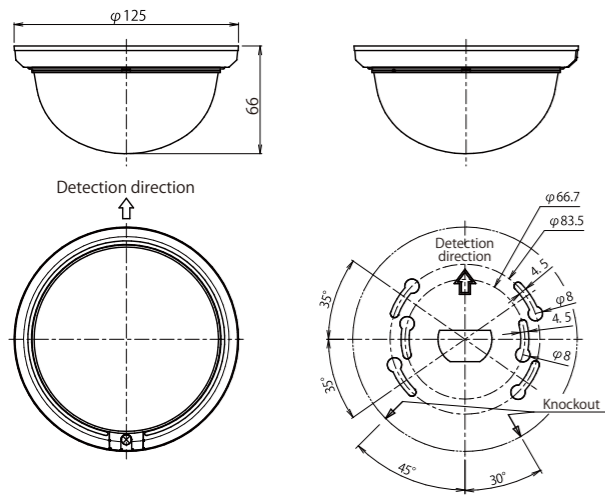


Dimension

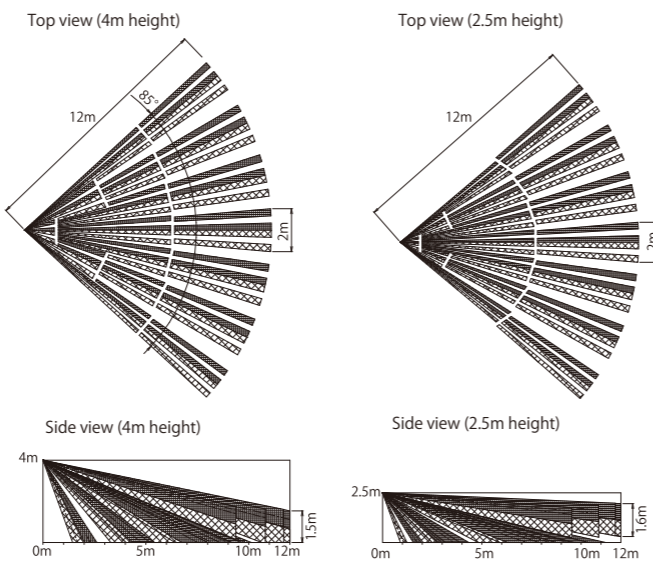


Specifications

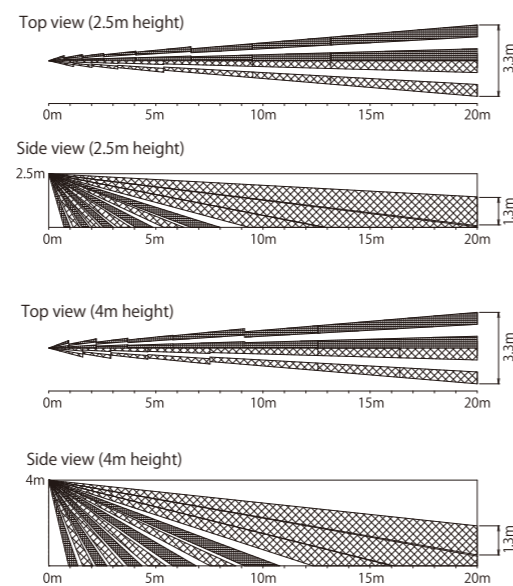
Model name	PIR detector		
Model number	IR81A	IR82A	
Input voltage	DC9 ~ 28V (No Polarity)		
Current consumption	8 mA (Max.)		
Operation temp.& humidity	-20 ~ +50°C less than 95% RH		
Storage temp. & humidity	-20 ~ +60°C less than 95% RH		
Detection Area Height : 4m	Standard	12m 85°	20m 9.5°
	Extra wide	15m 85°	25m 9.5°
Detection zone (Sector)	17 pairs (68)	7.5 pairs (30)	
Detection method	Passive Infrared		
Indication LED	at power on	Alarm (Red) flashes (1 time / Sec)	
	at detection	Alarm (Red) lights	
	Memory	Memory (Orange) lights	
	Self diag.	Alarm (Red) flashes (1 time / Sec)	
Alarm out (1a / 1b)	Output time	2 / 1 Sec selectable	
	Relay spec	DC30V 0.1A (Resister load)	
	Output resistor	Less than 4.5 Ω	
Detection Speed	0.3 m - 2.0 m / Sec		
Detection sensitivity	1.5 °C (2.0 °C at Extra wide mode)		
Mirror adjustment	27° Vertical direction		
Installation place	Ceiling (height : 2.3 m - 4.0 m)		
Weight	190 g		
Color	White		

Detection area

IR81A (Volumetric area)



IR82A (Curtain area)



Option parts

IR80LB	Large base
IR80TP	Tamper switch
IR1020	Wall mount bracket



ZERO Watcher

PIR Detector IR81A IR82A

Adopted **4 mirrors system** first in industry !
Achieved ZERO false alarm under different environment
by separating the function of the mirror for long and
short range.

