	Ver.1.2				
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC16	69311	Page: 1
VZ se	DTION SENSOR "PaPIRs" eries • Standard motion / Slight m	notion detectio	n type (1	70µA / Digital o	butput)
2.Model N					
		lodel Number KMC1693111		Ма	arking
		KMC1693112			
	Pearl White E	KMC1693113			
<u>3.Dimensi</u> Top VIE)			
Side VII				a) The Marki shown by a <u>Marking</u> A B C D E b) Last-digit	EKMB119311 EKMB129311 - EKMB269311 EKMC16931 EKMC169311 EKMC169311 EKMC169311 EKMC169311 EKM
<u>P.C.</u>		VDD		and furthe	of Jan. will be 01, er No. of 02,03, ue up to 53.
Bottom		4.5 (0.0%)			s sectional
		I			S SECUCIAI
Panas	onic Corporatio	n App	roved by		
	•	Che	ecked by		
ls	sued on Mar. 16 th .2016	Des	igned by		SKC0410-P01,02,14070

⁽SKC0410-P01,02,140701)

	Ver.1.2			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC169311	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
	Slight motion	8°C(14.4° F)	Max 3m	1.Movement speed: 0.5m/s 2.Target concept is human head
(Note1) Detection	detection area	4°C(7.2° F)	Max 2.2m	(Object size:Around 200×200mm) 3.Passing 1 zone
Range	Standard motion	8°C(14.4° F)	Max 3m	1.Movement speed: 1.0m/s 2.Target concept is human body
	detection area	4°C(7.2° 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	Horizontal	44 $^{\circ}$ (\pm 22 $^{\circ}$)	
	motion ditection area Standard motion detection area	Vertical	44 $^{\circ}$ (\pm 22 $^{\circ}$)	
Detection		Detection zones	36	Refer to the section 4-5.
Area		Horizontal	90° ($\pm45^\circ$)	
		Vertical	90° ($\pm45^\circ$)	
		Detection zones	48	

4-2 Maximum Rated Values

	Value	Unit
Power Supply Voltage	-0.3~7	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)	

Issued on Mar. 16th.2016

Panasonic Corporation

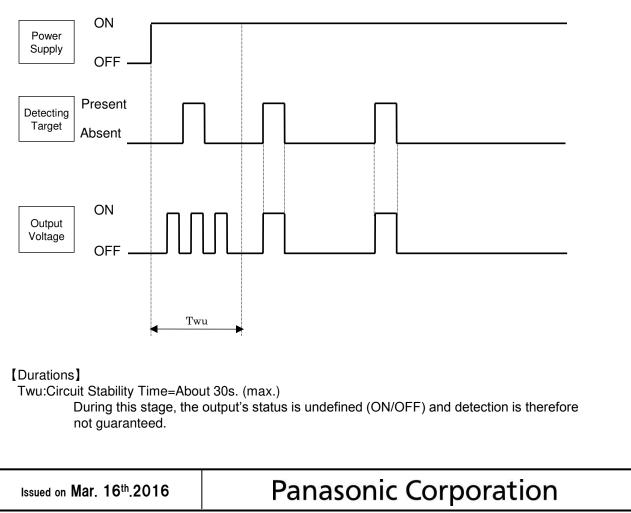
	Ver.1.2			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC169311	Page: 3

