

## New Product Introduction

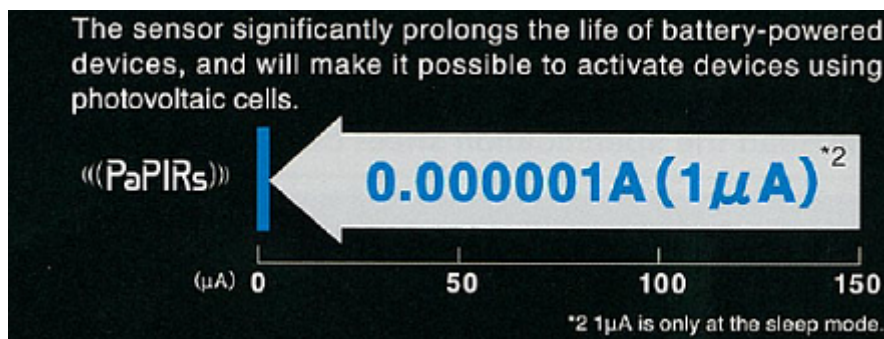
July 8, 2010

### PaPIRs – Passive Infrared Motion Sensor



#### 1. Features:

- Low Current Consumption




## - Thin Profile and Flat Lens with Small Diameter

The 6-mm-high sensor incorporates a flat lens with an effective diameter of 3 mm and a built-in detection circuit (\*1). The flat lens makes it possible to realize the streamlined designing of devices, and is ideal for space-limited, thin-profile, and compact devices.

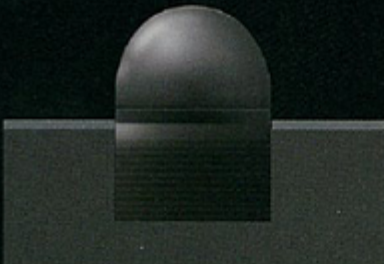
\*1 The height of the sensor does not include the lead wires. The lens diameter applies to models of silicon lens type.

Effective diameter of lens (3mm)

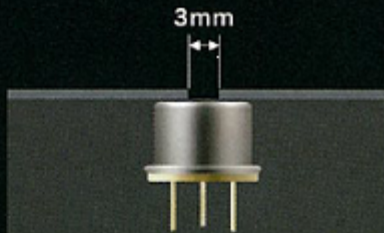


**An aperture is required with a diameter as small as 3 mm. The lens does not protrude from the surface of the product.**

A standard sensor example



PaPIRs Motion Sensor (Silicon lens type)



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## 2. Applications:




- Security & Wireless Devices
- Housing & Commercial Equipment
- Home Appliances (Energy Savings)

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## 3. Release Schedule:

- Available July 2010
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#### 4. Ordering Information:

Lens type	Current consumption	Lens color	Model
Silicon lens type 	1 $\mu$ A	—	EKMA1102120
	2 $\mu$ A		EKMA1202120
	6 $\mu$ A		EKMA1302120
Polyethylene lens type  	1 $\mu$ A	White	EKMA1101111
		Black	EKMA1101112
	2 $\mu$ A	White	EKMA1201111
		Black	EKMA1201112
	6 $\mu$ A	White	EKMA1301111
		Black	EKMA1301112