ZERO of ZERO WATCHER means zero false alarms.

The system to eliminate false alarms factor caused by small animals is incorporated and combined with conventional high detectivity, provides high level intrusion protection.

<http://www.atsumielectric.com>

ATSUMI ELECTRIC CO.,LTD

4-2-2 Shin-Miyakoda Kita-Ku Hamamatsu, Shizuoka, Japan 431-2103
TEL:+81-53-428-4116 FAX:+81-53-428-4119 E-Mail:international@atsumi.co.jp



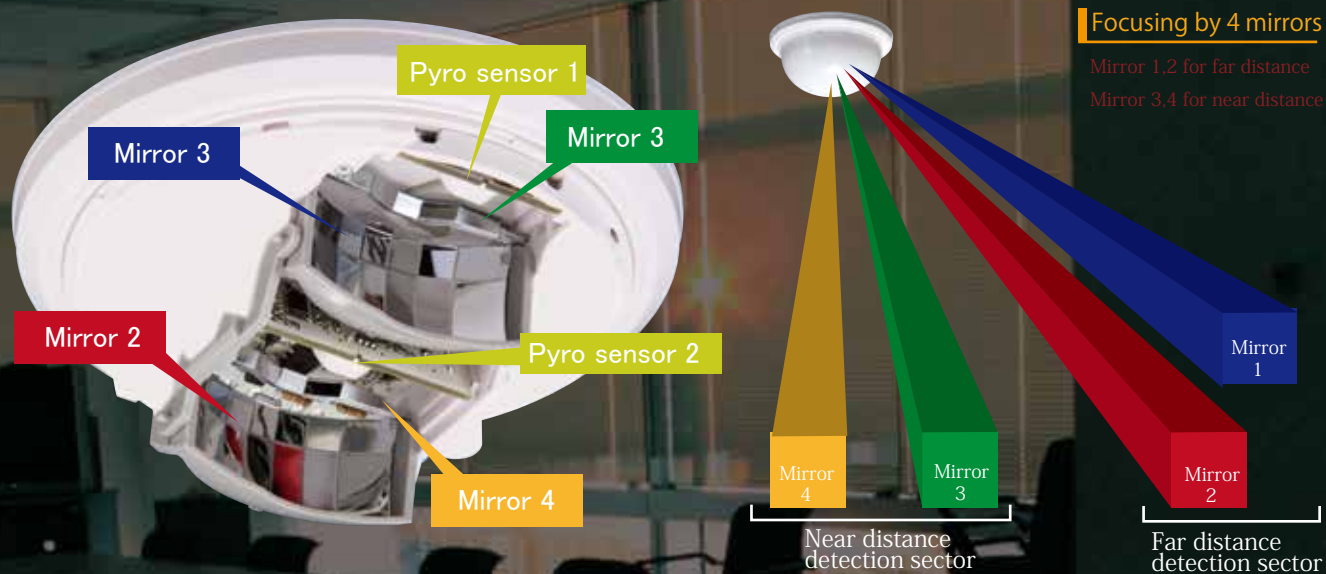
ZERO Watcher

PIR detector IR81A IR82A

Patent pending

What is 4 mirrors system ?

Unique zone structure and signal process algorithm by 2 Pyro sensors & 4 Mirrors.



Focusing by 4 mirrors

Mirror 1,2 for far distance
Mirror 3,4 for near distance

Adapt to the various installation environment by separating the near and far detection distance.

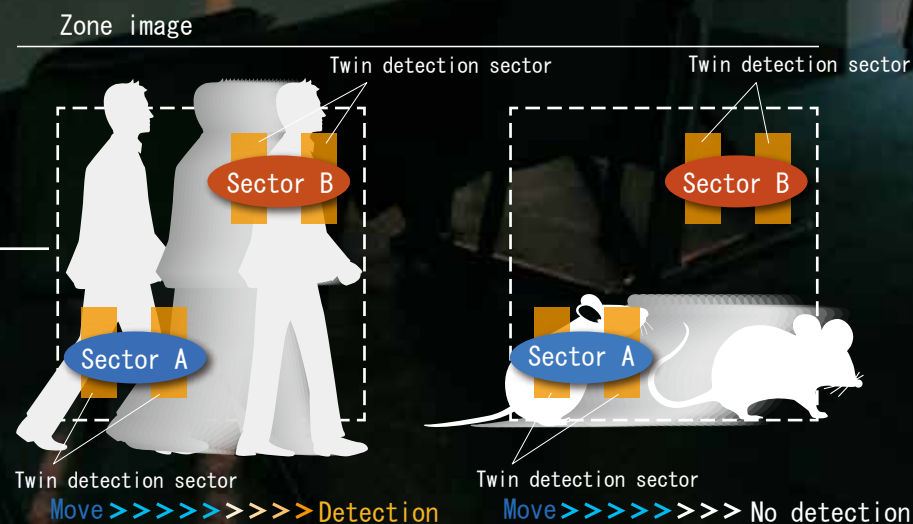
Patent No. 4222482

Atsumi unique zone structure and detection algorithm

False alarm countermeasures by the zone configuration.

