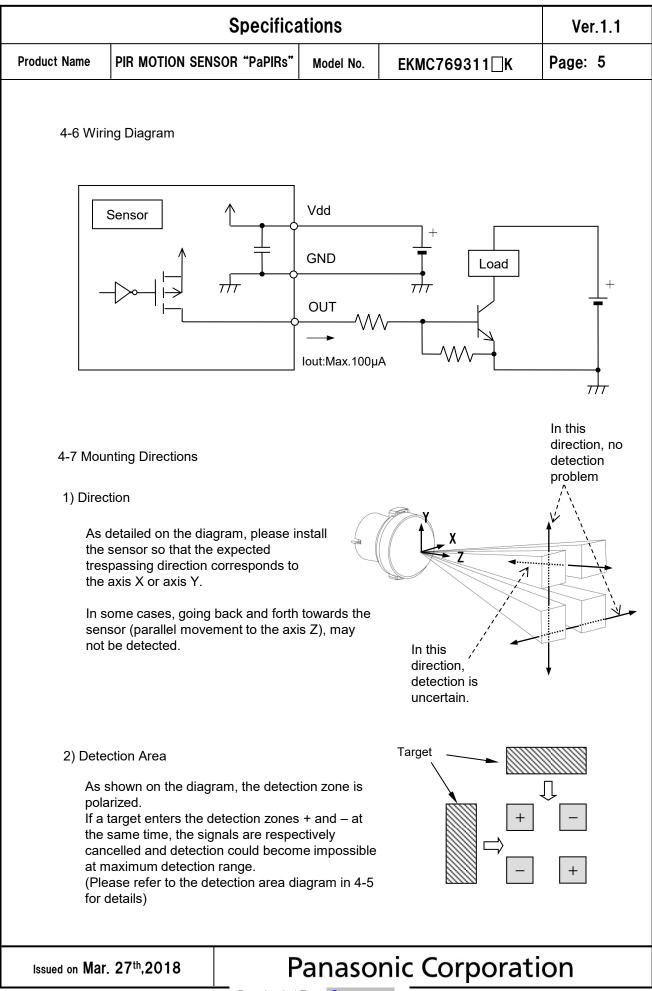


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5. Safety Precautions

Head the following precautions to prevent injury or accidents.

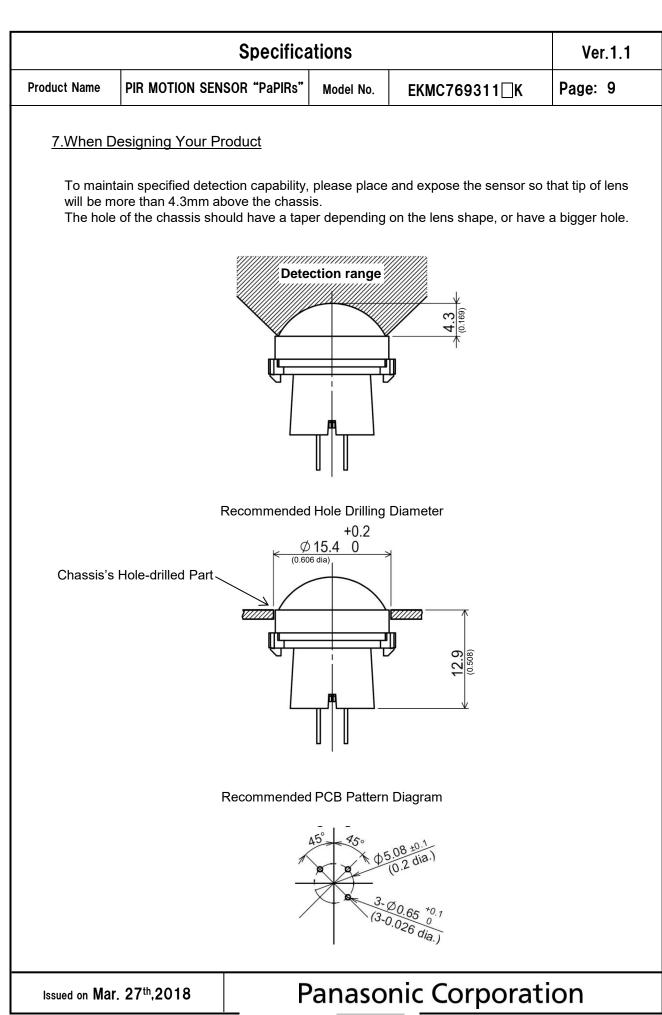
- Do not use these sensors under any circumstance in which the range of their ratings, environment conditions or other specifications are exceeded. Using the sensors in any way which causes their specifications to be exceeded may generate abnormally high levels of heat, emit smoke, etc., resulting in 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.
- 3) 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