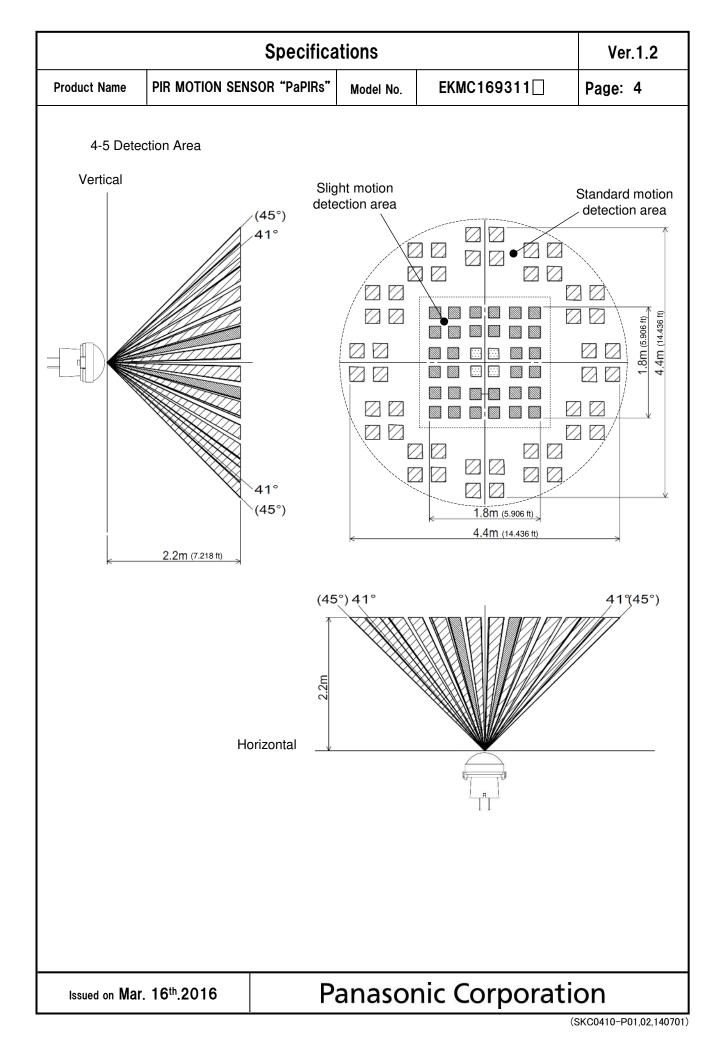
4-3 Electrical Characteristics

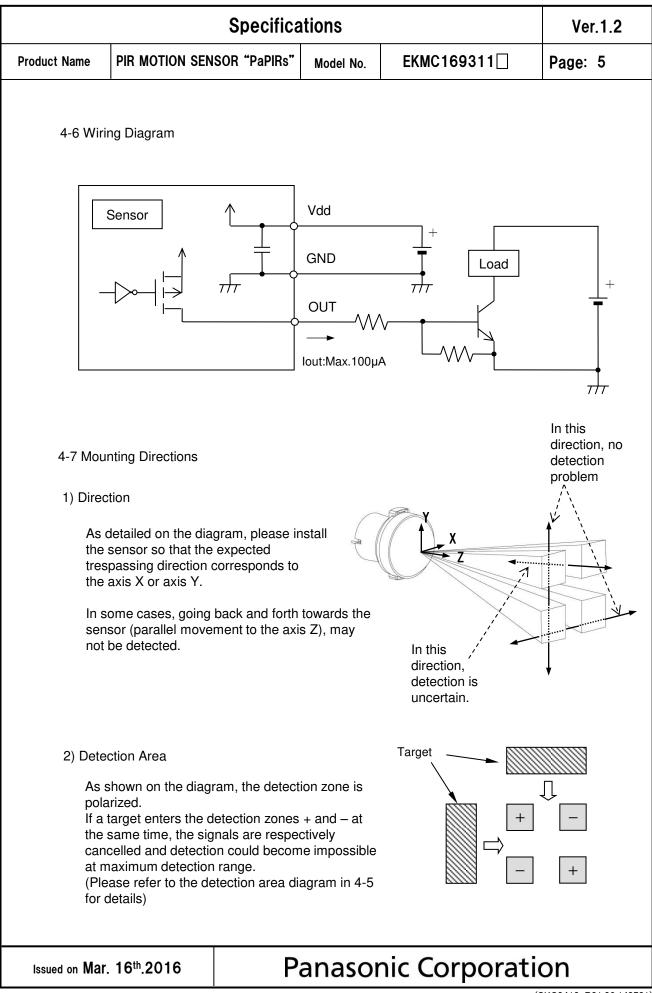
Conditions for Measuring: Ambient temperature=25°C(77°F)

	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	3.0	—	6.0	VDC	—
Electrical Current Consumption	lw	—	0.17	0.3	mA	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







