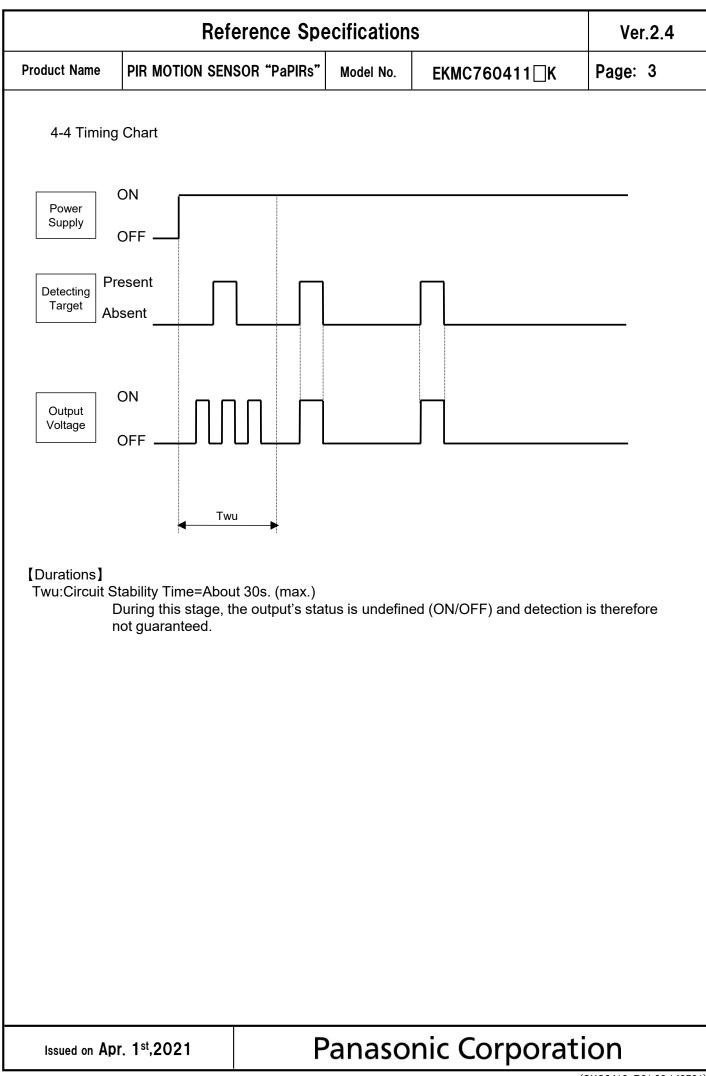
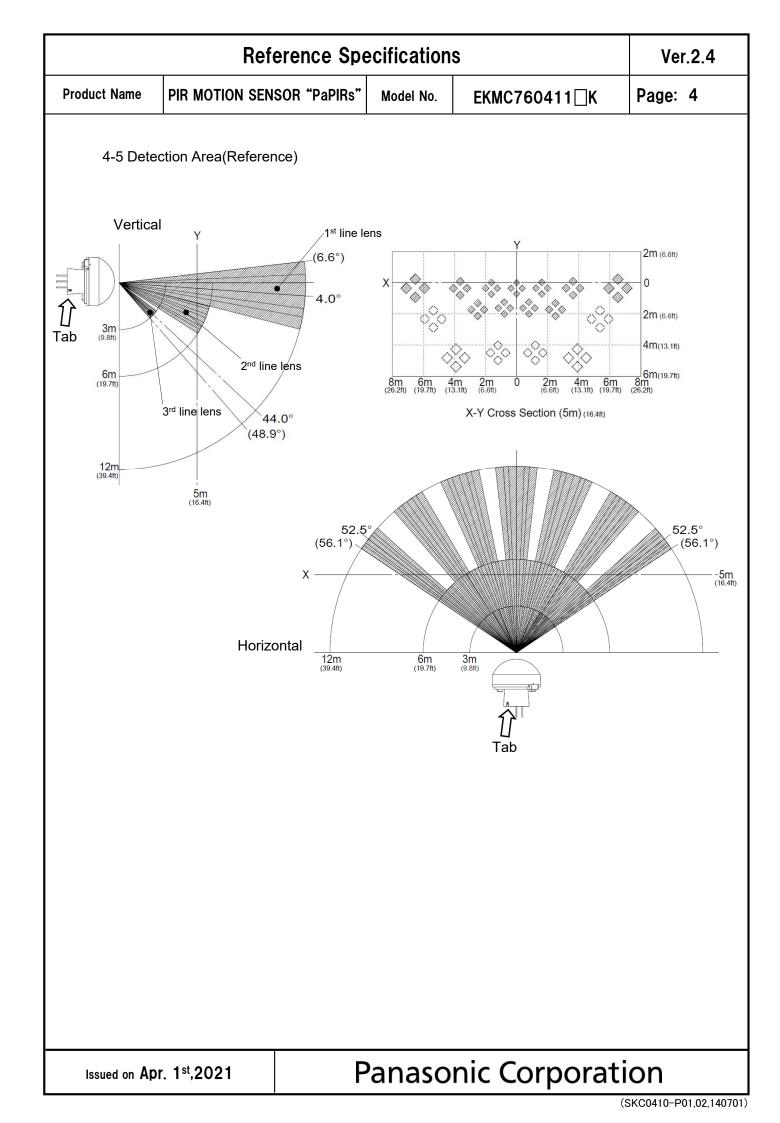