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	Specifica	ations		Ver.1.1
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC769311 []K	Page: 7
6.Operating	Precautions			
6-1 Basic Pr	rinciples			
However, i heat sourc	a pyroelectric infrared sensor tha it may not detect in the following e. Besides, it could also detect th and reliability of the system may	cases: lack of ie presence o	⁻ movement, no temperature f heat sources other than a l	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 an temperature change inside or a VAC, or vapor from the humidifie	ght, incandes r outside the c around the de	detection area.	
2) Difficult	ty 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			
	of considerable difference in the a a area may be wider apart from th	•	•	temperature,
4) Malfun	ction / Detection error			
output du	sary detection signal might be ou ue to the nature of pyro-electric el strictly, please implement the co	lement. When	the application does not ac	cept such
6-2 Optima	l Operating Environment Conditio	ons		
 Humidi Pressu Overhe This se moistu 	erature : Please refer to the mat 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	condensatior ause the sens of. Avoid use g salt air or du	n or freezing of this product) or to malfunction. in environments subject to e	excessive

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		Specifica	ations		Ver.1.1
Product Name	PIR MOTION SEN	SOR "PaPIRs"	Model No.	EKMC769311□K	Page: 8
6-3 Han	dling Cautions				
,	not solder with a sol s sensor should be h	-		2°F), or for more than 3 se	conds.
2) Tor	naintain stability of t	he product, alv	ways mount o	n a printed circuit board.	
,	not use liquids to wa ormance.	sh the sensor.	If washing flu	id gets through the lens, it c	an reduce
4) Do	not use a sensor aft	er it fell on the	ground.		
,	sensor may be dan pins and be very ca			c electricity. Avoid direct hai duct.	nd contact with
,	en wiring the produc e disturbances.	t, always use s	shielded cable	s and minimize the wiring le	ngth to prevent
, is h	ighly recommended ge resistance : be			age surge. Use of surge abs e value indicated in the max	
Nois	e resistance : ±2	20V or less (So	quare waves v	noise can cause operating /ith a width of 50ns or 1µs) capacitor on the sensor's po	
	rating errors can be o, broadcasting offic	-	ise from static	electricity, lightning, cell ph	one, amateur
10) Det	ection performance	can be reduce	d by dirt on th	e lens, please be careful.	
,		•	• • •	lease avoid adding weight c r reduced performance.	or impacts that
not hur the	guarantee durability	or environme elerate the det	ntal resistance erioration of e	uggested to prolong usage. e. Generally, high temperatu lectrical components. Please ne expected reliability and le	ires or high e consider both
-	not attempt to clean nese can cause sha			ent or solvent, such as benz	zene or alcohol,
env	ronments containing	g corrosive gas	s, dust, salty a	ironments. As well, avoid sto ir etc. It could cause perforn llic connectors could be dan	nance
	age conditions Temperature: Humidity: ase use within 1 yea	+5 ~ +40℃ (30 ~ 75% ar after produc		F)	
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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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单击下面可查看定价,库存,交付和生命周期等信息

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