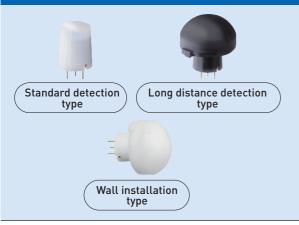
EKMC(VZ)series



Current Consumption 170µA Digital output

OEconomy type suitable for a wide range of applications

Recommended applications

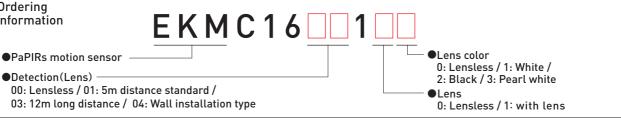
Lighting control, lighting equipment, heaters, ventilators or air conditioners, security equipment for IP cameras, intrusion alarms, digital signage, vending machines, multi-function printers, display panels for meeting rooms, PCs

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	170µA	White	Digital	5m	94°	82°	64
	EKMC1601112		Black					
	EKMC1601113		Pearl white					
Long distance detection type	EKMC1603111		White		12m	102°	92°	92
	EKMC1603112		Black					
	EKMC1603113		Pearl white					
Wall installation type	EKMC1604111		White		12m (1st step lens) 6m (2nd step lens) 3m (3rd step lens)	40°	105°	68
	EKMC1604112		Black					
	EKMC1604113		Pearl white					





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℃				

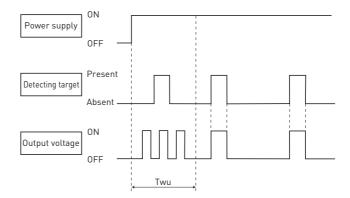
Electrical characteristics

ltems		Symbol	EKMC (VZ) type	Conditions		
Operating	Max	Vdd	6.0V	_		
voltage	Min	vaa	3.0V			
Current consumption (in standby mode) Note 1)	Ave	Iw	170µA	Ambient temperature: 25°C lout=0 Vdd: 5V		
Output current (during detection) Note 2)	Max	lout	100µA	Ambient temperature: 25℃ 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 $100\mu A$, this may cause false alarms.

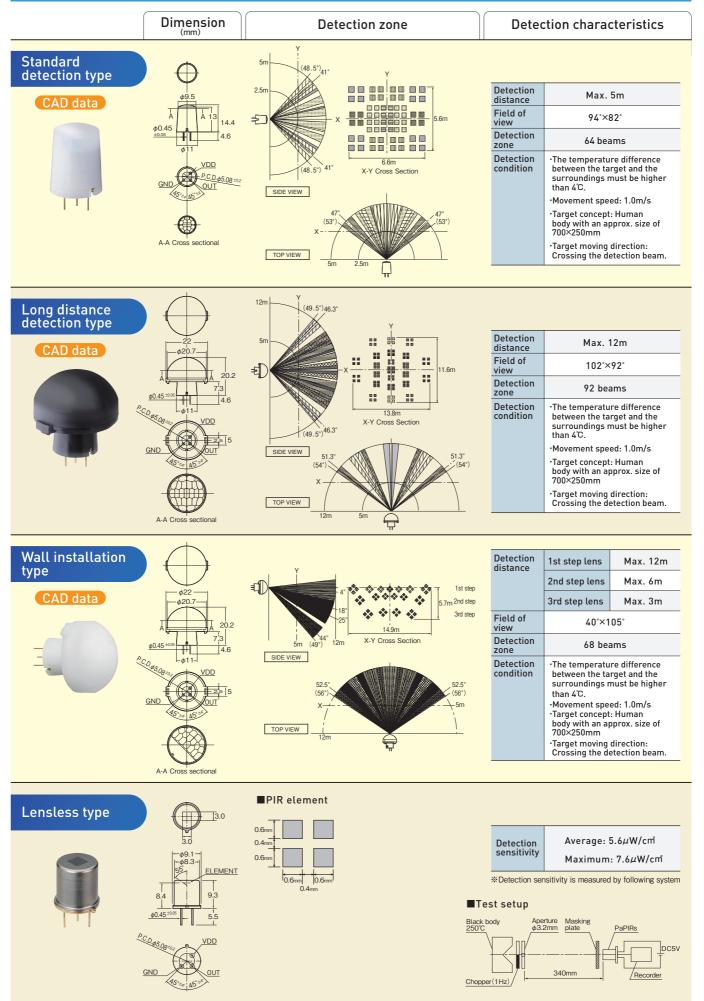
Timing chart



[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.

Lenses for the EKMB/EKMC series



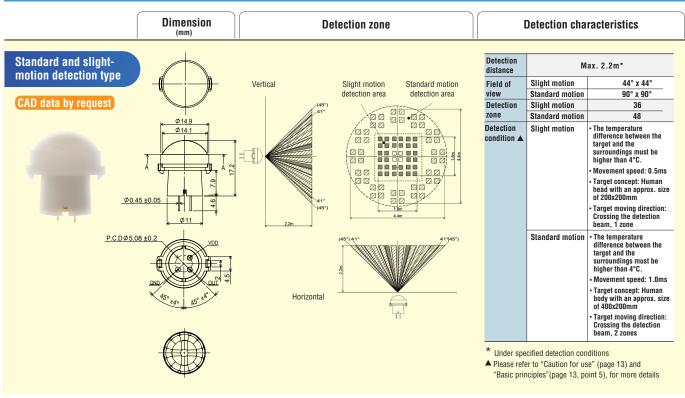
CAD data CAD data can be downloaded from the «(PaPIRs)» PaPIRs WEB site. Panasonic PaPIRs Search

Please refer to the formal specification for the dimension, and the tolerance *Please note that the horizontal and vertical field of view depends on the position of the metal tab on which the lens is mounted.

SATURN LENS -NEW **Dual zone** 90° 90° Standard motion 44°_<u></u>44° detection area 2.2m 1.8m ø4.4m Slight motion detection area Standard and slight-motion detection type Choose by the current consumption in standby mode (1µA type: in sleep mode) 170µA ▶ 1µA 2µA 6µA Choose by output Digital Digital Analog

	•		Digital		, indiag	
Choose by lens color	White	EKMB1193111	EKMB1293111	EKMB1393111K	EKMC1693111	By request
	Black	EKMB1193112	EKMB1293112	EKMB1393112K	EKMC1693112	By request
	Pearl white	EKMB1193113	EKMB1293113	EKMB1393113K	EKMC1693113	By request

Saturn lens



Please contact your local sales representative for detailed specifications.