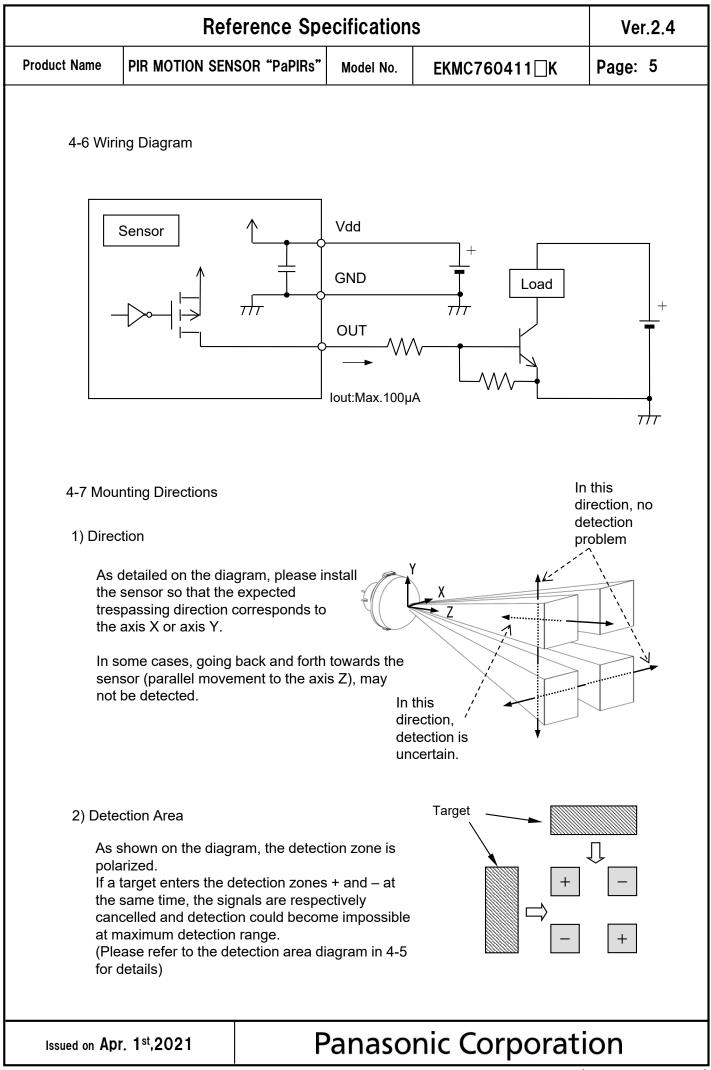


