Specifications				Ver.1.1
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMC269111□K	Page: 1

1.Product Name

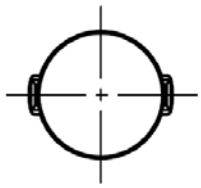
PIR MOTION SENSOR "PaPIRs"
VZ series・Slight motion detection type （170μA / Analog output）

2.Model Number

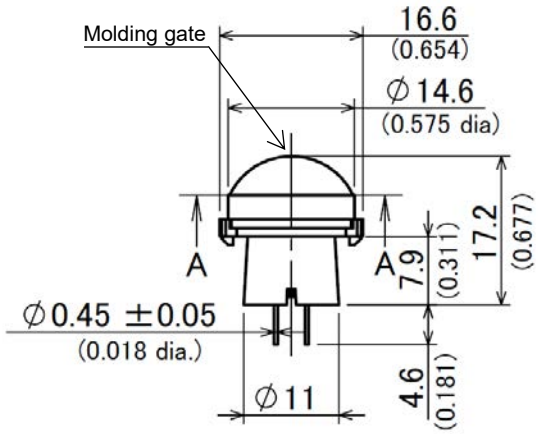
Lens Color	Model Number
White	EKMC2691111K
Black	EKMC2691112K
Pearl White	EKMC2691113K

3.Dimensions

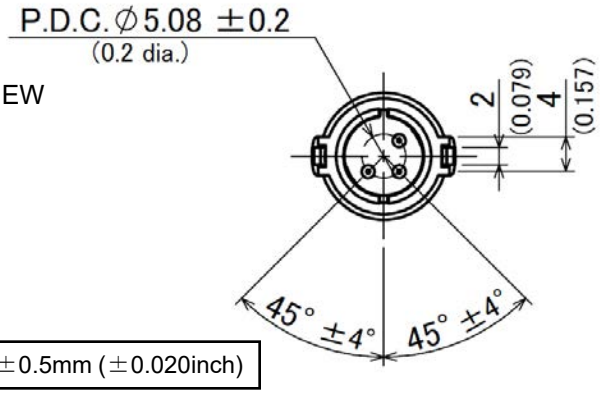
Top VIEW



Side VIEW

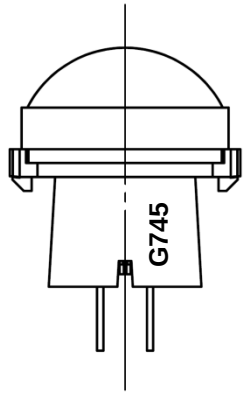


Bottom VIEW



General Tolerance ±0.5mm (±0.020inch)

Marking



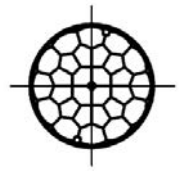
G 7 45
a) b) c)

a) The Marking which was shown by a list shown below

Marking	Model Number
A	EKMC169111□
B	EKMB139111□K
C	EKMB119111□
D	EKMB129111□
E	EKMB269111□
F	
G	EKMC269111□K
H	EKMC469111□K
I	
J	
K	

b) Last-digit of the year
(Ex:2017=7,2018=8,…)

c) Lot No.
1st week of Jan. will be 01, and further No. of 02,03, will continue up to 53.



SECTION A-A

Panasonic Corporation	Approved by	
	Checked by	
Issued on Mar. 27th,2018	Designed by	

4.Characteristics

4-1 Detection Performance

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

		Value	Conditions concerning the target
※Detection Sensitivity		±0.22V≦	1.The temperature difference between the target and the surroundings should be superior to 4℃.(7.2° F) 2.Movement speed: 0.5m/s 3.Target concept is human head (Size:Around 200×200mm) 4.Detection range is 2.5m.
Detection Area	Horizontal	97° (±48.5°)	
	Vertical	97° (±48.5°)	
	Detection zones*	112	

※The detection range is about 2.5m however, depending on the target's speed and its temperature difference with the surroundings, detection can occur at a range superior to the value above. Therefore, before using, please confirm the detection characteristics under the usage environment.

*Refer to the "detection area" diagram in section 4-5.

4-2 Maximum Rated Values

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

4-3 Electrical Characteristics

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

Subject		Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage		Vdd	3.0	—	5.5	VDC	—
Electrical Current Consumption		Iw	—	170	350	μA	Iout=0
Output Current		Iout	—	—	200	μA	—
Analog Output Saturated Voltage	High	Vh	1.9	—	—	V	—
	Low	Vl	—	—	0.2	V	—
Output offset average voltage		Vos	1.0	1.1	1.2	V	Steady-state output voltage when not detecting.
Steady-state noise		Vn	—	80	150	mV	—
Circuit Stability Time (when voltage is applied)		Twu	—	—	30	s	—