(SKC0410-P01,02,140701)

Specifications				
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC169311	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

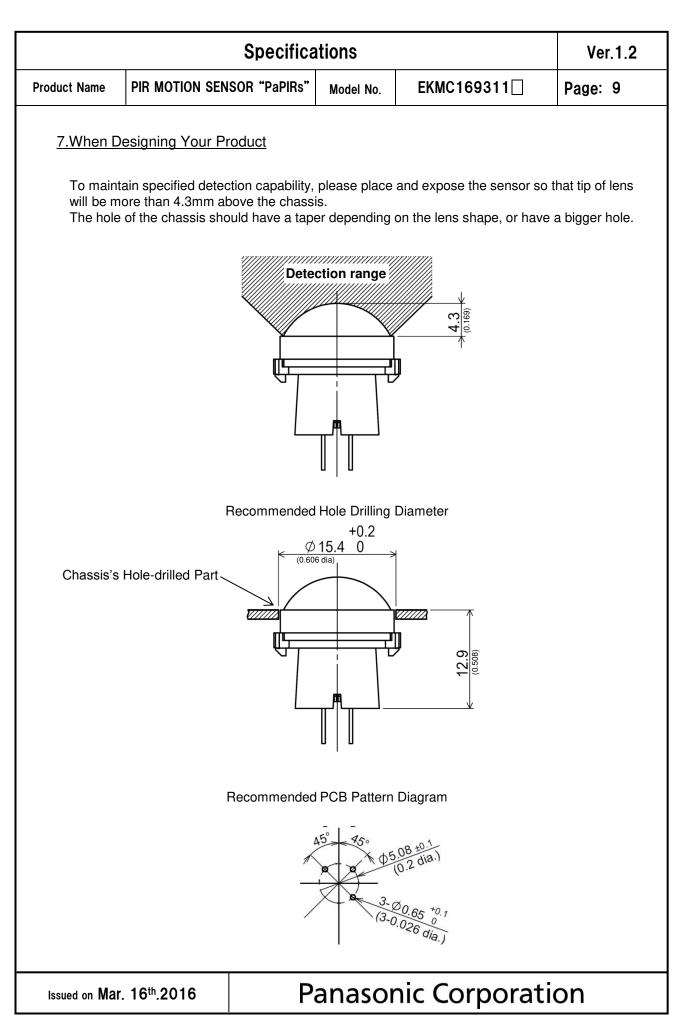
(SKC0410-P01,02,140701)

	Specifica	tions		Ver.1.2				
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC169311	Page: 7				
6.Operating	Precautions			L				
6-1 Basic F	Principles							
However, heat sour	PaPIRs is a pyroelectric infrared sensor that detects variations in infrared rays. However, it may not detect in the following cases: lack of movement, no temperature change in the heat source. Besides, it could also detect the presence of heat sources other than a human body. Efficiency and reliability of the system may vary depending on actual operating conditions:							
1) Detec	ting heat sources other than the I	human body,	such as:					
b) When beam c) Sudd	l animals entering the detection a n a heat source for example sun l hit the sensor regardless inside o en temperature change inside or HVAC, or vapor from the humidifi	light, incande: or outside the around the d	detection area.					
2) Difficu	Ity in sensing the heat source							
a cor b) Non-r	s, acrylic or similar materials stan rect transmission of infrared rays movement or quick movements o se refer to 4-1 for details about m	, f the heat sou	irce inside the detection are	-				
3) Expar	nsion of the detection area							
	of considerable difference in the n area may be wider apart from t	•		y temperature,				
4) Malfu	nction / Detection error							
output c	ssary detection signal might be o lue to the nature of pyro-electric on n strictly, please implement the c	element. Whe	en the application does not a	accept such				
6-2 Optim	al Operating Environment Condit	ions						
 Humic Press Overh This s moist 	erature : Please refer to the ma dity Degree :15~85% Rh (Avoid ure : 86~106kPa heating, oscillations, shocks can d sensor is not waterproof or dustpr ure, condensation, frost, containin use in environments with corrosi	d condensation cause the sen roof. Avoid using salt air or c	on or freezing of this product sor to malfunction. e in environments subject to					