⁽SKC0410-P01,02,140701)

Reference Specifications							Ve	r. 2.4		
Product Name	Name PIR MOTION SENSOR "Pa				Model No.	EKN	MC76041	1 ∐K	Page:	2
4.Characte	eristic	<u>s</u>								
		Performanc		bient te	mperature=	=25°C(77	°F) Opera	ating volta	ge=5VDC	;
			Tempera Differe		Value	Cond	ditions con	cerning th	e target]
		1 st line	16°C(28.8°F) 8°C(14.4°F)		up to 17m					
() -1	- 1)	lens			up to 12m		.Movement speed: 1.0m/s			
(Not Dete	,	2 nd line	16°C(28	.8°F)	up to 8m	-	arget concept is human body			
Rar		lens	8°C(14.	4°F)	up to 6m	(Size:Around 700 × 250mm) 3.Cross perpendicularly for the de		e detection		
		3 rd line	16°C(28		up to 4m	zone		-		
		lens	8°C(14.	,	up to 3m					
Note1	•	nding on th tion range	•		ifference be	etween th	ne target a	nd the sur	roundings	S,
					Value		Notes			
		Horizo	Horizontal		°(±52.5°)					1
Detection Area		Vertical			40 [°]	Refer t	Refer to the section 4-5.			
	Detection zo		n zones	68						
4-2 Maxir	num F	Rated Valu	es			-				
				Value L			Jnit	1		
Р	Power Supply Voltage			-0.3~7.0 V			/DC	1		
Usab	Usable Ambient Temperature			-20 \sim +60°C (-4 \sim +140°F) Do not use in a freezing or condensation environment						
S	Storage Temperature -20~+70°C (-4~+158°F)									
4-3 Electrical Characteristics Conditions for Measuring: Ambient temperature=25°C(77°F)								4		
				Symbo	l Min	Avg.	Max	Unit	Special n	nentio
	Operating Voltage		Vdd	3.0	_	6.0	VDC	_		
Electr	Electrical Current Consumption			lw	_	170	300	μA	lout	=0
	Output Current			lout	_	_	100	μA	Vout≧Vo	ld-0.
	Output Voltage			Vout	Vdd-0.5	_	_	VDC		
	Circuit Stability Time (when voltage is applied)			Twu	_		30	S		
Issued on Apr	. 1 st ,2	2021		Ρ	anaso	onic	Corp	orat	ion	







⁽SKC0410-P01,02,140701)

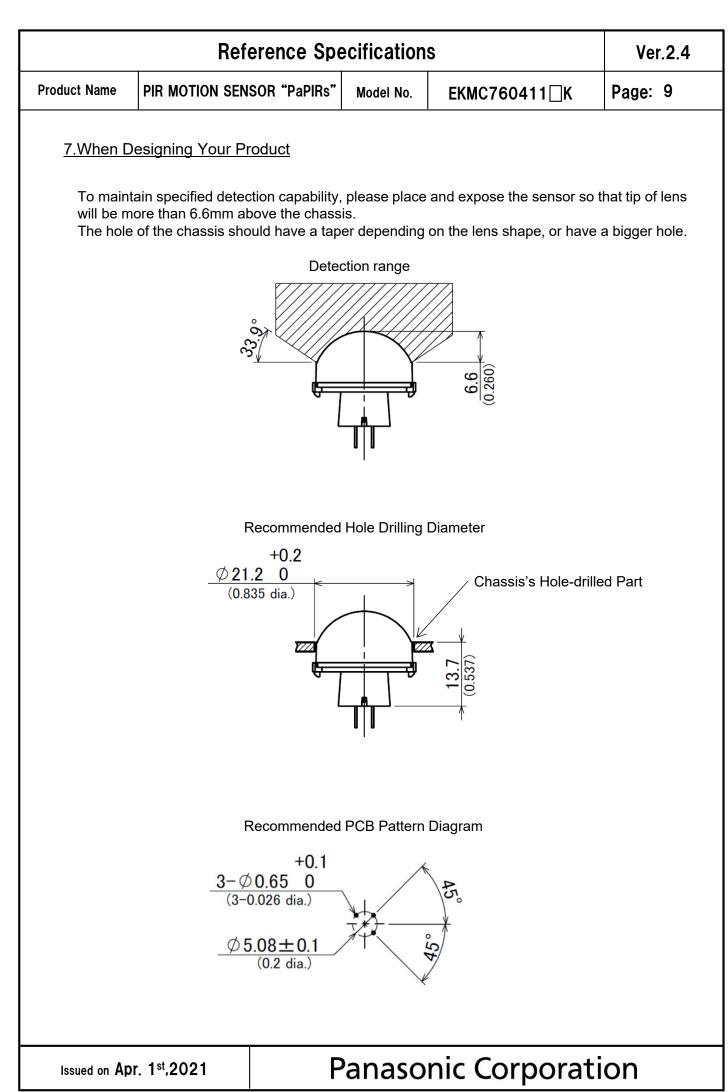
	Reference Specifications				
Product Name	duct Name PIR MOTION SENSOR "PaPIRs" Model No. EKMC760411 K				
 Head the for 1) Do not usenvironing Using the generated circuitry 2) Our come Neverthed a product after successful conjunct accident 3) Before of specificat Mistakes abnormation 4) Do not usen 	Precautions ollowing precautions to prevent injuse these sensors under any circunent conditions or other specificate e sensors in any way which cause a abnormally high levels of heat, e and possibly causing an accident opany is committed to making pro- eless, all electrical components are to will depend on the operating envel th deterioration could lead to over- ion with proper fire-prevention, sa s, reduction in product life expects connecting, check the pin layout by ations diagram, etc., to verify that the s made in connection may cause us ally high levels of heat, emit smoke use any motion sensor which has layond and the short-circ	imstance in w ions are exce es their specifient smoke, e ducts of the h re subject to re vironment and heating, smol afety and mair ancy or break y referring to the connector unforeseen pre e, etc., resulti been disasse	which the range of their ratio eeded. fications to be exceeded m tc., resulting in damage to ighest quality and reliabilit natural deterioration, and d d conditions of use. Contin ke or fire. Always use the p ntenance measures to avo k-down. the connector wiring diagra- is connected properly. roblems in operation, gene ng in damage to the circui mbled or remodeled.	ay the y. urability of ued use product in id am, erate try.	
If this se possible	nsor is to be used in equipment w effects of these failures on the eq g protection circuits or protection o e :	/here safety is quipment cond devices.	s a prime consideration, ex	amine the	
	 Safety equipments and dev 	vices			