It does not detect small animals by arranging A and B sectors obliquely, and taking wide distance between A and B sectors.

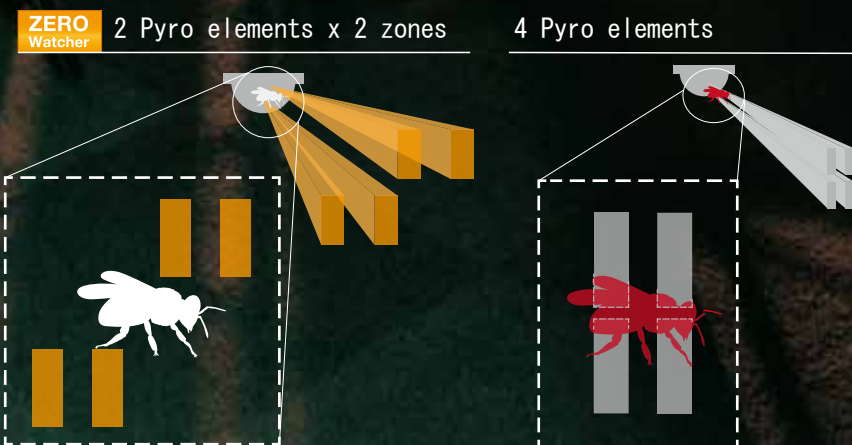
Sector A **Sector B**
When the large object moves certain distance, Alarm output



False alarm countermeasures around the detector.

It does not detect insects by taking wide distance between A and B sectors.

White insect : No alarm
Red insect : Alarm

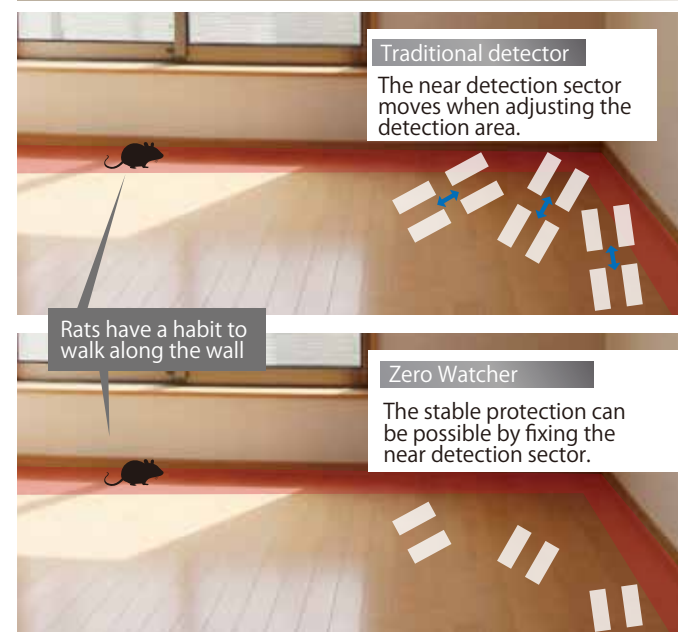


False alarm countermeasures by 4 mirror system

Patent pending

IR 81

Efficiency by fixing the near distance zone



Efficiency by adjusting the near distance zone

In case obstacles are beneath the detector
Invalidity of the near detection sector beneath the detector is possible. It is possible to respond sudden ray out change.

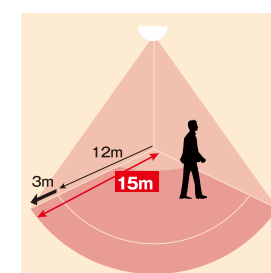
High mount installation (4m)



New functions of ZERO WATCHER

IR 81 IR 82

Extra wide mode



Protection range can be extended

IR81A : 12m → 15m
IR82A : 20m → 25m

Active in the access control system



Alarm output time is selectable, 1 or 2 sec. It can be used for the access control system.

Intimidation effect up by quick reaction

Evolution from our conventional products

IR 81 IR 82

More compact

25mm smaller than the conventional model. It adapts various sites as it is inconspicuous and easy to blend into the back ground.

Seal tight

Eliminate a gap of the cover and body thoroughly and does not allow the invasion of insects and wind which is a factor of false alarms.



One-touch installation

The body is removed from the base easily so that the installation and adjustment is easy. Large base (option) adopts easy detachable method.

Tamper

It is possible to fix the release button by the lock screw so that not to be able to remove the body without the use of a tool.