Issued on Mar. 16th.2016

Panasonic Corporation

Product Name PIR MOTION SENSOR "PAPIRs" Model No. EKMC169311□ Page: 8 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) 6) When wring the product, always use shielded cables and minimize the wiring length to prevent noise disturbances. 7) 7) The inner circuit board could be destroyed by a voltage value indicated in the maximum rated values section. 8) 8) Please use a stabilized power supply voltage value indicated in the maximum rated values section. 9) 9) Dereting errors can be caused by noise, install a capacitor on the sensor's power supply pin. 9) 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. <tr< th=""><th></th><th></th><th></th><th>Specific</th><th>ations</th><th></th><th>Ver.1.2</th></tr<>				Specific	ations		Ver.1.2
 Do not solder with a soldering iron above 350°C (662° F), or for more than 3 seconds. This sensor should be hand soldered. To maintain stability of the product, always mount on a printed circuit board. Do not use liquids to wash the sensor. If washing fluid gets through the lens, it can reduce performance. Do not use a sensor after it fell on the ground. 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. When wiring the product, always use shielded cables and minimize the wiring length to prevent noise disturbances. 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 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. Operating errors can be caused by noise from static electricity, lightning, cell phone, amateur radio, broadcasting offices etc Detection performance can be reduced by dirt on the lens, please be careful. 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. 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 the product. Do not attempt to clean this product with any detergent or solvent, such as benzene or alcohol, as these can cause	Product Na	roduct Name PIR MOTION SEN		SOR "PaPIRs"	Model No.	EKMC169311	Page: 8
 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 : ±200 roles (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. 12) Operating "temperatures" and "humidity level" are suggested to prolong usage. However, they de not guarantee durability or environmental resistance. Generally, high temperatures or high humidity levels will accelerate the deterination of electrical components. Please consider both the planned usage and environment to determine the expected reliability and length of life of the product. 13) Do not attempt to clean this product with any detergent or solvent, such as benzene or alcohol, as th	6-3	Handli	ing Cautions				
 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. 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. 13) 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. 14) Avoid storage in high, low t	1)						
 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. 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. 13) 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. 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 deterior	2)	To ma	aintain stability of t	ne product, al	ways mount or	n a printed circuit board.	
 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. 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. 13) 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. 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 meta	3)			sh the sensor	. If washing flu	id gets through the lens, it c	an reduce
 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. 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75%<td>4)</td><td>Do no</td><td>t use a sensor afte</td><th>er it fell on the</th><th>ground.</th><th></th><td></td>	4)	Do no	t use a sensor afte	er it fell on the	ground.		
 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. 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	,		•			-	nd contact with
 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. 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	6)		• •	, always use	shielded cable	s and minimize the wiring le	ngth to prevent
 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. 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	7)	is hig	hly recommendec e resistance : be	low the powe			
 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. 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	8)	Noise	resistance : ± 2	0V or less (S	quare waves w	vith a width of 50ns or 1µs)	
 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. 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. 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. Storage conditions Temperature: 45 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 		•	-	•	vise from static	electricity, lightning, cell pho	one, amateur
 might change its shape, causing operating errors or reduced performance. 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	10)	Detec	tion performance	can be reduce	ed by dirt on th	e lens, please be careful.	
 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. 13) 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. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	11)			,	,		r impacts that
 as these can cause shape or color alterations. 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. 15) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	12)	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					
 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) Storage conditions Temperature: +5 ~ +40°C (+41 ~ +104° F) Humidity: 30 ~ 75% 	13)						
Temperature: $+5 \sim +40^{\circ}$ C ($+41 \sim +104^{\circ}$ F) Humidity: $30 \sim 75\%$	14)	environments containing corrosive gas, dust, salty air etc. It could cause performance					
	15)	Temperature: $+5 \sim +40^{\circ}$ C ($+41 \sim +104^{\circ}$ F) Humidity: $30 \sim 75\%$					



(SKC0410-P01,02,140701)

	Ver.1.2			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC169311	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.

Panasonic Corporation