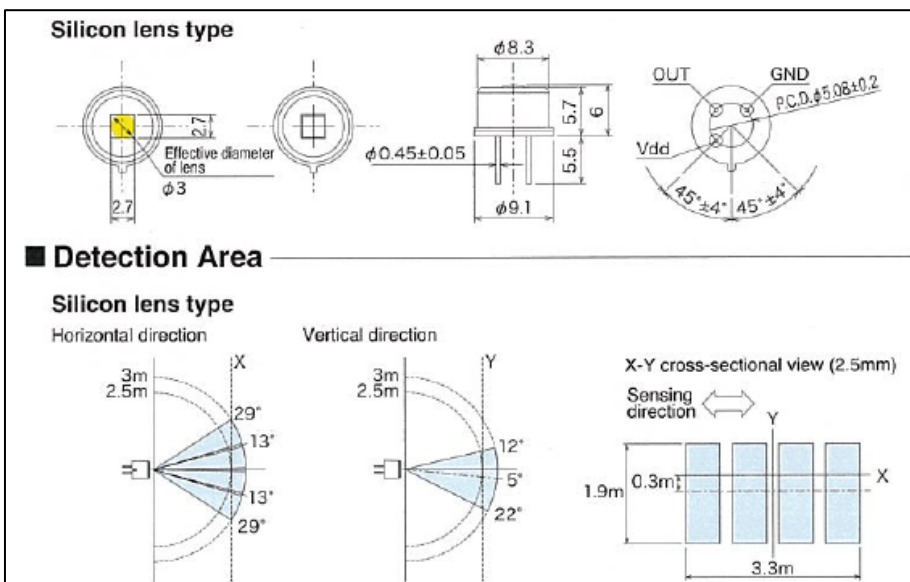
\* Each model is shipped in units of 50 products in carton box, and carton boxes are put together in a larger carton box that contains a total of 1,000 products.

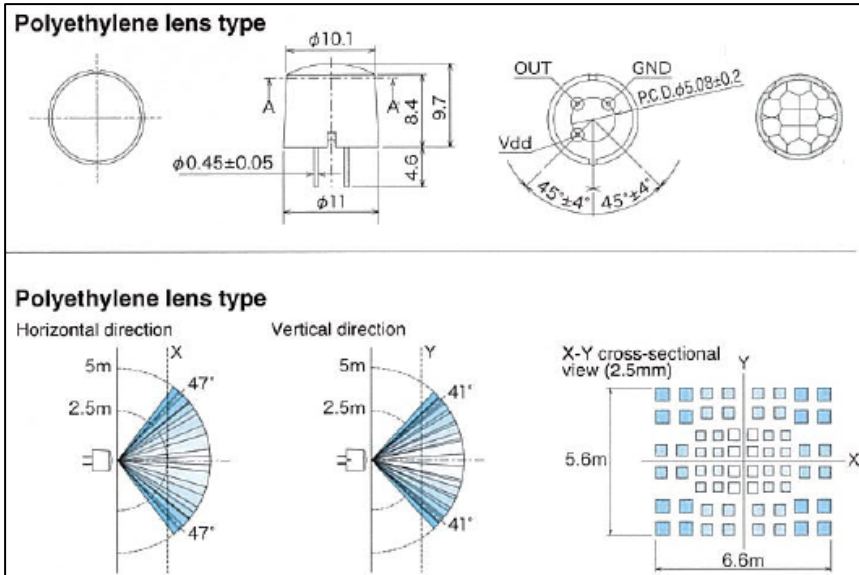
#### 5. Technical Information: PDF datasheet attached.

		Models classified by current consumption		
		1- $\mu$ A type	2- $\mu$ A type	6- $\mu$ A type
Operating voltage		3~5 VDC		
Current consumption(*)	Sleep mode	1 $\mu$ A(Typ.)	—	—
	Standby mode	2 $\mu$ A(Typ.)	2 $\mu$ A(Typ.)	6 $\mu$ A(Typ.)
Output current		100 $\mu$ A(Max)		
Output voltage		Vdd-0.5 VDC (Max)		
Stabilization time for power supply circuit		210 s(max.)	25 s(typ.)	30 s(max.)
Operating temperature		-20°C~60°C		

Sensing conditions concerning target: 1. A difference in temperature of 4°C or more from the background. 2. A movement speed of 1.0 m/s. 3. Humans (with an expected size of 700 x 250 mm).

\* While the sensor is in sleep mode, the preliminary sensing of a human body will be possible with the current consumption lowered. When the sensor detects the human body, the current consumption will increase immediately and the sensor will go into standby mode.





Any questions, please contact your local Panasonic Electric Works Sales representatives.

Ref#: M-PaPIRs0710