Panasonic Corporation

	Ver.2.4							
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760411 []K	Page: 7				
6.Operating	Precautions							
6-1 Basic I	Principles							
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) Detect	1) Detecting heat sources other than the human body, such as:							
b) Whe beam c) Sudo	l animals entering the detection a n a heat source for example sun hit the sensor regardless inside len temperature change inside or HVAC, or vapor from the humidif	light, incande or outside the r around the d	detection area.					
2) Difficu	2) Difficulty in sensing the heat source							
a cor b) Non-	 a) Glass, acrylic or similar materials standing between the target and the sensor may not allow a correct transmission of infrared rays, b) Non-movement or quick movements of the heat source inside the detection area. (Please refer to 4-1 for details about movement speed.) 							
3) Expan	3) Expansion of the detection area							
	In case of considerable difference in the ambient temperature and the human body temperature, detection area may be wider apart from the configured detection area.							
4) Malfur	4) Malfunction / 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 Conditi	ions						
2) Humid 3) Pressu	erature : Please refer to the ma ity Degree :15~85% Rh (Avoic ure : 86~106kPa	d condensation	n or freezing of this product)					
 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. 								
o) Avold	6) Avoid use in environments with corrosive gases.							

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	Reference Specifications					
Product Name	Product Name PIR MOTION SEN		Model No.	EKMC760411	Page: 8	
6-3 Han	dling Cautions					
,	not solder with a so s sensor should be	0	ove 350°C (662	2 [°] F), or for more than 3 sec	onds.	
2) To	maintain stability of	the product, alv	ways mount or	n a printed circuit board.		
,	not use liquids to wa formance.	ash the sensor.	If washing flu	id gets through the lens, it o	can reduce	
4) Do	not use a sensor af	ter it fell on the	ground.			
,	e sensor may be dar pins and be very ca	• •		c electricity. Avoid direct ha duct.	nd contact with	
,	en wiring the produces.	ct, always use s	shielded cable	s and minimize the wiring le	ength to prevent	
is	highly recommende irge resistance : b	d.		age surge. Use of surge abs le value indicated in the ma		
No	ise resistance $:$ ±	20V or less (Sc	quare waves w	r noise can cause operating vith a width of 50ns or 1μs) capacitor on the sensor's p		
, ,	erating errors can be io, broadcasting offi	•	ise from static	electricity, lightning, cell pr	none, amateur	
10) De	tection performance	e can be reduce	d by dirt on th	e lens, please be careful.		
				Please avoid adding weight or reduced performance.	or impacts that	
no hu the	t guarantee durabilit midity levels will acc	y or environme	ntal resistance erioration of e	uggested to prolong usage. e. Generally, high temperat lectrical components. Pleas ne expected reliability and le	ures or high e consider both	
•	not attempt to clear these can cause sha	-		ent or solvent, such as ben	zene or alcohol,	
env	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.					
,	orage conditions Temperature: Humidity: ease use within 1 ye	30 ~ 75%		.)		
Issued on <i>i</i>	Apr. 1 st ,2021	F	Panaso	nic Corporat	ion	



	Ver.2.4			
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC760411	Page: 10

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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