# EKMC (VZ) series



## Current 170µA

**Digital output** 

> Economy type suitable for a wide range of applications

### Recommended applications

Lighting control, lighting equipment, heaters, ventilators or air conditioners, security equipment for IP cameras, intrusion alarms, digital signage, vending machines, multi-function printers, display panels for meeting rooms, PCs

Lensless type available

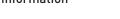
170µA type: EKMC1600100

## Specifications

Detection performance	Model no.	Current consumption	Lens color	Output type	Detection distance	Detection area		Detection
						Horizontal	Vertical	zones
Standard detection type	EKMC1601111	170μΑ	White	Digital	5m	94° (106°)	82° (97°)	64
iii iii iii iii	EKMC1601112		Black					
	EKMC1601113		Pearl white					
Long distance detection type	EKMC1603111		White		12m	102° (108°)	92° (99°)	92
	EKMC1603112		Black					
	EKMC1603113		Pearl white					
Wall installation type	EKMC1604111		White		12m (1st step lens) 6m (2nd step lens) 3m (3rd step lens)	40° (55,6°)	105° (112°)	68
	EKMC1604112		Black					
	EKMC1604113		Pearl white					

EKMC16

#### Ordering information



PaPIRs motion sensor —

- Detection(Lens) —
- 00: Lensless / 01: 5m distance standard /
- 03: 12m long distance / 04: Wall installation type

## Characteristics

### > Maximum rated values

Items	Value			
Power supply voltage	-0.3 to 7V			
Ambient temperature	-20 to +60°C (no frost, no condensation)			
Storage temperature	-20 to +70°C			

### > Electrical characteristics

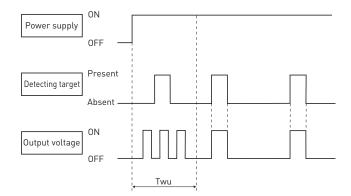
Items		Symbol	EKMC(VZ) type	Conditions					
Operating voltage	Max	Vdd	6.0V						
Operating voltage	Min	vuu	3.0V	_					
Current consumption (in standby mode) Note 1)	Ave	lw	170µA	Ambient temperature: 25°C lout=0 Vdd: 5V					
Output current (during detection) Note 2)	Max	lout	100µA	Ambient temperature: 25°C Vout≧Vdd-0.5					
Output voltage (during detection period) Min		Vout	Vdd · 0.5V	Ambient temperature: 25°C Open at no detection					
Circuit stability time (when voltage is applied)	Max	Twu	30 sec	Ambient temperature: 25°C lout=0 Vdd: 5V					

Note 1) Current consumption during detection period is the total value of current consumption in standby mode add to output current.

Note 2) Please select an output resistors (pull-down concept) in accordance with Vout so that the output current is lower than or equal to 100µA. If the output current is more than 100µA, this may cause false alarms.

# Timing chart

1



Lens color

Lens

0: Lensless / 1: White /

2: Black / 3: Pearl white

0: Lensless / 1: with lens

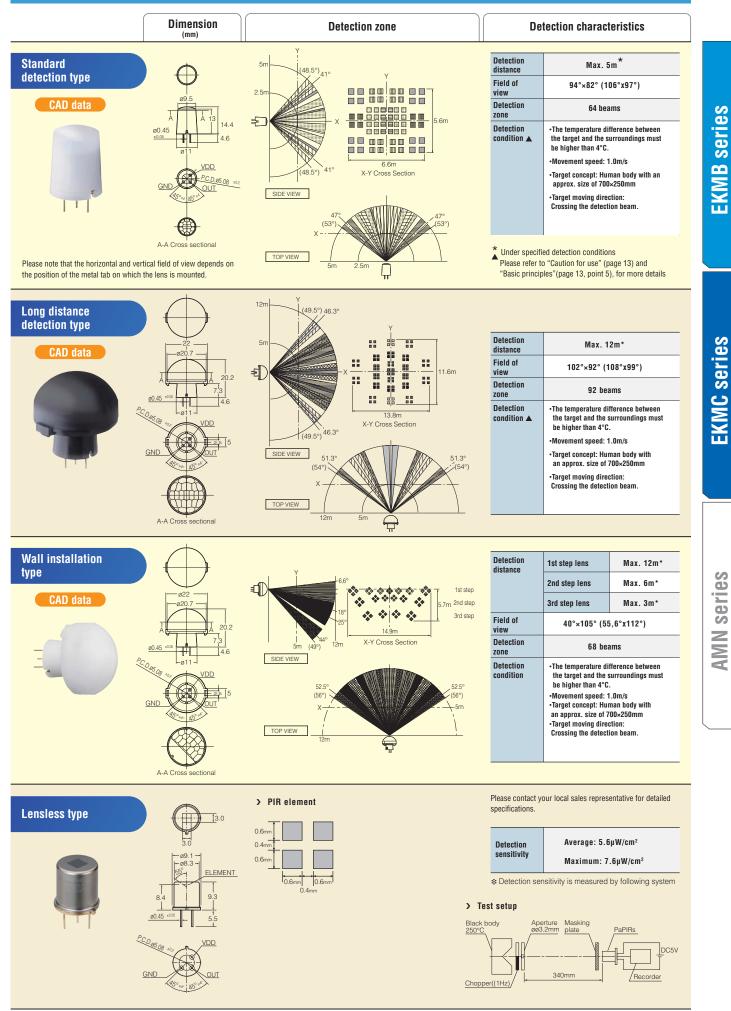
[Explanation of the timing] Twu: Circuit stability time: max. 30 sec

During this stage, the output's status is undefined (ON/OFF) and detection is therefore not guaranteed.

**EKIMC series** 

**AMN series** 

## Lenses for the EKMB/EKMC series



CAD data CAD data can be downloaded from the (((PaPIRs))) PaPIRs WEB site. Please refer to the formal specification for the dimension, and the tolerance. Panasonic PaPIRs Search