Specifications				Ver.1.1
Product Name	PIR MOTION SENSOR "PaPIRs"	Model No.	EKMB139111□K	Page: 1

1.Product Name

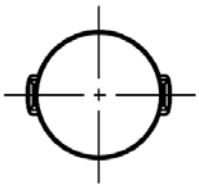
PIR MOTION SENSOR "PaPIRs"
WL series・Slight motion detection type （6μA / Digital output）

2.Model Number

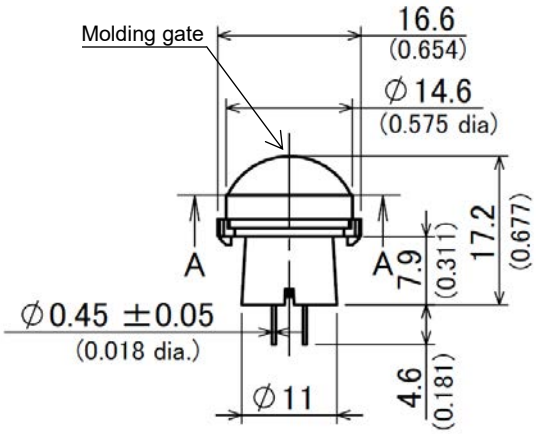
Lens Color	Model Number
White	EKMB1391111K
Black	EKMB1391112K
Pearl White	EKMB1391113K

3.Dimensions

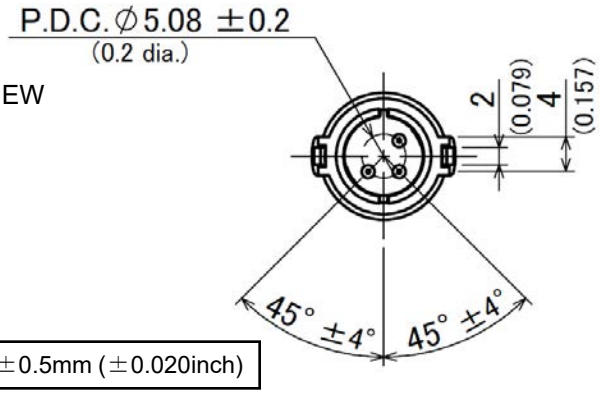
Top VIEW



Side VIEW

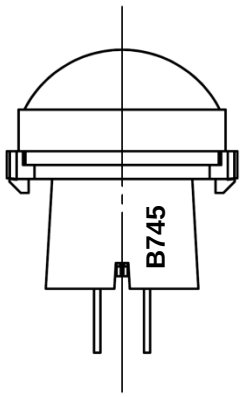


Bottom VIEW



General Tolerance ±0.5mm (±0.020inch)

Marking



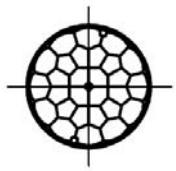
B 7 45
a) b) c)

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. 29th,2018	Designed by	

4.Characteristics

4-1 Detection Performance

Conditions for measuring: Ambient temperature=25℃(77° F) Operating voltage=3VDC

	Temperature difference	Value	Conditions concerning the target
(Note1) Detection Range	8℃(14.4° F)	Max 3.5m	1.Movement speed: 0.5m/s 2.Target concept is human head (Object size:Around 200×200mm)
	4℃(7.2° F)	Max 2.5m	

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

		Value	Notes
Detection Area	Horizontal	97° (±48.5°)	Refer to the section 4-5.
	Vertical	97° (±48.5°)	
	Detection zones	112	

4-2 Maximum Rated Values

	Value	Unit
Power Supply Voltage	-0.3～4.5	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)

	Symbol	Min	Avg.	Max	Unit	Special mention
Operating Voltage	Vdd	2.3	—	4.0	VDC	—
Electrical Current Consumption	Iw	—	6	12	μA	Iout=0
Output Current	Iout	—	—	100	μA	Vout≧Vdd−0.5
Output Voltage	Vout	Vdd−0.5	—	—	VDC	—
Circuit Stability Time (when voltage is applied)	Twu	—	—	10	s	This is when temperature of the sensor is stable.